ScummVM Documentation

CadiH

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Welcome to ScummVM!

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43.2 Advanced topics

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43.4 What's changed since I was last here?

43.5 The ScummVM Project
This page explains how to install ScummVM on a computer. For all other platforms, see the relevant platform guide.

**Windows**

There are two ways to install ScummVM on Windows: use the installer, or install manually.

**Installing ScummVM using the installer**

Download the Windows installer for your operating system from the [ScummVM downloads page](https://www.scummvm.org/getting-started/windows), and double click the downloaded file. The installer guides you through the install process, and adds a shortcut to the Start Menu. There is also an option to add a shortcut to the desktop.

To run ScummVM, either navigate to desktop and double click the ScummVM shortcut, or go to Start > All Apps > ScummVM. For Windows XP, go to Start > All Apps > ScummVM.

**Installing ScummVM manually**

Download the Windows zip file for your operating system (32bit or 64bit). To extract the files, right-click the folder and select **Extract All**.

To run ScummVM from the extracted folder, find the `scummvm.exe` file and double click it.

**macOS**

**Installing ScummVM using the disk image**

Download the recommended disk image file from the [ScummVM downloads page](https://www.scummvm.org/getting-started/mac). After the download has completed, double click the file to mount the disk image file. A window containing the ScummVM icon opens. Drag this icon into your Applications folder to install ScummVM.

To run ScummVM, click on the icon in the Applications folder.

---

**Note:** macOS includes technology called Gatekeeper, which checks to ensure only trusted software is run on your Mac. ScummVM is not available from the App Store, so follow the steps on this [Apple support page](https://support.apple.com) to allow ScummVM to run.

**Linux**

There are multiple ways to install ScummVM on Linux: use the Snap Store, Flathub or the software repository, or manually install the release binary.

**Installing ScummVM using the Snap Store**

A Snap is an app that is bundled with its dependencies, which makes the install on any Linux operating system very easy. Snap comes pre-installed on Debian and Ubuntu-based distributions, but can be installed on any Linux distribution by following the instructions on the [Snapcraft website](https://snapcraft.io).

The ScummVM Snap comes with a selection of freeware games and demos pre-loaded.
Enter the following on the command line to install the ScummVM Snap:

```
sudo snap install scummvm
```

To run ScummVM, enter `scummvm` on the command line, or launch ScummVM through the desktop interface by clicking **Menu > Games > ScummVM**.

Installing ScummVM using Flathub

Flathub is another way to install apps for Linux, by using Flatpak. Flatpak comes standard with Fedora-based distributions, but can be installed on any Linux operating system. The Flathub website has excellent install instructions.

When Flatpak is installed, enter the following on the command line to install ScummVM:

```
flatpak install flathub org.scummvm.ScummVM
```

Some distributions have the option to install Flatpaks through the graphical desktop interface. Navigate to the ScummVM Flatpak page, click the **INSTALL** button and then follow the install process.

To run ScummVM, enter the following on the command line:

```
flatpak run org.scummvm.ScummVM
```

To pass **Command line arguments**, add them after the Flatpak **run** command.

**Note:** The Flatpak version of ScummVM is sandboxed, meaning that any games need to be copied into the Documents folder to be accessible by ScummVM.

Installing ScummVM using the software repository

ScummVM is found in the software repositories of many Linux distributions.

**Caution:** The repositories might not contain the most up-to-date version of ScummVM.

To run ScummVM, enter `scummvm` on the command line, or launch ScummVM through the desktop interface by clicking **Menu > Games > ScummVM**.

Installing ScummVM using the release binaries

Binary packages are only released for Debian and Ubuntu. On the ScummVM downloads page, find and download the ScummVM package that corresponds to your operating system and architecture. To install a DEB package, either double click on the downloaded DEB file to use the graphical installer, or, if that’s not available, use the command line.
sudo apt install /path/to/downloaded/file.deb

Replace /path/to/downloaded/file.deb with the actual path to the downloaded DEB package. The APT software manager handles the installation.

To run ScummVM, enter `scummvm` on the command line, or launch ScummVM through the desktop interface by clicking **Menu > Games > ScummVM**.
Chapter 1

Understanding the interface

1.1 The Launcher

The main ScummVM window is called the Launcher. The Launcher opens whenever you start ScummVM, unless you launch a game directly from the command line.

1.1.1 The games list

The pane on the left is the games list, which lists all the games that have been added to ScummVM. The games list usually offers some additional information about each game, such as original platform and language. To highlight any game on the list, type the first letter(s) of its title, or click on it.

1.1.2 The search box

The search box lets you filter the games list. It is located at the top of the page next to the magnifying glass icon. The filter is applied as you type, and is not case sensitive. To clear the filter, click X.

There are many ways to filter games. For example, you can type “Monkey Island” to locate all “Monkey Island” games on the list, or you can type “German” to find German games.

1.1.3 The buttons

To the right of the games list there are a number of buttons. Their functions are as follows:
Fig. 1: The Launcher, with labels for each GUI element.
Start

Launches the highlighted game.

Load

Opens the load game window, from which you can go to a saved game without having to start the game first.

See the *Saving and loading a game* page.

Add Game

Opens a file browser. To add a game, select a folder containing game files.

See the *Adding and playing a game* page.

Edit Game

Opens the game settings window. This window also opens whenever a game is added to the games list in the Launcher.

Use this window to configure settings specific to a game. These settings override the global settings. For more information, see the *Changing settings* page.

Remove Game

Removes the highlighted game from the list. This does not remove any saved games, so if you add a game to the games list again, you are able to resume where you left off.

Options

Opens the global settings window. Use this window to define global game settings, as well as change a number of the ScummVM Launcher settings. For more information, see the *Changing settings* page.

About

Shows credits and miscellaneous information about ScummVM.
Quit

Closes the Launcher and quits the ScummVM application.

1.2 The Global Main Menu

You can access the ScummVM Global Main Menu, also known as the GMM, while you are playing a game. To open the GMM, press Ctrl+F5 (Ctrl+fn+F5 on a Mac).

![Fig. 2: The Global Main Menu, or GMM.](image-url)
1.2.1 The buttons

In the Global Main Menu there are a number of buttons. Their functions are as follows:

Resume

Closes the GMM and resumes the game.

Load

Opens the load game window. From here, you can load a saved game.

Save

Opens the save game window. From here, you can save a game.

Options

Opens a dialog which provides some gameplay options, such as sound volume, subtitle and keymap settings.

About

Displays the ScummVM About dialog. This is also available from the Launcher.

Help

Displays a list of keyboard shortcuts for the game.

Return to Launcher

Quits the game and returns to the Launcher.

Note: This is not available for all games.
Quit

Quits the game and ScummVM, and returns to the operating system. Any unsaved game progress is lost.
Chapter 2

Handling game files

ScummVM needs access to the data files for each game. A list of required data files for each game is found on the wiki entry [https://wiki.scummvm.org/index.php?title=Category:Supported_Games] for that game. ScummVM can run the game data files from any directory it has access to, including external media.

**Note:** For ease of use, you can create a dedicated games folder into which folder containing game files can be copied. The resulting directory structure will look somewhat like this:

```
ScummVM Games
|-- Day of the Tentacle
 |   |-- MONSTER.SOU
 |   |-- TENTACLE.000
 |   `-- TENTACLE.001
|-- Flight of the Amazon Queen
 |   |-- QUEEN.1
 |   `-- queen.tbl
```

For games on floppies or CDs, if the data files are accessible, the external media can be accessed directly by ScummVM. Alternatively, copy the game files to a folder as described above. If the data files are not accessible, run the installer on the platform the game was designed for, to extract the game files.

For games downloaded from digital distributors or from various freeware sources run the installer to extract the data files, or if the data files are supplied as a zip file, extract the files.

For macOS or Linux users without access to a Windows machine, you can get the data files from games that only have Windows installers. Use Wine to run the Windows installer. Alternatively, for GOG.com games, use innoextract to unpack game files from the installer without actually running it.

**Tip:** Use ScummVM’s Cloud functionality to share game files and automatically back up and sync your saved game states. For detailed instructions see the [Connecting a cloud service] guide. For devices on the same local network, ScummVM can also run a web server to allow hassle-free
transfer of files. For detailed instructions, see the *Using the local web server* guide. This is a good option if you do not wish to connect a Cloud service.

### 2.1 Multi-disc games

ScummVM needs access to all the data files, so it will not be able to run directly from a CD if the game has multiple discs. To add a multi-CD game, copy the required data files from the CD to a folder on your hard drive. For a list of required files, see the wiki entry <https://wiki.scummvm.org/index.php?title=Category:Supported_Games> for the game you’re playing.

As a general guideline, where there are duplicate, identical files (same name, same file size) on more than one disc, only one copy of the file is required. Where there are files that have the same name but are different on each disc, rename them. For example, where there is a `music.clu` on two discs, rename the file on the first disc to `music1.clu` and the file on the second disc to `music2.clu`.

### 2.2 CD audio

In most cases, ScummVM can use CD audio directly from the game CD. If you don’t always want to insert the game CD to use the CD audio, you can extract the audio tracks from the CD and save them locally:

1. Extract the CD audio tracks in WAV or AIFF format.
2. Convert the tracks to either MP3, FLAC or OGG file formats.
3. Place the converted audio files in the same folder that contains the other game datafiles.

**Tip:** *fre:ac* is a multi-platform, open-source software, with the ability to both rip CDs and convert audio between MP3, OGG, FLAC and WAV file formats.

### 2.3 Macintosh games

All LucasArts SCUMM games also exist in versions for the Macintosh. Most of the newer games shipped with only a single data file; ScummVM can use this file like it does any other data file. Some discs shipped with hidden files. To view hidden files in macOS, press `Cmd+Shift+` in a Finder window.

Mac uses a different file system to other systems (HFS+), so to access the CD or floppy disc on a Windows or Linux system you need additional software to view and copy the files.

For Windows, *HFS Explorer* is a basic and free option, which gives you read-only access to HFS drives. Use the installer rather than the zip file, to ensure it is installed correctly.

For Linux, *hfsplus* gives you read-only access to HFS drives. To use hfsplus, use the command line:
1. Install hfsplus using the software manager. On Debian-based distributions, use `sudo apt install hfsplus`.

2. Find the game disc by running `sudo fdisk -l` and finding the one with type Apple HFS/HFS+.
   In this example, this is `/dev/fd0`.

3. Create a mount point, for example: `sudo mkdir /media/macgamedrive`

4. Mount the device to that mount point: `sudo mount -t hfsplus /dev/fd0 /media/macgamedrive`

5. Access the device at `/media/macgamedrive`.

2.3. Macintosh games
Chapter 3

Adding and playing a game

3.1 Where to get the games

One of the most frequently asked questions is, “Where do I get the games?!?”. If you still have your old floppy discs or CDs lying around, and have a way to read them, then you can use the game files from those original discs.

If you haven’t had a floppy disc or even a CD in your possession for a while, there is a ScummVM wiki page dedicated to helping you find some games to play.

Tip: ScummVM has an affiliate referrer programme with GOG.com, so if you are going to buy a game, please use this GOG.com link to help the project!

Make sure to check out the compatibility list on the ScummVM website, and the Supported Games page and Platform Overview page on the ScummVM wiki before you buy a game, to ensure it can run with ScummVM.

3.2 Adding games to the Launcher

The following steps explain how to add a game to ScummVM, and assume you have access to the data files for each game. If you’re not sure how to access the game data files, see the Handling game files page.

1. Run ScummVM to open the Launcher.

2. In the Launcher window, click Add Game. This opens a file browser; either the system file browser or the ScummVM file browser.
To add multiple games at once, click the expander arrow next to Add Game, and select Mass Add.
3. Use the file browser to locate the folder containing the game data files. For the ScummVM file browser: Double click on a folder to open it, and use **Go up** to go back up one level. Highlight the folder by clicking on it, and then click **Choose**
Note: The **Use Native file browser** option in the **Misc** tab of the global settings controls whether ScummVM uses the system file browser, or its own file browser.

If you are using **Mass Add**, select **Yes** to run the mass game detector. A dialog opens to advise which games were added to the games list.
Do you really want to run the mass game detector? This could potentially add a huge number of games.
Sometimes, ScummVM detects multiple versions of a single game. In this case, highlight the correct version and click **Choose** to continue.

**Caution:** If you are using **Mass Add**, ScummVM adds all versions of a game.

If you are adding an unknown version of a game, ScummVM is not able to add the game to the games list. An error message appears to warn you that the game has not been added.

4. The **Edit Game** dialog opens to allow configuration of various settings for the game. These can be reconfigured at any time, but for now everything should be OK at the default settings. Any settings changed here override the global settings. Click **Ok**.
3.2. Adding games to the Launcher

Pick the game:

Mission Supernova 1 (DOS/German)
Mission Supernova 1 (DOS/English)
Mission Supernova 1 (DOS/Italian)

Options...  
About...  
Quit
Note: The Edit Game dialog does not open when Mass Add is used.

6. Games are now ready to play! To play, highlight a game in the games list and click Start, or double-click the game in the games list.

Games can also be launched directly from the command line. For more information, see the Command line options page.
3.3 A note about copyright

ScummVM has a strict anti-piracy stance and the team will not tolerate discussions around pirated games in any part of the project, including on the Forum or on Discord.

3.3.1 Copy protection screen

There are cases where the game companies themselves bundled ‘cracked’ executables with their games. In these cases the data files still contain the copy protection scripts, but the interpreter bypasses them; similar to what an illegally cracked version might do, only that here the producer of the game did it. There is no way for ScummVM to tell the difference between legitimate and pirated data files, so for the games where a cracked version of the original interpreter was sold at some point, ScummVM has to bypass the copy protection.

In some cases ScummVM still shows the copy protection screen. Enter any answer; chances are that it will work.
Chapter 4

Saving and loading a game

This page explains how to save and load a game from the Global Main Menu, or load a game directly from the Launcher.

Note: Some games use their own load or save entry points within the game, or use their own menu instead of the GMM.

4.1 Saving a game

When you’re playing a game and you’re ready to save, press Ctrl+F5 (Ctrl+fn+F5 on a Mac) to access the Global Main Menu. Select Save.

There are two views: list view and tile view. Click the list and tile icons at the bottom left of the window to toggle between the two.

In tile view, click on the New Save tile. Enter a description for the game, then click OK.

In list view, click on a slot to save the game to that slot. Enter a description for the game, then click Save.

4.1.1 Autosave

ScummVM automatically saves your game every 5 minutes. The autosave period can be changed in the Misc settings tab, or in the configuration file.
Fig. 1: The Global Main Menu (GMM).
Fig. 2: Saving a game, tile view.
Fig. 3: Save game description, tile view.
Fig. 4: Saving a game, list view.
4.2 Location of saved game files

The save directory can be changed with the savepath setting in the Paths tab. It can also be changed in the configuration file.

Default saved game paths are shown below.

Windows

Windows NT4
C:\WINDOWS\Profiles\username\Application Data\ScummVM\Saved games\
Windows 2000/XP
\Documents and Settings\username\Application Data\ScummVM\Saved games\
Window Vista/7/8/10
%APPDATA%\ScummVM\Saved games

macOS

~/Documents/ScummVM Savegames/

Linux/Unix

ScummVM follows the XDG Base Directory Specification, so by default the saved games can be found at ~/.local/share/scummvm/saves/, but this location might vary depending on the value of the XDG_DATA_HOME environment variable.

.local is a hidden directory. To view it use ls -a on the command line.

If ScummVM was installed using Snap, the saves can be found at ~/snap/scummvm/current/.local/share/scummvm/saves/

4.3 Loading a game

If you want to load your saved game without having to start the game first, select the Load button directly from the Launcher. To load a saved game while you're playing a game, press Ctrl+F5 (Ctrl+fn+F5 on a Mac) to access the Global Main Menu, then select Load.

There are two views: list view and tile view. Click the list and tile icons at the bottom left of the window to toggle between the two.

In list view, the pane on the left shows a list of your saved games. Click on a saved game to highlight it. In the pane on the right you can see timestamps, screenshots and playtime for that saved game. Once you have highlighted the game you want to play, click Load.
To delete a saved game, highlight the saved game and click **Delete**.

![Fig. 5: Loading a game, list view.](image)

In tile view, each tile shows a screenshot of the saved state, as well as a description and a save slot number. Click on the tile to load that saved game.
Fig. 6: Loading a game, tile view.
Chapter 5

Keyboard shortcuts

ScummVM supports various in-game keyboard and mouse shortcuts, and since version 2.2.0 these can be manually configured in the Keymaps tab, or in the configuration file.

For game-specific controls, see the wiki entry for the game you are playing.

Default shortcuts are shown in the table.

<table>
<thead>
<tr>
<th>Shortcut</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ctrl+F5</td>
<td>Displays the Global Main Menu</td>
</tr>
<tr>
<td>Cmd+q</td>
<td>Quit (macOS)</td>
</tr>
<tr>
<td>Ctrl+q</td>
<td>Quit (Linux/Unix)</td>
</tr>
<tr>
<td>Alt+F4</td>
<td>Quit (Windows)</td>
</tr>
<tr>
<td>Ctrl+z</td>
<td>Quit (other platforms)</td>
</tr>
<tr>
<td>Ctrl+u</td>
<td>Mutes all sounds</td>
</tr>
<tr>
<td>Ctrl+m</td>
<td>Toggles mouse capture</td>
</tr>
<tr>
<td>Ctrl+Alt+ 1-8</td>
<td>Switches between graphics filters</td>
</tr>
<tr>
<td>Ctrl+Alt and + or -</td>
<td>Increases/decreases the scale factor</td>
</tr>
<tr>
<td>Ctrl+Alt+a</td>
<td>Toggles aspect ratio correction on/off</td>
</tr>
<tr>
<td>Ctrl+Alt+f</td>
<td>Toggles between nearest neighbor and bilinear interpolation (graphics filtering on/off)</td>
</tr>
<tr>
<td>Ctrl+Alt+s</td>
<td>Cycles through stretch modes</td>
</tr>
<tr>
<td>Alt+Enter</td>
<td>Toggles full screen/windowed mode</td>
</tr>
<tr>
<td>Alt+s</td>
<td>Takes a screenshot</td>
</tr>
<tr>
<td>Ctrl+F7</td>
<td>Opens virtual keyboard (if enabled). This can also be opened with a long press of the middle mouse button or wheel.</td>
</tr>
</tbody>
</table>
Chapter 6

Changing settings

6.1 From the Launcher

The settings are arranged by subject, on different tabs:

- Game tab
- Engine tab
- Graphics tab
- Control tab
- Keymaps tab
- Audio tab
- Volume tab
- Midi tab
- MT-32 tab
- Paths tab
- Misc tab
- Cloud tab
- LAN tab
- Accessibility tab

To change a setting globally, so that it affects all games, select Options and then select the tab containing the setting you would like to change.

To change a setting for just one game, highlight the game in the games list, then select Edit Game and select the tab containing the setting you would like to change. To make the game use the settings on that tab instead of the global settings tab, tick Override global settings.

Not all settings are available for all games; for example, where there is no MIDI soundtrack for a game, there will be no MIDI or MT-32 tabs.

6.2 In the configuration file

See the configuration file page for more information on how to do this. Configuration keys are listed in the Settings pages, after the description of each setting, in italics.
Chapter 7

Connecting a cloud service

Connecting ScummVM to a cloud storage service provides an easy way of sharing game files and saved games between multiple devices. ScummVM currently supports Dropbox, OneDrive, Google Drive and Box, although only one service can be connected at any one time.

Note: Cloud functionality is not supported on all platforms.

This guide explains how to connect a cloud service to ScummVM.

From the Launcher, select Options, click the > scroll arrow until the Cloud tab is visible, and then select the Cloud tab.

Select your preferred cloud storage service from the Active storage dropdown.

Click on the link shown at 1., and sign in to your cloud storage account. A 6-digit code is displayed after you sign in.

Warning: Do not share this 6-digit code with anyone before you connect your cloud storage account.

For devices without a web browser, navigate to the following ScummVM links on a computer or any other device with a web browser:

Dropbox | OneDrive | Google Drive | Box

Copy the 6-digit code, click into the empty field next to Paste, and then click Paste. Alternatively, for devices without a web browser, manually enter the 6-digit code.

Click 3. Connect. After the next page loads, click Enable storage.

Saved games sync automatically on launch, when a game is saved, and when a saved game is loaded. Select Sync now to manually sync.

To download game files from your cloud ScummVM folder, click Download game files.
Please enter the following code in ScummVM: f5TcgY
This storage is not connected yet! To connect,
1. Open this link: [https://cloud.scummvm.org](https://cloud.scummvm.org)
2. Get the code and enter it here:
   - Paste
3. Connect
4. Storage is not yet enabled. Verify that username is correct and enable it:

Enable storage

Username: <syncing...>  Used space: 0 B

Last sync: <right now>

Saved games sync automatically on launch, after saving and on loading.

You can download game files from your cloud ScummVM folder.
To change to a different cloud account, or to disconnect your cloud account from ScummVM, click **Disconnect**.
Chapter 8

Using the local web server

ScummVM can run a local web server (LAN), to simplify the transfer of game files, saved games and configuration files between devices on the same network. This is a good option if you do not want to use the Cloud, or if ScummVM for your platform does not have cloud functionality.

Note: LAN functionality is not supported on all platforms.

This guide explains how to set up and run a local web server.

From the Launcher, select **Options**, click the > scroll arrow until the LAN tab is visible, and then select the **LAN** tab.

Click **Run server** to start the server.

To access the server, type the URL shown into the address bar of any web browser:

To download a file, click on the file to open the system download dialog.

To create a new directory, click **Create Directory**.

To upload files, click **Upload Files** and select files from the system file browser.

To change which files are accessible on the web server, set the */root/ Path* to the directory containing the files you wish to access. You can access anything inside that directory, but you cannot access its parent directory. On some platforms ScummVM automatically sets the */root/ Path*, but on some other platforms you need to configure this manually before running the web server for the first time.

To stop the web server, click **Stop server** to stop the server, or click **Ok** to close the settings dialog.
Fig. 1: The LAN tab, with the server running.
Fig. 2: The server's browser interface.
Fig. 3: Create a new directory.
Fig. 4: Upload files.
Chapter 9

Taskbar integration

The taskbar integration has several features:

- Adds an overlay icon in the taskbar/dock when running a game (Windows and macOS)
- Updates a list of recently played games that can be started from the taskbar/dock (Windows and macOS).
- Shows a progress bar when doing a mass add of games, and shows the number of games found at the end (Windows, macOS and Linux).
- Shows an error state in the taskbar if an error occurs when running a game (Windows only).

9.1 Setting up the icon overlay

Icons for many games can be found on our Github repository.

Place the icons in a folder, and either change the `iconspath` in the configuration file to point to this folder, or add the folder to the Extra Path on the Paths settings tab.

The icon files must be ICO files for Windows, or PNG files for macOS. They must follow one of these naming conventions, where `xxx` is the file extension:

- `ID.xxx`
- `gameid.xxx`
- `engineid.xxx`
- `engineid-gameid.xxx`

To find the gameid and the engineid, open the configuration file. The game entry will be similar to this:

```
[lure]
description=Lure of the Temptress (VGA/DOS/English)
iconspath=/Users/user/games/icons
path=/Users/user/games/lure
```

(continues on next page)
9.2 Launching recently played games

To start a recently played game, right click on the ScummVM icon in the taskbar or dock, and select the game you want to play.
Chapter 10

AmigaOS 4

This page contains all the information you need to get ScummVM up and running on AmigaOS 4.

10.1 What you’ll need

- A system running Amiga OS 4

10.2 Installing ScummVM

ScummVM is available for download from the ScummVM Downloads page or the OS4 Depot. Download and extract the `.lha` file.

Run the extracted `ScummVM_Install` script. This installer guides you through the installation process.

To automatically keep ScummVM up to date through AmiUpdate, run the `Autoinstall` script.

10.3 Transferring game files

For games on PC or Mac formatted discs, use the original platform to access the data files, and then transfer these to Amiga. Alternatively, if you have external hardware such as a Catweazel floppy disc controller, you might be able to use this to access the files.

ScummVM for Amiga OS has Cloud and LAN functionality, to help manage the transfer of files. See Connecting a cloud service and Using the local web server.

See Handling game files for more information about game file requirements.
10.3. Transferring game files

Fig. 1: The ScummVM installer.
10.4 Controls

Controls can be manually configured in the Keymaps tab. See the Keyboard shortcuts page for common default keyboard shortcuts.

10.5 Paths

10.5.1 Saved games

Games:ScummVM/saves

10.5.2 Configuration file

Games:ScummVM/scummvm.ini

10.6 Settings

For more information about Settings, see the Settings section of the documentation. Only platform-specific differences are listed here.

10.6.1 Audio

The CAMD driver allows the use of MIDI hardware. Select CAMD as the Preferred device.

10.7 Known issues

Due to the big-endian nature of Amiga OS, there can sometimes be graphics and sounds issues with games. Check out the Platform Overview wiki page for a list of compatible engines.

If a game crashes and it's listed as compatible, report it as a bug.
Chapter 11

Android

This page contains all the information you need to get ScummVM up and running on an Android device.

11.1 What you’ll need

- An Android device running Android 4.1 (Jelly Bean) or newer.

Note: ScummVM has been tested to work up to Android 10. Currently there are some file browsing limitations with Android 11. The ScummVM team are working to resolve these.

11.2 Installing ScummVM

There are two ways to install ScummVM on an Android device; install it from the Google Play Store, or manually download and install the APK package from the ScummVM downloads page.

11.2.1 Installing from the Google Play Store

The latest supported version of ScummVM is on the Google Play Store; search for ScummVM on the Google Play Store and select Install.
11.2.2 Manually installing the APK package

On your device, use a web browser app to navigate to the ScummVM downloads page. The recommended download section on the page suggests the correct .apk package, however if it does not, scroll down to select the correct package.

**Tip:** To find the correct package for your device, find out whether the device has a 32 or 64-bit operating system, and which chipset the device has. Do an internet search using the device model number to find these details.

Click on the correct package to start the download. After it has downloaded, go to the file and tap on it to start the install process. Use either a file manager app, or select the file directly from the web browser downloads. The file manager or the web browser asks for permission to install the package, and after permission is granted, returns to the install.

**Note:** The downloaded APK package is treated as an app from an unknown source, because it doesn't originate in the Google Play store. To allow unknown apps:

- For Android 7 or lower, go to Settings > Security > Device Administration, scroll down to Device Administration and enable Unknown Sources.
- For Android 8 or higher, go to Settings > Apps and Notification and select Install Unknown Apps.

11.3 Transferring game files

Transfer all the required game data files to your device, into a folder accessible by the ScummVM app.

ScummVM has built-in Cloud functionality, which lets you connect your Google Drive, OneDrive, Box or Dropbox account. For more information, see the Connecting a cloud service page. ScummVM also has the ability to run a local web server. For more information, see the Using the local web server page.

There are a few other options to transfer the game files:

- Copy the files directly onto the microSD card, if the device has one.
- USB transfer from a computer. To complete file transfer by USB cable, tap the Charging this device via USB notification when the device is connected. Select Use USB for and then File Transfer. An Android File Transfer window opens.
- Download games such as freeware games or those from digital distributors directly to your device.

See Handling game files for more information about game file requirements.
## 11.4 Controls

### 11.4.1 Default control mapping

Controls can also be manually configured in the Keymaps tab. See the Keyboard shortcuts page for common keyboard shortcuts.

<table>
<thead>
<tr>
<th>Touch screen control</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>One finger tap</td>
<td>Left mouse button click</td>
</tr>
<tr>
<td>One finger tap + movement</td>
<td>Mouse movement</td>
</tr>
<tr>
<td>One finger tap and hold for &gt;0.5s</td>
<td>Right mouse button click</td>
</tr>
<tr>
<td>One finger tap and hold for &gt;1s</td>
<td>Middle mouse button click</td>
</tr>
<tr>
<td>Double tap + movement</td>
<td>Left mouse button hold and drag, such as for selection from action wheel in Curse of Monkey Island</td>
</tr>
<tr>
<td>Two finger tap</td>
<td>Right mouse button click</td>
</tr>
<tr>
<td>Two finger tap + movement of second finger</td>
<td>Right mouse button hold and drag, such as for selection from action wheel in Tony Tough</td>
</tr>
<tr>
<td>Three finger tap</td>
<td>Middle mouse button click</td>
</tr>
<tr>
<td>Three finger tap + movement of third finger</td>
<td>Middle mouse button hold and drag</td>
</tr>
<tr>
<td>Long press system Back button</td>
<td>Opens Global Main Menu</td>
</tr>
<tr>
<td>Short press system Back button</td>
<td>Skip, or Cancel/Quit in the Launcher</td>
</tr>
<tr>
<td>Long press system Menu button</td>
<td>Opens/closes Virtual keyboard</td>
</tr>
<tr>
<td>Short press system Menu button</td>
<td>Opens Global Main Menu</td>
</tr>
<tr>
<td>Small keyboard icon (top right)</td>
<td>Opens/closes Virtual keyboard</td>
</tr>
<tr>
<td>D-pad up/down/left/right</td>
<td>Mouse movement</td>
</tr>
<tr>
<td>D-pad center</td>
<td>Left mouse button click</td>
</tr>
<tr>
<td>Trackball movement</td>
<td>Mouse movement</td>
</tr>
<tr>
<td>Trackball click</td>
<td>Left mouse button click</td>
</tr>
</tbody>
</table>
11.4.2 Touch controls

The touch control scheme can be switched in the global settings. From the Launcher, go to Options > Backend > Touchpad mouse mode.

- When touchpad mouse mode is off (default), the touch controls are direct. The pointer jumps to where the finger touches the screen.
- When touchpad mouse mode is on, the touch controls are indirect. The finger can be far away from the pointer and still move it, like on a laptop touchpad.
- The pointer speed setting in the Controls tab affects how far the pointer moves in response to a finger movement.

Two finger tap

To do a two finger tap, hold one finger down and then tap with a second finger.

Three finger tap

To do a three finger tap, start with holding down one finger and progressively touch down the other two fingers, one at a time, while still holding down the previous fingers. Imagine you are impatiently tapping your fingers on a surface, but then slow down that movement so it is rhythmic, but not too slow.

Immersive Sticky fullscreen mode

ScummVM for Android uses the Immersive Sticky fullscreen mode, which means that the Android system bar is hidden until the user swipes from an edge with a system bar. Swipe from the edge to reveal the system bars. They remain semi-transparent and disappear after a few seconds unless you interact with them. Your swipe also registers in the game, so if you need to swipe from an edge with system bars, your game play is not interrupted.

Virtual keyboard

To open the virtual keyboard, tap on the small keyboard icon at the top right of the screen, or tap on any editable text field. To hide the virtual keyboard, tap the small keyboard icon again, or tap outside the text field.

To display or hide the small keyboard icon, from the Launcher select Options and then the Backend tab. Tick the Show on-screen control box to enable the keyboard icon.
11.5 Paths

11.5.1 Saved games

By default, the saved games are saved in the internal app folder. To change the path, go to the Paths tab in either the global or game-specific settings.

11.5.2 Configuration file

The configuration file is in the internal app folder, and this path cannot be changed.

11.5.3 Accessing the internal app folder

To access the internal app folder, use ScummVM's built-in LAN functionality:

1. From the Launcher, select Options and then the LAN tab.
2. Select /root/Path.
3. Use the file browser to Go up to the root of the ScummVM internal app folder.
4. Select the ScummVM data (int) shortcut, and tap Choose.
5. Run the server to access the scummvm.ini configuration file.

For more information, see the Using the local web server page.

11.6 Known issues

- On some newer devices, there is an issue if the saved path is outside the app's internal (or external) storage. The ScummVM team is currently working on a fix.

- If ScummVM is uninstalled or downgraded, its internal and external app spaces are fully deleted. If you want to keep saved games use ScummVM's cloud or LAN functionality to keep those files. Alternatively, change the saved game path to a shared location such as an SD card.
Chapter 12

Atari/FreeMiNT

This page contains all the information you need to get ScummVM up and running on an Atari system.

12.1 What you’ll need

- A powerful Atari system or clone; recommended minimum CPU 68060.
- FreeMiNT, TOS or MagiC operating system.

12.2 Installing ScummVM

Binary packages are provided for the m68000 CPU, the m68020 to m68060 range of CPUs, and the Coldfire (FireBee) CPU. All are available for download from the ScummVM Downloads page. To install ScummVM, extract the selected ScummVM archive into a folder on the hard disk.

Run `scummvm.gtp` to start Scummvm. The `scummvm.gtp` command will take command line options to set parameters for the ScummVM session.

To run ScummVM from a FreeMiNT Command Line Interface, make the program executable with the following command:

```
chmod +x scummvm.gtp
```

For the best performance, run ScummVM under FreeMiNT, from the command line, and without the AES started.
12.3 Transferring game files

Transfer files to the Atari as you normally would, such as through a network connection or by optical disc.
See Handling game files for more information about game file requirements.

12.4 Controls

Controls can be manually configured in the Keymaps tab. See the Keyboard shortcuts page for common keyboard shortcuts.

12.5 Paths

12.5.1 FreeMiNT

Saved games and the configuration file are found in the user's defined home directory.

12.5.2 MagiC/TOS

Saved games and the configuration file are found in the ScummVM installation directory.

12.6 Settings

For more information, see the Settings section of the documentation. Only platform-specific differences are listed here.

12.6.1 Graphics

For video rendering, define the variable SDL_VIDEODRIVER=XBIOS in your environmental variables. Either XBIOS or GEM might be set by default. This is not a ScummVM setting, but rather a system-wide setting.

Tip: XBIOS works better than GEM, because GEM rendering is generally slower.
12.6.2 Audio

Supported audio file formats:

- MP3
- OGG
- FLAC
- Uncompressed audio

12.7 Known issues

- There is no cloud/LAN functionality.
- The Atari built-in MIDI driver (STMIDI) does not work.
- FLAC, OGG and MP3 decoding libraries are extremely CPU intensive and greatly slow down the user experience. ScummVM is best run with uncompressed audio, when available.
- While all supported engines are included in the Atari ScummVM release, not all games will run well due to the lack of resources. For example, the Curse of Monkey Island will run on a CT60-equipped Atari Falcon, but very poorly.
Chapter 13

iOS

This page contains all the information you need to get ScummVM up and running on an iOS device.

13.1 Installing ScummVM

There are two ways to install ScummVM on an iOS device, and the method you use depends on whether or not the device has custom firmware installed.

13.1.1 Devices without custom firmware

To installing ScummVM on an iOS device without custom firmware you need to build the app from the source code, and then install it on your device. While a basic knowledge of the command line would be useful, the following instructions, if followed carefully, can be completed by anyone.

What you'll need

- A Mac computer with Xcode installed. Xcode is a free App, available from the Mac App Store.
- An Apple Developer account. You can sign up for a free account on the Apple Developer Member Center with your Apple ID.
- The ScummVM iOS Libraries downloaded, and the zip file extracted.

Note: If you have a free Apple developer account, each build will only be valid for 7 days, which means you will need to repeat these steps and rebuild ScummVM every week.
Step 1: Setting up the Xcode project

The first step is to download the repository containing the code required to build the app. The next steps require use of the command line. Go to Applications > Utilities > Terminal and copy and paste the following, then press return. This downloads (clones) the source code into your Home directory, into a folder called scummvm:

```
git clone --depth 1 -b branch-2-2-0 https://github.com/scummvm/scummvm.git
```

Tip: To view the Home directory in the Finder, select Go > Home in the menu bar, or press command+shift+H.

If you haven’t done so before now, open Xcode from the Applications folder, and accept the End User License Agreement. Starting Xcode for the first time also installs the command line tools required.

Create a new directory called build at the same level as the repository you just cloned, using either the Finder, or the command line as follows:

```
mkdir build
```

Copy the contents of the scummvm-ios7-libs-v2 folder you extracted earlier into the build directory, using either the Finder, or the command line as follows:

```
cp -r ~/Downloads/scummvm-ios7-libs-v2/* ~/build/
```

If your downloaded iOS library folder is not in the Downloads folder as it is in the preceding example, change the path to where the folder actually is.

Now let’s change the present working directory and then set up the tools required to create the Xcode project:

```
cd scummvm/devtools/create_project/xcode
xcodebuild
```

Step 2: Generating the Xcode project

Change your present working directory to the build directory:

```
cd ~/build
```

It’s time to generate the Xcode project. Run the following on the command line:

```
../scummvm/devtools/create_project/xcode/build/Release/create_project ../scummvm --xcode --enable-fluidsynth --disable-nasm --disable-opengl --disable-theora --disable-taskbar --disable-tts --disable-fribidi
```

The resulting directory structure looks like this:
Open the scummvm.xcodeproj file from the Finder, or from the command line:

```
open scummvm.xcodeproj
```

### Step 3: Building the ScummVM app

When Xcode is open, connect a device to install ScummVM onto. At the top of the window, select **ScummVM-iOS** and then select the device you just connected. You will need to “Trust” the device for it to show up on the list of connected devices.

You may need to disable bitcode generation in the build settings. This should already be disabled by default when you make a build specifically for your device, but it is enabled by default when you build for a “Generic iOS Device”.

The last step before building ScummVM is to change the bundle identifier and manage signing. Click on the **scummvm** project in the left pane, and then click on **ScummVM - iOS** under **TARGETS**. On the menu bar above, click on **General**. Under **Identity** there is a field labeled **Bundle Identifier**. Enter a unique identifier in reverse-DNS format. This can be as simple as `com.yournamehere`.

Next to **General**, click on **Signing & Capabilities**. Under **Signing**, tick the **Automatically manage signing** box, and select your developer account from the **Team** dropdown menu.

If you have not added your developer account to Xcode, do this now. Click **Add an Account** in the dropdown menu.

In the upper left-hand corner, press the play button to build ScummVM. When the build is finished, it launches on your connected device.

If ScummVM does not launch and you get an error message advising that the app failed to launch due to an invalid code signature, inadequate entitlements or because its profile has not been explicitly trusted by the user, you need to trust the apps that you have built. On your iOS device, go to **Settings > General > Device Management > Developer App > Trust “Apple Development:yourAppleIDhere” > Trust.**
13.1.2 Devices with custom firmware

What you'll need

- An iOS device with custom firmware installed (jailbroken). How to jailbreak a device is outside the scope of this documentation.
- A file manager app such as Filza installed on the device.

Downloading and installing ScummVM

Go to the ScummVM downloads page and download the recommended .deb or .ipa package. When the device asks how to open the file, choose Filza.

Ensure the package is saved somewhere in the /var/mobile/ directory. It defaults to /var/mobile/Documents/, which is fine. Tap on the file and then tap Install in the upper right corner to install ScummVM.

Restart your device for the install to complete.

13.2 Transferring game files

There are multiple ways to transfer game files to your iOS device.

ScummVM has built-in cloud functionality, which lets you connect your Google Drive, OneDrive, Box or Dropbox account. For more information, see the Connecting a cloud service page. ScummVM also has the ability to run a local web server. For more information, see the Using the local web server page.

Note: ScummVM’s cloud functionality does not currently support iCloud, however you can upload game folders to your iCloud and then use the Files app on your iOS device to copy these folders into the local ScummVM folder.

Another way to transfer files (for macOS Catalina and newer) to your device is by using the Finder while your device is connected to your Mac. In the Finder app on your Mac, navigate to Locations in the left pane, and click on the connected device. Click on Files, then drag the folder containing the game files into the ScummVM folder. For older versions of macOS, and for Windows users, file transfer can be done in iTunes.

See Handling game files for more information about game file requirements.
## 13.3 Controls

<table>
<thead>
<tr>
<th>Touch screen control</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>One finger tap</td>
<td>Left mouse click</td>
</tr>
<tr>
<td>Two finger tap</td>
<td>Right mouse click</td>
</tr>
<tr>
<td>Two finger double tap</td>
<td>ESC</td>
</tr>
<tr>
<td>Two finger swipe (bottom to top)</td>
<td>Toggles Click and drag mode</td>
</tr>
<tr>
<td>Two finger swipe (left to right)</td>
<td>Toggles between touch direct mode and touchpad mode.</td>
</tr>
<tr>
<td>Two finger swipe (top to bottom)</td>
<td>Global Main Menu</td>
</tr>
<tr>
<td>Three finger swipe</td>
<td>Arrow keys</td>
</tr>
<tr>
<td>Pinch gesture</td>
<td>Enables/disables keyboard</td>
</tr>
<tr>
<td>Keyboard spacebar</td>
<td>Pause</td>
</tr>
</tbody>
</table>

### 13.3.1 Touch controls

The touch control scheme can be switched in the global settings. From the Launcher, go to **Options > Control > Touchpad mouse mode**.

- When touchpad mouse mode is off, the touch controls are direct. The pointer jumps to where the finger touches the screen.
- When touchpad mouse mode is on, the touch controls are indirect. The finger can be far away from the pointer and still move it, like on a laptop touchpad.
- The pointer speed setting in the **Controls tab** affects how far the pointer moves in response to a finger movement.

#### Two finger tap

For a two finger tap, hold one finger down and then tap with a second finger.

#### Two finger double tap

For a two finger double tap, hold one finger down and then double tap with a second finger.

#### Click and drag mode

Simulates a left mouse click when you touch the screen. The mouse pointer drags to wherever you slide your finger, and releases where you lift your finger.

If you press down a second finger in this mode, it releases the simulated left mouse button, and presses down the simulated right mouse button. The right mouse button is released when you lift your finger again.
Keyboard

If no external keyboard is connected, the pinch gesture shows and hides the onscreen keyboard. When an external keyboard is connected, the pinch gesture enables/disables inputs from the external keyboard.

13.4 Paths

13.4.1 Saved games

/var/mobile/Library/ScummVM/Savegames/ if the device is jailbroken, or Savegames/ in the ScummVM folder for a non-jailbroken device. Access this folder through the Finder or iTunes.

13.4.2 Configuration file

/var/mobile/Library/ScummVM/Preferences if the device is jailbroken, or Preferences in the ScummVM folder for a non-jailbroken device. Access this folder through the Finder or iTunes.
Chapter 14

Nintendo 3DS

This page contains all the information you need to get ScummVM up and running on a Nintendo 3DS.

14.1 What you’ll need

- A Nintendo 3DS with a Homebrew Launcher or custom firmware. How to enable homebrew is outside the scope of this documentation.

14.2 Installing ScummVM

Download the Nintendo 3DS package from the ScummVM Downloads page. Extract the archive.

There are two ways to install ScummVM: using the 3DSX format, or the CIA format.

14.2.1 Using the 3DSX format

Copy the extracted files to your SD card into the /3ds/scummvm directory.
Launch ScummVM using the Homebrew Launcher.

14.2.2 Using the CIA format

Use any CIA installation software to install the scummvm.cia file.

The CIA format requires a DSP binary dump saved on your SD card as /3ds/dspfirm.cdc. This is not an optional step, because without this you will not have proper audio support. Documenting this process is outside the scope of this documentation.
14.3 Transferring game files

Transfer game folders onto the SD card. The exact location is not important. ScummVM for the Nintendo 3DS also has cloud functionality. See Connecting a cloud service. See Handling game files for more information about game file requirements.

14.4 Controls

14.4.1 Default control mapping

Controls can also be manually configured in the Keymaps tab. See the Keyboard shortcuts page for common keyboard shortcuts.

<table>
<thead>
<tr>
<th>Game Controller Mapping:</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Button</td>
<td>Action</td>
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<tr>
<td>Circle Pad</td>
<td>Moves the cursor</td>
</tr>
<tr>
<td>R + Circle Pad</td>
<td>Slow Mouse</td>
</tr>
<tr>
<td></td>
<td>Left mouse button</td>
</tr>
<tr>
<td></td>
<td>Right mouse button</td>
</tr>
<tr>
<td></td>
<td>Opens the virtual keyboard</td>
</tr>
<tr>
<td>Control Pad</td>
<td>Keypad cursor keys</td>
</tr>
<tr>
<td>L Button</td>
<td>Toggles magnify mode on/off</td>
</tr>
<tr>
<td>R Button</td>
<td>Toggles between hover/drag modes</td>
</tr>
<tr>
<td>START</td>
<td>Opens global main menu</td>
</tr>
<tr>
<td>SELECT</td>
<td>Opens 3DS config menu</td>
</tr>
</tbody>
</table>

14.4.2 Hover mode

When using the touchscreen, hover mode simulates the movement of the mouse. You can click with taps, however you can't drag or hold down a mouse button unless you use the buttons mapped to the right/left mouse buttons.

14.4.3 Drag mode

Simulates the click and release of the mouse buttons every time you touch and release the touchscreen. At the moment, this is only a left mouse button click.
14.4.4 Magnify mode

Due to the low resolutions of the 3DS screens (400x240 for the top, and 320x240 for the bottom), games that run at a higher resolution will inevitably lose some visual detail from being scaled down. This can result in situations where essential information, such as text, is indiscernable.

Magnify mode increases the scale factor of the top screen back to 1, but the bottom screen remains unchanged. The touchscreen can then be used to change which part of the game display is being magnified. This can be done even in situations where the cursor is disabled, such as during full-motion video segments.

When activating magnify mode, touchscreen controls are automatically switched to Hover mode mode to reduce the risk of the user accidentally inputting a click when changing the magnified area with the stylus. Clicking can still be done as in normal hover mode. Turning off magnify mode will revert controls back to what was used previously. It will also restore the top screen’s previous scale factor.

Magnify mode can only be used when the following conditions are met:

- In the 3DS config menu, the Use Screen option is set to Both.
- The horizontal and/or vertical in-game resolution is greater than that of the top screen.
- You’re playing a game.

Magnify mode cannot be used in the Launcher menu.

14.5 Paths

14.5.1 Saved games

sDmc:/3ds/scummvm/saves/

14.5.2 Configuration file

sDmc:/3ds/scummvm/scummvm.ini

14.6 Settings

For more information about Settings, see the Settings section of the documentation. Only platform-specific differences are listed here.
14.6.1 The 3DS config menu

![Fig. 1: The 3DS config menu.](image)

**Show mouse cursor** Toggles a visible mouse cursor on/off.

**Stretch to fit** Stretches the image to fit the screen

**Snap to edges** The 3DS touch screen has difficulty reaching the very end of the screen. With this option enabled, if you're within a few pixels of the edge the cursor snaps to the edge.

**Use Screen:** Sets whether ScummVM uses the **Top**, **Bottom** or **Both** screens.

**C-Pad Sensitivity** Sets the sensitivity of the Circle Pad.

14.6.2 Audio

Supported audio file formats:

- MP3
- OGG
- Uncompressed audio
14.7 Known issues

Some games are not playable due to the slow CPU speed on the 3DS. If there are any games that run really slowly, this is considered a hardware limitation, not a bug.
Chapter 15

Nintendo DS

This page contains all the information you need to get ScummVM up and running on a Nintendo DS.

15.1 What you’ll need

- Either a homebrew-enabled Nintendo DSi or an unofficial card reader. How to enable homebrew is outside the scope of this documentation.

15.2 Installing ScummVM

Download the Nintendo DS package from the ScummVM Downloads page. Extract the archive and copy the extracted `scummvm.nds` file onto the SD card. The exact location is not important.

15.3 Transferring game files

Transfer game folders onto the SD card. The exact location is not important. See Handling game files for more information about game file requirements.

15.4 Controls

Controls can also be manually configured in the Keymaps tab. See the Keyboard shortcuts page for common keyboard shortcuts.
15.5 Paths

Saved games and the configuration file are found in the ScummVM installation directory.

15.6 Settings

For more information about Settings, see the Settings section of the documentation. Only platform-specific differences are listed here.

15.6.1 Audio

Supported audio file formats:

- MP3
- Uncompressed audio

**Tip:** Games run faster if audio files are uncompressed.

15.7 Known issues

- Games requiring a resolution of 512x512 or higher are not supported on the DS due to hardware limitations.
- Some games are not playable due to the slow CPU speed and limited RAM on the DS. If there are any games that run really slowly, this is considered a hardware limitation, not a bug.
Chapter 16

Nintendo Switch

This page contains all the information you need to get ScummVM up and running on a Nintendo Switch.

16.1 What you’ll need

- A homebrew-enabled Nintendo Switch console. How to enable homebrew is outside the scope of this documentation.

16.2 Installing ScummVM

The Nintendo Switch package is available for download on the ScummVM Downloads page. Download the zip file to a computer, and extract the files.

Copy the extracted scummvm folder to your Nintendo Switch microSD card, into the /switch/ folder.

16.3 Transferring game files

Copy the folders containing game files into the /switch/scummvm/ folder on the microSD card.

ScummVM on the Nintendo switch supports cloud functionality.

See Handling game files for more information about game file requirements.
16.4 Controls

16.4.1 Default control map

These controls can also be manually configured in the Keymaps tab. See the Keyboard shortcuts page for common keyboard shortcuts.

<table>
<thead>
<tr>
<th>Button</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left stick</td>
<td>Mouse</td>
</tr>
<tr>
<td>Left stick + R button</td>
<td>Slow Mouse</td>
</tr>
<tr>
<td></td>
<td>Left mouse button</td>
</tr>
<tr>
<td></td>
<td>Right mouse button</td>
</tr>
<tr>
<td>Directional buttons</td>
<td>Keypad ‘Cursor’ Keys</td>
</tr>
<tr>
<td>Directional buttons + R button</td>
<td>Diagonal Keypad ‘Cursor’ Keys</td>
</tr>
<tr>
<td>L button</td>
<td>Game menu (F5)</td>
</tr>
<tr>
<td>R button</td>
<td>Shift</td>
</tr>
<tr>
<td>+ R button</td>
<td>Period</td>
</tr>
<tr>
<td>+ R button + R button</td>
<td>Space</td>
</tr>
<tr>
<td></td>
<td>Escape</td>
</tr>
<tr>
<td></td>
<td>Return</td>
</tr>
<tr>
<td>+ R button + R button</td>
<td>Global main menu (GMM)</td>
</tr>
<tr>
<td></td>
<td>Toggle virtual keyboard</td>
</tr>
<tr>
<td>+ R button</td>
<td>AGI predictive input dialog</td>
</tr>
</tbody>
</table>

16.4.2 Touch Controls (Touchpad Mouse Mode Off, Default)

<table>
<thead>
<tr>
<th>Touch</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short single finger tap</td>
<td>Move pointer to finger position and left mouse button click</td>
</tr>
<tr>
<td>Short second finger tap</td>
<td>Move pointer to first finger position and right mouse button click</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Single finger drag</td>
<td>Move pointer directly with finger</td>
</tr>
<tr>
<td>Two finger drag</td>
<td>Move pointer while left mouse button is held down (drag and drop). The pointer directly follows the first finger. The drag is ended when the last finger is removed.</td>
</tr>
<tr>
<td>Three finger drag</td>
<td>Move pointer while right mouse button is held down (drag and drop). The pointer directly follows the first finger. The drag is ended when the last finger is removed.</td>
</tr>
</tbody>
</table>
16.4.3 Touch Controls (Touchpad Mouse Mode On)

<table>
<thead>
<tr>
<th>Touch</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short single finger tap</td>
<td>Left mouse button click</td>
</tr>
<tr>
<td>Short second finger tap while holding one</td>
<td>Right mouse button click</td>
</tr>
<tr>
<td>Single finger drag</td>
<td>Move pointer indirectly with finger, pointer speed can be adjusted in con-</td>
</tr>
<tr>
<td></td>
<td>trol settings</td>
</tr>
<tr>
<td>Two finger drag</td>
<td>Move pointer while left mouse button is held down (drag-and-drop). The</td>
</tr>
<tr>
<td></td>
<td>pointer motion is affected by the first finger. The drag is ended when</td>
</tr>
<tr>
<td></td>
<td>the last finger is removed.</td>
</tr>
<tr>
<td>Three finger drag</td>
<td>Move pointer while right mouse button is held down (drag-and-drop). The</td>
</tr>
<tr>
<td></td>
<td>pointer motion is affected by the first finger. The drag is ended when</td>
</tr>
<tr>
<td></td>
<td>the last finger is removed.</td>
</tr>
</tbody>
</table>

16.4.4 Keyboard and mouse support

Physical USB mice and keyboards work on the Switch and are supported by ScummVM. All keyboards work but not all mice work. A mouse compatibility list is available on this Google Sheet.

16.4.5 Touch support

For multi-touch gestures, the fingers have to be far enough apart from each other that the Switch does not recognize them as a single finger, otherwise the pointer jumps around.

The touch control scheme can be switched in the global settings. From the Launcher, go to Options > Control > Touchpad mouse mode.

- When touchpad mouse mode is off (default), the touch controls are direct. The pointer always jumps to where the finger touches the screen.
- When touchpad mouse mode is on, the touch controls are indirect. The finger can be far away from the pointer and still move it, like on a laptop touchpad.
- The pointer speed setting in the Controls tab affects how far the pointer moves in response to a finger movement.
Two finger drag

Hold down two fingers to initiate a drag-and-drop feature. The two finger drag simulates the left mouse button being held down.

- The first finger affects mouse motion during the drag, the second finger can be removed without affecting the drag.
- When the last finger is removed, the left mouse button is released and the drag is over.
- The second finger can be anywhere, it doesn’t have to be close to the first finger, and it doesn’t have to be put down simultaneously with the first finger.

Three finger drag

Hold down the three fingers to initiate a drag-and-drop feature. The three finger drag simulates the right mouse button being held down.

16.5 Paths

16.5.1 Saved games

/switch/scummvm/saves

16.5.2 Configuration file

/switch/scummvm/scummvm.ini

16.6 Settings

For more information, see the Settings section of the documentation. Only platform-specific differences are listed here.

16.6.1 Audio

Supported devices:
- MT-32 emulator
- FluidSynth (General MIDI emulator)
- AdLib emulator

Supported audio file formats:
- MP3
• OGG
• FLAC
• Uncompressed audio

16.6.2 Controls

See the Touch support section.
Chapter 17

PlayStation 3

This page contains all the information you need to get ScummVM up and running on a PlayStation 3.

17.1 What you’ll need

- A Homebrew enabled Playstation 3 console. How to enable homebrew is outside the scope of this documentation.
- A USB drive
- A computer

17.2 Installing ScummVM

Download the Playstation 3 package from the ScummVM Downloads page. Copy the .pkg file to a USB drive.

Plug the USB drive into the PS3. Go to the XMB, then go to Games > Install Package to install the ScummVM package.

To launch ScummVM, go to the XMB, then go to Games > PlayStation 3 > ScummVM.

17.3 Transferring game files

Games can be launched from either a USB drive, or from the internal hard drive. The hard drive has better performance.

To copy game files to the hard drive, use the USB drive, or use ScummVM’s cloud functionality.

See Handling game files for more information about game file requirements.
17.4 Controls

Controls can also be manually configured in the Keymaps tab. See the Keyboard shortcuts page for common keyboard shortcuts.

17.4.1 Default control map

<table>
<thead>
<tr>
<th>Touchscreen:</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buttons/Control</td>
<td></td>
</tr>
<tr>
<td>Left stick</td>
<td>Moves pointer</td>
</tr>
<tr>
<td></td>
<td>Left mouse button</td>
</tr>
<tr>
<td></td>
<td>Right mouse button</td>
</tr>
<tr>
<td></td>
<td>Game menu</td>
</tr>
<tr>
<td></td>
<td>Esc</td>
</tr>
<tr>
<td>START</td>
<td>Global Main Menu</td>
</tr>
<tr>
<td>SELECT</td>
<td>Toggle virtual keyboard</td>
</tr>
<tr>
<td>L1 button</td>
<td>AGI predictive input dialog</td>
</tr>
</tbody>
</table>

17.5 Paths

17.5.1 Saved games

`/hdd0/game/SCUM12000/USRDIR/saves/`

17.5.2 Configuration file

`/hdd0/game/SCUM12000/USRDIR/scummvm.ini`

17.6 Settings

For more information, see the Settings section of the documentation. Only platform-specific differences are listed here.
17.6.1 Audio

Supported audio file formats:

- MP3
- OGG
- FLAC
- Uncompressed audio
Chapter 18

PlayStation Portable

This page contains all the information you need to get ScummVM up and running on a PSP.

18.1 What you’ll need

- A homebrew-enabled PSP. How to enable homebrew is outside the scope of this documentation.
- A computer to download an extract the install files.

18.2 Installing ScummVM

The PSP package is available for download ScummVM’s Downloads page.

Download the zip file to a computer, and extract the files.

Connect the PSP to the computer by USB cable. Go to Settings > USB Connection on the PSP. Ensure the USB Device option is set to Memory Stick. The computer automatically opens the root folder of the PSP. Alternatively, if you have a Memory Stick adapter, copy the files directly to the Memory Stick.

Copy the extracted scummvm folder to your PSP, into the /PSP/GAME/ folder.

Go to Game > Memory Stick and choose ScummVM to launch ScummVM!
18.3 Transferring game files

Transfer game files onto the PSP as described in the installation section above. They can be copied to any folder; location doesn’t matter.

See Handling game files for more information about game file requirements.

18.4 Controls

18.4.1 Default control map

These controls can also be manually configured in the Keymaps tab. See the Keyboard shortcuts page for common keyboard shortcuts.

<table>
<thead>
<tr>
<th>Button</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>R button</td>
<td>Modifier key</td>
</tr>
<tr>
<td>L button</td>
<td>ESC</td>
</tr>
<tr>
<td>Analog stick</td>
<td>Mouse movement</td>
</tr>
<tr>
<td>Analog stick + R button</td>
<td>Fine mouse movement</td>
</tr>
<tr>
<td>Directional buttons</td>
<td>Arrow keys</td>
</tr>
<tr>
<td>Directional buttons + R button</td>
<td>Diagonal arrow keys</td>
</tr>
<tr>
<td></td>
<td>Enter</td>
</tr>
<tr>
<td></td>
<td>Left Mouse Button</td>
</tr>
<tr>
<td></td>
<td>Right Mouse Button</td>
</tr>
<tr>
<td></td>
<td>Period</td>
</tr>
<tr>
<td>+ R button</td>
<td>Spacebar</td>
</tr>
<tr>
<td>SELECT</td>
<td>Shows/Hides the virtual Keyboard. Hold down with Directional buttons to move the keyboard.</td>
</tr>
<tr>
<td>SELECT + R button</td>
<td>Shows Image Viewer</td>
</tr>
<tr>
<td>START</td>
<td>Global Main Menu</td>
</tr>
<tr>
<td>START + R button</td>
<td>F5</td>
</tr>
</tbody>
</table>
18.4.2 Virtual Keyboard Mode

<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>START</td>
<td>Enter. Also exits virtual keyboard mode</td>
</tr>
<tr>
<td>SELECT</td>
<td>Exits the virtual keyboard mode</td>
</tr>
<tr>
<td>R button</td>
<td>Input: lowercase/uppercase letters (press to toggle)</td>
</tr>
<tr>
<td>L button</td>
<td>Input: numbers/symbols (press to toggle)</td>
</tr>
<tr>
<td>Directional buttons</td>
<td>Selects square of characters (up, down, left or right)</td>
</tr>
<tr>
<td>and L/R buttons</td>
<td>Chooses a specific character in the square. The four center characters</td>
</tr>
<tr>
<td>Analog stick</td>
<td>Moves in a direction (left/right/up/down)</td>
</tr>
</tbody>
</table>

18.4.3 Image Viewer

<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left/right directional buttons</td>
<td>Previous/next image</td>
</tr>
<tr>
<td>Up/down directional buttons</td>
<td>Zooms in/out</td>
</tr>
<tr>
<td>Analog stick</td>
<td>Moves around the image</td>
</tr>
<tr>
<td>L/R buttons + START</td>
<td>Exits image viewer</td>
</tr>
</tbody>
</table>

18.4.4 1st Person Game Mode

<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ R button + L button</td>
<td>Enables 1st Person Mode</td>
</tr>
<tr>
<td></td>
<td>Modifier key (instead of R button)</td>
</tr>
<tr>
<td>L/R button</td>
<td>Strafes left/right</td>
</tr>
<tr>
<td>Directional buttons left/right</td>
<td>Turns left/right</td>
</tr>
<tr>
<td>+ Directional buttons</td>
<td>F1/F2/F3/F4</td>
</tr>
<tr>
<td>+ SELECT</td>
<td>Image Viewer</td>
</tr>
<tr>
<td>+ START</td>
<td>Esc</td>
</tr>
</tbody>
</table>

18.5 Settings

For more information, see the Settings section of the documentation. Only platform-specific differences are listed here.
18.5.1 Audio

Supported audio file formats:

- MP3
- OGG
- Uncompressed audio

Tip: Games run faster if audio files are in the .mp3 file format.

18.6 Paths

18.6.1 Saved games

ms0:/scummvm_savegames/

18.6.2 Configuration file

ms0:/scummvm.ini

18.7 Known issues

- Plugin files are not interchangeable between ScummVM versions. You must copy all the plugin files found in the /PSP/GAME/scummvm/plugin/ folder for every new version you install. If ScummVM crashes on startup, delete the existing plugin files in the plugin directory and copy the new ones again.
- If the virtual keyboard does not show up on the screen, ensure the kbd.zip file is in the scummvm folder.
Chapter 19

PlayStation Vita

This page contains all the information you need to get ScummVM up and running on a PS Vita.

19.1 What you’ll need

- A homebrew-enabled PS Vita console with Vitashell installed. How to enable homebrew is outside the scope of this documentation.

19.2 Installing ScummVM

The PS Vita package is available for download on the ScummVM Downloads page.
Copy the .vpk to the PS Vita and install it using VitaShell.

19.3 Transferring game files

There are a few ways to transfer game files to the PS Vita.

Use VitaShell to transfer the files by USB or FTP, or use SD2Vita to transfer the files directly to the microSD card.

Folders containing game files can be copied anywhere on the SD card.
ScummVM on the PS Vita supports cloud functionality.

See Handling game files for more information about game file requirements.
19.4 Controls

19.4.1 Default control map

These controls can also be manually configured in the Keymaps tab. See the Keyboard shortcuts page for common keyboard shortcuts.

<table>
<thead>
<tr>
<th>Game Controller Mapping</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Button</td>
<td>Action</td>
</tr>
<tr>
<td>Left stick</td>
<td>Mouse</td>
</tr>
<tr>
<td>Left stick + R button</td>
<td>Slow Mouse</td>
</tr>
<tr>
<td></td>
<td>Left mouse click</td>
</tr>
<tr>
<td></td>
<td>Right mouse click</td>
</tr>
<tr>
<td>Directional buttons</td>
<td>Keypad 'Cursor' Keys</td>
</tr>
<tr>
<td>Directional buttons + R button</td>
<td>Diagonal Keypad 'Cursor' Keys</td>
</tr>
<tr>
<td>L button</td>
<td>Game menu (F5)</td>
</tr>
<tr>
<td>R button</td>
<td>Shift</td>
</tr>
<tr>
<td></td>
<td>Period (.)</td>
</tr>
<tr>
<td></td>
<td>Spacebar</td>
</tr>
<tr>
<td>R button +</td>
<td>Escape</td>
</tr>
<tr>
<td></td>
<td>Return</td>
</tr>
<tr>
<td>START</td>
<td>Global main menu (GMM)</td>
</tr>
<tr>
<td>SELECT</td>
<td>Toggle virtual keyboard</td>
</tr>
<tr>
<td>SELECT + R button</td>
<td>AGI predictive input dialog</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Front Touchscreen Controls, always enabled</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Touch</td>
<td>Action</td>
</tr>
<tr>
<td>One finger tap</td>
<td>Moves pointer to finger position and left mouse click</td>
</tr>
<tr>
<td>Two finger tap</td>
<td>Moves pointer to first finger position and right mouse click</td>
</tr>
<tr>
<td>Single finger drag</td>
<td>Moves pointer directly with finger</td>
</tr>
<tr>
<td>Two finger drag</td>
<td>Moves pointer while left mouse button is held down (drag-and-drop).</td>
</tr>
<tr>
<td>Three finger drag</td>
<td>Moves pointer while right mouse button is held down (drag-and-drop).</td>
</tr>
</tbody>
</table>
Back Touchpad Controls, enabled through settings

<table>
<thead>
<tr>
<th>Touch</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>One finger tap</td>
<td>Left mouse button click</td>
</tr>
<tr>
<td>Two finger tap</td>
<td>Right mouse button click</td>
</tr>
<tr>
<td>Single finger drag</td>
<td>Moves pointer indirectly with finger, pointer speed can be adjusted in control settings</td>
</tr>
<tr>
<td>Two finger drag</td>
<td>Moves pointer while left mouse button is held down (drag-and-drop).</td>
</tr>
<tr>
<td>Three finger drag</td>
<td>Moves pointer while right mouse button is held down (drag-and-drop).</td>
</tr>
</tbody>
</table>

19.4.2 Keyboard and mouse support

Real bluetooth mice and keyboards work on the Vita and are supported by ScummVM. Go to Settings > Devices on the Vita home screen to pair your devices.

**Note:** Not all bluetooth keyboards or mice pair successfully with the Vita. The ScummVM team tested the Jelly Bean BT keyboard and mouse combo (ASIN:B06Y56BBYP) and with the standalone Jelly Comb Bluetooth Wireless Mouse (ASIN:B075HBDWCF).

19.4.3 Touch support

For multi-touch gestures, the fingers have to be far enough apart from each other that the Vita will not recognize them as a single finger, otherwise the pointer will jump around.

**Touchpad mouse mode**

The touch control scheme can be switched in the global settings. Go to Options > Control:

- When **Touchpad mouse mode** is off:
  - The touch controls are direct, which means the pointer always jumps to the finger position.
  - The rear touch pad is disabled.
- When **Touchpad mouse mode** is on:
  - The touch controls are indirect. The finger can be far away from the pointer and still move it, like on a laptop touchpad.
  - The pointer speed setting in the Control tab affects how far the pointer moves in response to a finger movement.
  - The rear touch pad is enabled.
The front touchscreen uses the direct mode by default, but this can be changed by editing the configuration file with the following keyword:

frontpanel_touchpad_mode

When set to true, the touch controls on the front touchscreen are indirect.

**Two finger tap**

For a two finger tap, hold one finger down and then tap with a second finger.

**Two finger drag**

Hold down two fingers to initiate a drag-and-drop feature. The two finger drag simulates the left mouse button being held down.

- The first finger affects mouse motion during the drag, the second finger can be removed without affecting the drag.
- When the last finger is removed, the left mouse button is released and the drag is over.
- The second finger can be anywhere, it doesn’t have to be close to the first finger, and it doesn’t have to be put down simultaneously with the first finger.

**Three finger drag**

Hold down the three fingers to initiate a drag-and-drop feature. The three finger drag simulates the right mouse button being held down.

### 19.5 Paths

#### 19.5.1 Saved games

ux0:/data/scummvm/saves

#### 19.5.2 Configuration file

ux0:/data/scummvm/scummvm.ini
19.6 Settings

For more information, see the Settings section of the documentation. Only platform-specific differences are listed here.

19.6.1 Audio

Supported audio file formats:
  - MP3
  - OGG
  - FLAC
  - Uncompressed audio

19.6.2 Controls

See the Touch support section.

19.7 Known Issues

  - MT-32 emulation is not available on the PS Vita.
Chapter 20

RISC OS

This page contains all the information you need to get ScummVM up and running on the RISC operating system.

20.1 What you’ll need

- A system running RISC OS 5
- The SharedUnixLibrary, DRenderer and Iconv modules installed. SharedUnixLibrary and DRenderer can be installed using Packman.

20.2 Installing ScummVM

Download the RISC OS package from the ScummVM Downloads page.

Use a tool such as SparkFS to extract the archive. It is important that the archive is not extracted on any other system, because this results in a loss of file type information. ScummVM requires the file type information to run properly.

20.3 Transferring game files

Copy data files directly from the original discs on machines that have CD and/or floppy drives, or use a USB drive to transfer the files from another system.

See Handling game files for more information about game file requirements.
20.4 Controls

Controls can be manually configured in the Keymaps tab. See the Keyboard shortcuts page for common default keyboard shortcuts.

20.5 Paths

20.5.1 Saved games

<Choices$Write>.ScummVM.Saves

20.5.2 Configuration file

<Choices$Write>.ScummVM.scummvmrc

The <Choices$Write> environment variable is usually $.!Boot.Choices.

20.6 Settings

For more information about settings, see the Settings section of the documentation. Only platform-specific differences are listed here.

There is one additional configuration option, enable_reporter. When set to true in Configuration file, log messages are sent to the !Reporter application. This is useful mostly for developers.

20.7 Known issues

- ScummVM for RISC OS does not have cloud or LAN functionality.
- FluidSynth is not supported.
- ScummVM is not compatible with RISC OS 3, 4 or 6.
Chapter 21

Sega Dreamcast

This page contains all the information you need to get ScummVM up and running on a Sega Dreamcast.

21.1 What you’ll need

- A CD-R disc (80min/700mb).
- A CD-RW drive.
- A computer running Windows.
- Software to create a bootable disc image, such as BootDreams
- CD burning software such as Nero Burning ROM, ImgBurn or Alcohol120%.

21.2 Running ScummVM

There are two ways to get ScummVM running on the Dreamcast:

1. Download the ready-to-go Nero Image and Demos package and burn the extracted .nrg image to a CD-R using Nero Burning ROM.
2. Download the Dreamcast plain files package and use the extracted files to create a custom disc image to burn to a CD-R.

Both packages are available from the ScummVM Downloads page
21.2.1 Creating a disc from the Dreamcast Nero Image and Demos package

Use Nero Burning ROM to burn the .nrg file contained in the package to a CD-R disc.

21.2.2 Creating a disc from the Dreamcast plain files package

Create a directory on your computer. In this example, the directory is called ScummVMDC.

Copy the downloaded SCUMMVM.BIN and IP.BIN files into the ScummVMDC directory. These are the main boot and engine files required for ScummVM to run.

The .PLG files in the plain files package are the plugins that are required to run the games. For the best performance, only include the plugins for games you want to play. For example, if you want to play LucasArts games, include SCUMM.PLG.

In the plain files package there are also .DAT files. These files might be listed as required Datafiles on the Datafiles wiki page.

Copy the required .PLG and .DAT files into the root of the ScummVMDC directory.

Next, make a new directory for each game. In this example, all the required Day of the Tentacle data files have been copied into a subdirectory named DOTT.

Our file structure now looks like this:

```
ScummVMDC
|--DOTT
   |-- MONSTER.SOU
   |-- TENTACLE.000
   `-- TENTACLE.001
|--IP.BIN
|-- SCUMM.PLG
 `-- SCUMMVM.BIN
```

The next step is to create a bootable disc image from the ScummVMDC folder.

Use Bootdreams to create either a Discjuggler, Nero or Alcohol120% disc image.

1. Choose the preferred disc image type by clicking on the corresponding icon at the top of the window.
2. Choose the ScummVMDC folder as the Selfboot folder.
3. Enter a title for the disc image in the CD label field.
4. Leave the Disc format as Audio/Data.
5. Click Process to create the disc image.

To burn the resulting image to disc, use any software capable of using those image formats, such as Nero Burning ROM for NRG, Alcohol120% for MDS, and Padus DiscJuggler or ImgBurn for CDI disc images.
Tip: The image created from the plain files package can also be used with Optical Disc Emulators and similar external hardware.

Caution: Use the lowest possible burning speed for best results; the Dreamcast is an older system and as such can have problems reading discs burned at high speeds. If available, the 4x speed is ideal. Ensure that you use good quality discs from a reputable manufacturer. If possible, use archival grade discs.

21.3 Transferring game files

Game files can be included on the same CD as the ScummVM binary file, or on a separate disc.

The Dreamcast port does not use the normal ScummVM Launcher. It uses its own custom graphical user interface, which automatically scans the disc for games, and adds the games to a games list through ScummVM's built-in autodetection.

ScummVM for the Dreamcast supports disc swapping from the GUI. It rescans after a new disc is inserted and repopulates the games list.

See *Handling game files* for more information about game file requirements.
21.4 Controls

21.4.1 Default control map

<table>
<thead>
<tr>
<th>Game Controller Mapping</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Button</td>
<td>Action</td>
</tr>
<tr>
<td>Joystick</td>
<td>Moves pointer</td>
</tr>
<tr>
<td>Directional pad</td>
<td>Moves pointer slowly. Also controls the on-screen keyboard</td>
</tr>
<tr>
<td>Left Click</td>
<td>Left Click</td>
</tr>
<tr>
<td>Right Click</td>
<td>Right Click</td>
</tr>
<tr>
<td>Pause</td>
<td>Pause</td>
</tr>
<tr>
<td>START</td>
<td>Load and save</td>
</tr>
<tr>
<td>Trigger L</td>
<td>Toggles the virtual keyboard on/off</td>
</tr>
<tr>
<td>+ Directional pad</td>
<td>5 - used for boxing in Indiana Jones and the Last Crusade</td>
</tr>
<tr>
<td></td>
<td>1, 2, 3, 4, 6, 7, 8, 9 - used for boxing in Indiana Jones and the Last Crusade</td>
</tr>
</tbody>
</table>

The mouse cursor is controlled with the standard Dreamcast controller. The Dreamcast mouse and keyboard peripherals are also supported.

21.5 Paths

21.5.1 Saved games

The Visual Memory Unit (VMU) is used to save and load games.

Autosave is enabled on the Dreamcast, so each game will use some memory blocks (between 2 and 13) for the autosave in save slot 0.

When a game is saved, the VMU beeps, and a prompt is displayed on the screen to let you know that the game has been saved.

Games are saved and loaded through the built-in game menus.

21.5.2 Configuration file

ScummVM for the Dreamcast does not use a configuration file.
21.6 Settings

There is no way to change ScummVM settings on the Dreamcast.

21.7 Known issues

- The Dreamcast has no external storage medium, and only has 16MB of RAM. As such, the Dreamcast port of ScummVM does not support The Curse of Monkey Island or the Dig. The resources required for these games are too great for the Dreamcast to handle. Full Throttle is not completable.

- There is currently no way to manually add games to the games list. The autodetect feature usually works well, but sometimes games will show up on the list twice, incorrect games will show up with the correct game, and, quite rarely, the game will not show up on the list at all.

- Some games, for example SPY Fox 1: Dry Cereal, use filenames which are incompatible with the ISO 9660 filesystem standard. The Dreamcast port does not support filename extensions like RockRidge or Joliet, so the CD mastering software needs to be instructed not to change the filenames to comply to ISO 9660, or the engine will not be able to open the files.
Chapter 22

Game

Use the Game tab to display and change information about how the game is identified by ScummVM.

From the Launcher, highlight a game on the games list, then select Edit Game. The Game tab is the first tab shown.

All settings can also be changed in the Configuration file. The configuration key is listed in italics after each setting description.

---

**ID** Shows the short name of the game. Edit this name as required, but use only numbers, letters and hyphens. The ID can also be used for launching the game from the command line.

**Name** Shows the full title of the game, as well as some basic information such as original platform and language.

language

description

**Language** For games that were released with support for multiple languages, this options changes the language of the game. For games that have a single language hardcoded, this option does not change the language of the game, it only affects the subtitles. Select the correct language to ensure that subtitles display correctly, especially for non-English games.

language

**Platform** Specifies the original platform of the game.

platform
Fig. 1: The Game tab in the game-specific settings
Chapter 23

Engine

Use the Engine tab to change settings that are unique to the game being played.

From the Launcher, highlight a game on the games list, select Edit Game, and then select the Engine tab. This tab is not available for all games.

To find out which engine powers your game, have a look at the ScummVM Supported Games wiki page.

Engines: ADL | AGI | BLADERUNNER | CGE | CINE | DRASCUla | DREAMWEB | HDB | HOPKINS | KYRA | LURE | MADS | NEVERHOOD | SCI | SCUMM | SHERLOCK | SKY | SUPERNOVA | TOLTECS | WINTERMUTE | XEEN |

All settings can also be changed in the Configuration file. The configuration key is listed in italics after each setting description.

23.1 ADL

TV emulation Emulates the composite output to an NTSC TV.

   ntsc

Color Graphics Uses color graphics instead of monochrome graphics.

   color

Show scanlines Darkens every other scanline to mimic the look of a CRT display.

   scanlines

Always use sharp monochrome text Does not emulate NTSC artifacts for text.

   monotext
Fig. 1: The Engine tab in the game-specific settings


### 23.2 AGI

**Use original save/load screens** Uses the original save/load screens instead of the ScummVM screens.

```plaintext
originalsaveload
```

**Use an alternative palette** Uses an alternative palette, common to all Amiga games.

```plaintext
altamigapalette
```

**Mouse support** Enables mouse support for movement and in-game menus.

```plaintext
mousesupport
```

**Use Hercules hires font** Uses the Hercules hi-resolution font, when the font file is available.

```plaintext
herculesfont
```

**Pause when entering commands** Shows a command prompt window and pauses the game, instead of a real-time prompt.

```plaintext
commandpromptwindow
```

**Add speed menu** Adds a game speed menu, similar to the PC version.

```plaintext
apple2gs_speedmenu
```

### 23.3 BLADERUNNER

**Sitcom mode** Adds laughter after the actor's line or narration.

```plaintext
sitcom
```

**Shorty mode** Shrinks the actors and makes their voices high pitched.

```plaintext
shorty
```

**Frame limiter high performance mode** Avoids use of `delayMillis()` function. This mode might result in high CPU usage.

```plaintext
nodelaymillisfl
```

**Max frames per second limit** Targets a maximum of 120 frames per second (fps). When disabled, the game targets 60 fps.

```plaintext
frames_per_secondfl
```

**Disable McCoy’s quick stamina drain** When running, McCoy won’t start slowing down as soon as the player stops clicking the mouse.

```plaintext
disable_stamina_drain
```
23.4 CGE

**Color Blind Mode** Enables Color Blind Mode by default.

`enable_color_blind`

23.5 CINE

Use **original save/load screen** Uses the original save/load screens instead of the ScummVM screens.

`originalsaveload`

Use **transparent dialog boxes in 16 color scenes** Uses transparent dialog boxes in 16 color scenes even if the original game version did not support them.

`transparentdialogboxes`

23.6 DRASCUCLA

Use **original save/load screens** Uses the original save/load screens instead of the ScummVM screens.

`originalsaveload`

23.7 DREAMWEB

Use **original save/load screens** Uses the original save/load screens instead of the ScummVM screens.

`originalsaveload`

Use **bright palette mode** Displays graphics using the game's bright palette.

`bright_palette`
23.8 HDB

Enable cheat mode  Enables debug info and level selection.
   
   hypercheat

23.9 HOPKINS

Gore Mode  Enables Gore Mode when available.
   
   enable_gore

23.10 KYRA

Enable studio audience  Studio audience adds an applause and cheering sounds whenever Malcolm makes a joke.
   
   studio_audience

Skip support  Lets the user skip text and cutscenes.
   
   skip_support

Enable helium mode  Makes characters sound like they inhaled Helium.
   
   helium_mode

Enable smooth scrolling when walking  Makes scrolling smoother when changing from one screen to another.
   
   smooth_scrolling

Enable floating cursors  Changes the cursor when it floats to the edge of the screen to a directional arrow. Click to walk in that direction.
   
   floating_cursors

Suggest save names  Fills in an autogenerated save game description into the input prompt.
   
   auto_savenames

HP bar graphs  Enables hit point bar graphs.
   
   hpbargraphs

Fight Button L/R Swap  Swaps the buttons so that the left button attacks, and the right button picks up items.
   
   mousebtswap
23.11 LURE

TTS Narrator Uses text-to-speech to read the descriptions, if text-to-speech is available.

    tts_narrator

23.12 MADS

Easy mouse interface Shows object names when the mouse pointer is held over the object.

    EasyMouse

Animated inventory items Animates the inventory items.

    InvObjectsAnimated

Animated game interface Animates the game interface.

    TextWindowAnimated

Naughty game mode Enables naughty game mode.

    NaughtyMode

Graphics dithering Enables graphics dithering.

    GraphicsDithering

23.13 NEVERHOOD

Use original save/load screens Uses the original save/load screens instead of the ScummVM screens.

    originalsaveload

Skip the Hall of Records storyboard scenes Lets the player skip past the Hall of Records story-
board scenes.

    skiphallofrecordsscenes

Scale the making of videos to full screen Scales the making-of videos, so that they use the whole
screen.

    scalemakingofvideos
23.14 QUEEN

Alternate intro  Plays the alternate intro for Flight of the Amazon Queen.

   alt_intro

23.15 SCI

Skip EGA dithering pass (full color backgrounds)  Skips dithering pass in EGA games. Graphics are shown with full colors.

   disable_dithering

Enable high resolution graphics  Enables high resolution graphics and content.

   enable_high_resolution_graphics

Enable black-lined video  Draws black lines over videos to increase their apparent sharpness.

   enable_black_lined_video

Use high-quality video scaling  Uses linear interpolation when upscaling videos, where possible.

   enable_hq_video

Use high-quality “LarryScale” cel scaling  Uses special cartoon scaler for drawing character sprites.

   enable_larryscale

Prefer digital sound effects  Prefers digital (sampled) sound effects instead of synthesized ones.

   prefer_digitalsfx

Use original save/load screens  Uses the original save/load screens instead of the ScummVM screens.

   originalsaveload

Use IMF/Yamaha FB-01 for MIDI output  Uses an IBM Music Feature card or a Yamaha FB-01 FM synth module for MIDI output.

   native_fb01

Use CD audio  Uses CD audio instead of in-game audio, if available.

   use_cdaudio

Use Windows cursors  Uses the Windows cursor (smaller and monochrome) instead of the DOS cursor.

   windows.Cursors
Use silver cursors  Uses the alternate set of silver cursors instead of the normal golden cursors.

    silver_cursors

Upscale videos  Upscales videos to double their size

    enable_video_upscale

Enable content censoring  Enables the game's built-in optional content censoring.

    enable_censoring

## 23.16 SCUMM

Show Object Line  Show the names of objects at the bottom of the screen.

    object_labels

Use NES Classic Palette  Uses a more neutral color palette that closely emulates the NES Classic.

    mm_nes_classic_palette

## 23.17 SHERLOCK

Use original load/save screens  Uses the original save/load screens instead of the ScummVM screens.

    originalsaveload

Pixellated scene transitions  Enables randomized pixel transitions between scenes.

    fade_style

Don’t show hotspots when moving mouse  Only shows hotspot names after you click on a hotspot or action button.

    help_style

Show character portraits  Shows portraits of the characters when the characters converse.

    portraits_on

Slide dialogs into view  Slides UI dialogs into view.

    window_style

Transparent windows  Shows windows with a partially transparent background.

    transparent_windows

TTS Narrator  Uses text-to-speech to read the descriptions, if text-to-speech is available.

    tts_narrator
23.18 SKY

Floppy intro Uses the floppy version’s intro (CD version only)

alt_intro

23.19 SUPERNOVA

Improved mode Removes some repetitive actions, and adds the possibility to change verbs by keyboard.

improved

23.20 TOLTECS

Use original save/load screens Uses the original save/load screens instead of the ScummVM screens.

originalsavload

23.21 WINTERMUTE

Show FPS-counter Shows the current number of frames per second in the upper left corner.

show_fps

Sprite bilinear filtering (SLOW) Applies bilinear filtering to individual sprites.

bilinear_filtering
23.22 XEEN

Show item costs in standard inventory mode Shows item costs in standard inventory mode, which lets the value of items be compared.

ShowItemCosts

More durable armor Armor won’t break until character is at -80HP, instead of the default -10HP.

DurableArmor
Chapter 24

Backend

Use the Backend tab to change settings that are unique to the platform being used. This tab is not available for all platforms.

To change settings globally:
From the Launcher, select Options, then select the Backend tab.

To change settings for a specific game:
Highlight the game in the games list, select Edit Game, then select the Backend tab.

For a comprehensive look at how to use these settings, check out the individual platform guides.
Chapter 25

Graphics

Use the Graphics tab to change how games look when they are played.

To change settings globally:

From the Launcher, select Options. The Graphics tab is the first tab shown.

To change settings for a specific game:

Highlight the game in the games list, select Edit Game then select the Graphics tab.

For a comprehensive look at how to use these settings, check out our Understanding the graphics settings guide.

All settings can also be changed in the Configuration file. The configuration key is listed in italics after each setting description.

Graphics mode Changes the resolution of the game, while also selecting which filter is used to scale up the resolution. For example, a 2x graphics mode will take a 320x200 resolution game and scale it up to 640x400.

gfx_mode

Render mode Changes how the game is rendered.

render_mode

Stretch mode Changes the way the game is displayed in relation to the window or screen size.

stretch_mode

Aspect ratio correction If ticked, corrects the aspect ratio so that games appear the same as they would on original 320x200 resolution displays.

aspect_ratio

Fullscreen mode Switches between playing games in a window, or playing them in fullscreen mode. Switch between the two by using Alt+F5 while in a game.

fullscreen
Fig. 1: The Graphics tab in the global settings
Filter graphics If ticked, uses bilinear interpolation instead of nearest neighbor resampling for the aspect ratio correction and stretch mode. It does not affect the graphics mode.

V-Sync in 3D games If ticked, synchronizes the frame rate of a game with the monitor’s refresh rate to prevent screen tearing.

Game 3D renderer Changes how a 3D game is rendered. This setting has no effect on 2D games.
- OpenGL: renders on hardware (uses the GPU)
- OpenGL with shaders: renders on hardware with shader support
- Software: renders on software (uses the CPU).

3D Anti-aliasing Changes the anti-aliasing method. The number refers to how many samples are taken per pixel; 8x takes 8 samples per pixel and is the most accurate, but is also the most processor-intensive option.
Chapter 26

Control

Use the Control tab to change settings for joysticks, game controllers, and touch screens. This tab is not always available.

From the Launcher, select Options, and then select the Control tab.

All settings can also be changed in the Configuration file. The configuration key is listed in italics after each setting description.

---

**Pointer Speed**  Sets the speed for the mouse pointer, when it is controlled by the keyboard or a joystick.

`kbdmouse_speed`

**Joy deadzone**  Sets the deadzone for an analog joystick. A lower value will reduce the size of the deadzone.

`joystick_deadzone`

**Touchpad mouse mode**  Toggles between direct mode and touchpad mode.
Fig. 1: The Control tab in the global settings
Chapter 27

Keymaps

Use the Keymaps tab to assign actions to keyboard keys or shortcuts, or to mouse or joystick buttons.

To change settings globally:

From the Launcher, select Options, then select the Keymaps tab.

To change settings for a specific game:

Highlight the game in the games list, select Edit Game then select the Keymaps tab.

All settings can also be changed in the Configuration file. The configuration key is listed in italics after each setting description.

Click on the button next to the desired action to add an additional key or button. Click on the dropdown expander for more options.

If all the mapped keys are not visible, hold the pointer over the button to see all the mapped keys.

Reset  Resets all keymaps to default.
Reset to defaults  Resets the keymaps for that action to default.
Clear mapping  Clears all keymaps for that action.

27.1 Global settings

The following are the available global keymap options. Listed in italics are the configuration keywords. For more information, see the Configuration file page.
Fig. 1: The Keymaps tab in the global settings
Fig. 2: The Keymaps dropdown options.

27.1. Global settings
27.1.1 Global

Global Main Menu  keymap_global_MENU
Toggle mute  keymap_global_MUTE
Quit  keymap_global_QUIT
Open Debugger  keymap_global_DEBUGGER
Virtual mouse up  keymap_global_VMOUSEUP
Virtual mouse down  keymap_global_VMOUSEDOWN
Virtual mouse left  keymap_global_VMOUSELEFT
Virtual mouse right  keymap_global_VMOUSERIGHT
Slow down virtual mouse  keymap_global_VMOUSESLOW

27.1.2 Graphics

Toggle fullscreen  keymap_sdl-graphics_FULS
Toggle mouse capture  keymap_sdl-graphics_CAPT
Save screenshot  keymap_sdl-graphics_SCRS
Toggle aspect ratio correction  keymap_sdl-graphics_ASPT
Toggle linear filtered scaling  keymap_sdl-graphics_FILT
Cycle through stretch modes  keymap_sdl-graphics_STCH
Increase the scale factor  keymap_sdl-graphics_SCL+
Decrease the scale factor  keymap_sdl-graphics_SCL-
Switch to nearest neighbour scaling  keymap_sdl-graphics_FLT1
Switch to AdvMame 2x/3x scaling  keymap_sdl-graphics_FLT2
Switch to HQ 2x/3x scaling  keymap_sdl-graphics_FLT3
Switch to 2XSai scaling  keymap_sdl-graphics_FLT4
Switch to Super2xSai scaling  keymap_sdl-graphics_FLT5
Switch to SuperEagle scaling  keymap_sdl-graphics_FLT6
Switch to TV 2x scaling  keymap_sdl-graphics_FLT7
Switch to DotMatrix scaling  keymap_sdl-graphics_FLT8
27.1.3 GUI

Interact  keymap_gui_INTRCT
Close  keymap_gui_CLOS
Up  keymap_gui_UP
Down  keymap_gui_DOWN
Left  keymap_gui_LEFT
Right  keymap_gui_RIGHT

27.2 Game settings

The following are the available keymap game-specific keymaps options. Listed in italics are the configuration keywords. For more information, see the Configuration file page.

27.2.1 Default game keymap

Left mouse button  keymap_engine-default_LCLK
Middle click  keymap_engine-default_MCLK
Right click  keymap_engine-default_RCLK
Pause  keymap_engine-default_PAUSE
Game menu  keymap_engine-default_MENU
Skip  keymap_engine-default_SKIP
Skip line  keymap_engine-default_SKLI
Predictive input dialog  keymap_engine-default_PIND
Confirm  keymap_engine-default_RETURN
Up  keymap_engine-default_UP
Down  keymap_engine-default_DOWN
Left  keymap_engine-default_LEFT
Right  keymap_engine-default_RIGHT
Chapter 28

Audio

Audio settings are found on four tabs:

Audio | Volume | MIDI | MT-32

To change settings globally:

From the Launcher, select Options, then select the applicable tab.

To change settings for a specific game:

From the Launcher, highlight the game in the games list, select Edit Game, and then select the applicable tab.

For a comprehensive look at how to use ScummVM’s extensive audio settings, check out our Understanding the audio settings guide.

All settings can also be changed in the Configuration file. The configuration key is listed in italics after each setting description.

28.1 The Audio tab

Use the Audio tab to change the sound output for games.

---

Preferred device (global settings) or Music device (game-specific settings) Specifies the device ScummVM uses to output audio. When set to <default>, ScummVM automatically chooses the most appropriate option for the played game. If set to an MT-32 or a MIDI device, or if ScummVM chooses one of these automatically, the settings on the MT-32 or MIDI tabs also apply.

\[music\_driver\]

AdLib Emulator Chooses which emulator is used by ScummVM when the AdLib emulator is chosen as the Preferred device.

\[opl\_driver\]
Fig. 1: The Audio tab in the global settings
Fig. 2: The Audio tab in the game-specific settings.
Text and Speech  For games with digitized speech, this setting lets the user decide whether to play the game with speech only, subtitles only, or both.

speech_mute
subtitles

Subtitle speed  Adjusts the length of time that the subtitles are displayed on screen. The lower the speed is set, the longer the subtitles are displayed.

talkspeed

28.2 The Volume tab

Use the Volume tab to set the relative volumes for various in-game sounds.

Fig. 3: The Volume tab in the game-specific settings.
**Music volume** Adjusts the volume of the music in the game.

```
music_volume
```

**SFX volume** Adjusts the volume of the sound effects in the game.

```
sfx_volume
```

**Speech volume** Adjusts the volume of the digitized speech in the game, if it has any.

```
speech_volume
```

**Mute All** Mutes all game audio.

```
mute
```

---

# 28.3 The MIDI tab

Use the MIDI tab to change the settings of General MIDI (GM) devices.

---

**GM Device** Specifies a preferred General MIDI device, which ScummVM uses if the Preferred device is set to `<default>` and General MIDI playback is required.

```
gm_device
```

**Soundfont** Specifies the path to a soundfont file, if this is required by the GM device.

```
soundfont
```

**Mixed AdLib/MIDI mode** Combines MIDI music with AdLib sound effects.

```
multi_midi
```

**MIDI gain** Adjusts the relative volume of the MIDI music. This is only supported by some music devices.

```
midi_gain
```

## 28.3.1 FluidSynth

Opens a new dialog, with three further tabs: Reverb | Chorus | Misc

**Reverb**

Reverberation, or reverb, describes the pattern of echoes and reflections that occur when a sound is heard in an enclosed closed space, such as a room or a concert hall.

**Active** If ticked, reverb is added to the software synthesizer output.

```
fluidsynth_reverb_activate
```
28.3. The MIDI tab

Fig. 4: The MIDI tab in the global settings.
Fig. 5: The FluidSynth dialog, reached from the MIDI tab.
**Room** Sets the room size, which determines how much reverb there is.

`fluidsynth_reverb_roomsize`

**Damp** Dampens higher-frequency reverb, which produces a warmer sound.

`fluidsynth_reverb_damping`

**Width** Sets the stereo spread of the reverb signal.

`fluidsynth_reverb_width`

**Level** Sets the reverb output amplitude.

`fluidsynth_reverb_level`

---

**Chorus**

The chorus effect thickens and colors the audio signal so that it sounds as if there are a chorus of instruments playing one part.

**Active** If ticked, chorus effects are added to the software synthesizer output.

`fluidsynth_chorus_activate`

**N** Sets the voice count of the chorus, in other words, how many instruments are playing one part.

`fluidsynth_chorus_nr`

**Level** Specifies the output amplitude of the chorus signal.

`fluidsynth_chorus_level`

**Speed** Sets the modulation speed of the output, in Hz.

`fluidsynth_chorus_speed`

**Depth** Specifies the modulation depth of the chorus.

`fluidsynth_chorus_depth`

**Type** Specifies the chorus modulation waveform type.

`fluidsynth_chorus_waveform`
Misc

**Interpolation** Sets the interpolation method used by the software synthesizer.

`fluidsynth_misc_interpolation`

---

### 28.4 The MT-32 tab

Use the MT-32 tab to change the settings of Roland MT-32 devices.

![MT-32 Tab in ScummVM](image)

Fig. 6: The MT-32 tab in the global settings.

**MT-32 Device** Specifies a preferred MT-32 device, which ScummVM uses if the **Preferred device** is set to `<default>` and MT-32 playback is required.

`mt32_device`
**True Roland MT-32 (disable GM emulation)**  Tells ScummVM that the MIDI device is an actual Roland MT-32, LAPC-I, CM-64, CM-32L, CM-500 or other MT-32 device. Note that this cannot be used in conjunction with the Roland GS device option.

`native_mt32`

**Roland GS device (enable MT-32 mappings)**  Tells ScummVM that the MIDI device is a GS device that has an MT-32 map, such as an SC-55, SC-88 or SC-8820. Note that this cannot be used in conjunction with the True Roland MT-32 option.

`enable_gs`
Chapter 29

Paths

Use the Paths tab to tell ScummVM where to look for files.

To change settings globally:

From the Launcher, select Options, then select the Paths tab.

To change settings for a specific game:

Highlight the game in the games list, select Edit Game then select the Paths tab.

All settings can also be changed in the Configuration file. The configuration key is listed in italics after each setting description.

Save Path Sets the path to the folder in which ScummVM stores saved games. For more information on the default location of saved games, see the Save and Load games page, or the guide for the platform you're using.

```
savepath
```

Theme Path Sets the path to the folder in which ScummVM stores additional themes.

```
themepath
```

Extra Path Sets the path to the folder in which ScummVM will look for various extra files. These could include additional datafiles required for certain games, Soundfonts or MT-32 ROMs.

```
extrapath
```
Fig. 1: The Paths tab in the global settings
Chapter 30

Miscellaneous

Use the Misc tab to change miscellaneous settings that don’t belong on any of the other tabs.

From the Launcher, select **Options**, click the > scroll arrow until the Misc tab is visible, and then select the **Misc** tab.

![Fig. 1: The Misc tab in the global settings.](image)

All settings can also be changed in the *Configuration file*. The configuration key is listed in italics after each setting description.
Theme  Changes the visual appearance of the ScummVM Launcher

\texttt{gui\_theme}

GUI Renderer  Defines how the ScummVM GUI is rendered; normal or antialiased.

\texttt{gui\_renderer}

Autosave  Adjusts the time period between autosaves. The default setting is 5 minutes.

\texttt{autosave\_period}

GUI Language  Chooses the language of the ScummVM Launcher.

\texttt{gui\_language}

Switch the ScummVM GUI language to the game language  If ticked, the Launcher language is the same as the game language.

\texttt{gui\_use\_game\_language}

Use native system file browser  Uses the system file browser instead of the ScummVM browser.

\texttt{gui\_browser\_native}

Always return to the launcher when leaving a game  If ticked, removes the Quit option from the Global Main Menu. Only the Return to Launcher option remains.

\texttt{gui\_return\_to\_launcher\_at\_exit}

Ask for confirmation on exit  If ticked, a confirmation dialog appears when you choose Quit or Return to Launcher from the Global Main Menu.

\texttt{confirm\_exit}
Chapter 31

Cloud

Use the Cloud tab to manage connected cloud storage services.

For a comprehensive look at how to use ScummVM's built-in cloud functionality, check out our Connecting a cloud service guide.

From the Launcher, select Options, click the > scroll arrow until the Cloud tab is visible, and then select the Cloud tab.

Active storage  Choose from Dropbox, OneDrive, Google Drive, or Box.

After a Cloud service has been selected, further options are available:

Sync Now  Manually syncs saved games with the cloud service. Saved games automatically sync on launch, after saving, and on game load.

Download game files  Downloads game files from your Cloud ScummVM folder.

Disconnect  Disconnects the cloud storage account. To change accounts, disconnect and connect a new account.

Note:  Cloud functionality is not supported on all platforms.
Fig. 1: The Cloud tab in the global settings
Chapter 32

LAN

Use the LAN tab to control the Local Area Network (local web server).

For a comprehensive look at how to use ScummVM's built-in LAN functionality, check out our *Using the local web server* guide.

From the Launcher, select **Options**, click the > scroll arrow until the LAN tab is visible, and then select the **LAN** tab.

All settings can also be changed in the *Configuration file*. The configuration key is listed in italics after each setting description.

---

**Run server** Starts the web server. When running, this displays the URL at which the web server can be accessed.

**Stop server** Stops the web server.

**Server's port** The port on which the web server is available.

  *local_server_port*

**/root/ Path** Specifies the root path of the server. Any sub-directories will be accessible.

  *rootpath*
Fig. 1: The LAN tab in the global settings
Chapter 33

Accessibility

Use the Accessibility tab to change accessibility settings.

From the Launcher, select **Options**, click the > scroll arrow until the LAN tab is visible, and then select the **LAN** tab.

All settings can also be changed in the **Configuration file**. The configuration key is listed in italics after each setting description.

---

**Use Text to Speech** Enables text to speech. As the pointer is held over any text field in the Launcher it is converted to speech. Use the dropdown list to choose from a variety of voices.

  *tts_enabled*
Fig. 1: The Accessibility tab in the global settings.
Chapter 34

Command line interface

Launching ScummVM from the command line lets you pass a number of options, some of which override the applicable global or game-specific settings. It also lets you launch straight into a game without going to the Launcher first.

Some options, such as --help or --list-audio-devices, allow you to view information about ScummVM directly on the command line without starting the Launcher or starting a game.

34.1 Usage

To launch ScummVM, enter the path to ScummVM. Optionally, follow this with any of the options documented below, and/or the path to the game you wish to start. If a game has already been added to the games list in the Launcher, you can pass the game id instead of the path to the game.

**Windows**

The following examples assume that the path to ScummVM is `C:\Program Files\ScummVM\scummvm. exe`.

To run Monkey Island, fullscreen (-f):

```
C:\Program Files\ScummVM\scummvm.exe -f monkey
```

To run Full Throttle, fullscreen (-f) and with subtitles enabled (-n), specifying the path to the game on a CD (-p):

```
C:\Program Files\ScummVM\scummvm.exe -f -n -pD:\"resource\"ft
```
macOS

The following examples assume the path to the ScummVM app is `Applications/ScummVM.app`.

If you are unsure of the path to the app, drag the ScummVM app icon into the Terminal window. This prints the path to the ScummVM app.

To run ScummVM from the command line, add `/Contents/MacOS/scummvm` to that path.

To run Monkey Island, fullscreen (-f):

```
/Applications/ScummVM.app/Contents/MacOS/scummvm -f monkey
```

To run Full Throttle, fullscreen (-f) and with subtitles enabled (-n), specifying the path to the game on a CD (-p):

```
/Applications/ScummVM.app/Contents/MacOS/scummvm -f -n -p/cdrom/resource/ft
```

Linux

The following examples assume the path to ScummVM is `/usr/games/scummvm`.

To run Monkey Island, fullscreen (-f):

```
/usr/games/scummvm -f monkey
```

To run Full Throttle, fullscreen (-f) and with subtitles enabled (-n), specifying the path to the game on a CD (-p):

```
/usr/games/scummvm -f -n -p/cdrom/resource/ft
```

**Tip:** If ScummVM is on PATH, there is no need to enter the full path to ScummVM. Similarly, if a game is already added to the Launcher, there is no need to specify the path to the game.

### 34.2 Options

The meaning of most options can be inverted by prefixing them with `no-`. For example, `--no-aspect-ratio` will turn aspect ratio correction off. This does not apply to short options.

Option parameters are shown below in capitals, and need to be replaced with real values.

Short options are listed where they are available.
<table>
<thead>
<tr>
<th>Option</th>
<th>Short</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>--add</code></td>
<td>-a</td>
<td>Adds all games from current or specified directory.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If <code>--game=NAME</code> is passed, only the game with id NAME is added.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See also <code>--detect</code>. Use <code>--path=PATH</code> before <code>--add</code> to specify a directory.</td>
</tr>
<tr>
<td><code>--alt-intro</code></td>
<td></td>
<td>Uses alternative intro for CD versions</td>
</tr>
<tr>
<td><code>--aspect-ratio</code></td>
<td></td>
<td>Enables aspect ratio correction</td>
</tr>
<tr>
<td><code>--auto-detect</code></td>
<td></td>
<td>Displays a list of games from the current or specified directory and starts the first game. Use <code>--path=PATH</code> before <code>--auto-detect</code> to specify a directory.</td>
</tr>
<tr>
<td><code>--boot-param=NUM</code></td>
<td>-b</td>
<td>Pass number to the boot script (boot param).</td>
</tr>
<tr>
<td><code>--cdrom=DRIVE</code></td>
<td></td>
<td>Sets the CD drive to play CD audio from. This can be a drive, path, or numeric index (default: 0).</td>
</tr>
<tr>
<td><code>--config=FILE</code></td>
<td>-c</td>
<td>Uses alternate configuration file</td>
</tr>
<tr>
<td><code>--console</code></td>
<td></td>
<td>Enables the console window (default: enabled). Win32 and Symbian32 only.</td>
</tr>
<tr>
<td><code>--copy-protection</code></td>
<td></td>
<td>Enables copy protection</td>
</tr>
<tr>
<td><code>--debug-channels-only</code></td>
<td></td>
<td>Shows only the specified debug channels</td>
</tr>
<tr>
<td><code>--debugflags=FLAGS</code></td>
<td></td>
<td>Enables engine specific debug flags</td>
</tr>
<tr>
<td><code>--debuglevel=NUM</code></td>
<td>-d</td>
<td>Sets debug verbosity level</td>
</tr>
<tr>
<td><code>--demo-mode</code></td>
<td></td>
<td>Starts demo mode of Maniac Mansion or The 7th Guest</td>
</tr>
<tr>
<td><code>--detect</code></td>
<td></td>
<td>Displays a list of games with their game id from the current or specified directory. This does not add the game to the games list. Use <code>--path=PATH</code> before <code>--detect</code> to specify a directory.</td>
</tr>
<tr>
<td><code>--dimuse-tempo=NUM</code></td>
<td></td>
<td>Sets internal Digital iMuse tempo (10 - 100) per second (default: 10)</td>
</tr>
<tr>
<td><code>--engine-speed=NUM</code></td>
<td></td>
<td>Sets frames per second limit (0 - 100) for Grim Fandango or Escape from Monkey Island (default: 60).</td>
</tr>
<tr>
<td><code>--dump-scripts</code></td>
<td>-u</td>
<td>Enables script dumping if a directory called ‘dumps’ exists in the current directory</td>
</tr>
<tr>
<td><code>--enable-gs</code></td>
<td></td>
<td>Enables Roland GS mode for MIDI playback</td>
</tr>
<tr>
<td><code>--extrapath=PATH</code></td>
<td></td>
<td>Extra path to additional game data</td>
</tr>
<tr>
<td><code>--filtering</code></td>
<td></td>
<td>Forces filtered graphics mode</td>
</tr>
<tr>
<td><code>--fullscreen</code></td>
<td>-f</td>
<td>Forces full-screen mode</td>
</tr>
<tr>
<td><code>--game=NAME</code></td>
<td></td>
<td>In combination with <code>--add</code> or <code>--detect</code> only adds or attempts to detect the game with id NAME.</td>
</tr>
<tr>
<td><code>--gfx-mode</code></td>
<td>-g</td>
<td>Selects graphics mode</td>
</tr>
<tr>
<td>Option</td>
<td>Short</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>--gui-theme=THEME</td>
<td></td>
<td>Selects GUI theme</td>
</tr>
<tr>
<td>--help</td>
<td>-h</td>
<td>Displays a brief help text and exit</td>
</tr>
<tr>
<td>--joystick=NUM</td>
<td></td>
<td>Enables joystick input (default: 0 = first joystick)</td>
</tr>
<tr>
<td>--language</td>
<td>-q</td>
<td>Selects language (en, de, fr, it, pt, es, jp, zh, kr, se, gb, hb, ru, cz)</td>
</tr>
<tr>
<td>--list-audio-devices</td>
<td></td>
<td>Lists all available audio devices</td>
</tr>
<tr>
<td>--list-saves --game=TARGET</td>
<td></td>
<td>Displays a list of saved games for the game (TARGET) specified</td>
</tr>
<tr>
<td>--list-targets</td>
<td>-t</td>
<td>Displays list of configured targets and exits</td>
</tr>
<tr>
<td>--list-themes</td>
<td></td>
<td>Displays list of all usable GUI themes</td>
</tr>
<tr>
<td>--logfile=PATH</td>
<td>-l</td>
<td>Uses alternate path for log file (SDL backend only).</td>
</tr>
<tr>
<td>--midi-gain=NUM</td>
<td></td>
<td>Sets the gain for MIDI playback. 0-1000 (default: 100). Only supported by some MIDI drivers</td>
</tr>
<tr>
<td>--multi-midi</td>
<td></td>
<td>Enables combination AdLib and native MIDI</td>
</tr>
<tr>
<td>--music-driver=MODE</td>
<td>-e</td>
<td>Selects preferred music device</td>
</tr>
<tr>
<td>--music-volume=NUM</td>
<td>-m</td>
<td>Sets the music volume, 0-255 (default: 192)</td>
</tr>
<tr>
<td>--native-mt32</td>
<td></td>
<td>True Roland MT-32 (disables GM emulation)</td>
</tr>
<tr>
<td>--no-filtering</td>
<td></td>
<td>Forces unfiltered graphics mode</td>
</tr>
<tr>
<td>--no-fullscreen</td>
<td>-F</td>
<td>Forces windowed mode</td>
</tr>
<tr>
<td>--opl-driver=DRIVER</td>
<td></td>
<td>Selects AdLib (OPL) emulator</td>
</tr>
<tr>
<td>--output-rate=RATE</td>
<td></td>
<td>Selects output sample rate in Hz</td>
</tr>
<tr>
<td>--platform=STRING</td>
<td></td>
<td>Specifies platform of game. Allowed values: 2gs, 3do, acorn, amiga, atari, c64, fmtowns, nes, mac, pc pc98, pce, segacd, wii, windows.</td>
</tr>
<tr>
<td>--recursive</td>
<td></td>
<td>In combination with --add or `--detect recurses down all subdirectories</td>
</tr>
<tr>
<td>--render-mode=MODE</td>
<td></td>
<td>Enables additional render modes</td>
</tr>
<tr>
<td>--save-slot=NUM</td>
<td>-x</td>
<td>Specifies the saved game slot to load (default: autosave)</td>
</tr>
<tr>
<td>--savepath=PATH</td>
<td></td>
<td>Specifies path to where saved games are stored</td>
</tr>
<tr>
<td>--sfx-volume=NUM</td>
<td>-s</td>
<td>Sets the sfx volume, 0-255 (default: 192)</td>
</tr>
<tr>
<td>--soundfont=FILE</td>
<td></td>
<td>Selects the SoundFont for MIDI playback. Only supported by some MIDI drivers</td>
</tr>
<tr>
<td>--speech-volume=NUM</td>
<td>-r</td>
<td>Sets the speech volume, 0-255 (default: 192)</td>
</tr>
<tr>
<td>--subtitles</td>
<td>-n</td>
<td>Enables subtitles</td>
</tr>
<tr>
<td>--talkspeed=NUM</td>
<td></td>
<td>Sets talk speed for games (default: 60)</td>
</tr>
<tr>
<td>--tempo=NUM</td>
<td></td>
<td>Sets music tempo (in percent, 50-200) for SCUMM games (default: 100)</td>
</tr>
<tr>
<td>--themepath=PATH</td>
<td></td>
<td>Specifies path to where GUI themes are stored</td>
</tr>
</tbody>
</table>

continues on next page
Table 1 – continued from previous page

<table>
<thead>
<tr>
<th>Option</th>
<th>Short</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>--version</td>
<td>-v</td>
<td>Displays ScummVM version information and exits</td>
</tr>
</tbody>
</table>
Chapter 35

Configuration file

The configuration file provides a way to edit both global and game-specific settings. It is a text file containing configuration keys and parameters.

Settings are also accessible directly from the Launcher. See Changing settings.

35.1 Location

The configuration file saves to different default locations, depending on the platform. The configuration file path is also displayed on the Paths tab.

Windows

95/98/ME
C:\WINDOWS\scummvm.ini

Windows NT4
C:\WINDOWS\Profiles\username\Application Data\ScummVM\scummvm.ini

Windows 2000/XP
Documents and Settings\username\Application Data\ScummVM\scummvm.ini

Window Vista/7/8/10
%APPDATA%\ScummVM\scummvm.ini
macOS

~/Library/Preferences/ScummVM Preferences

**Note:** If an earlier version of ScummVM was installed on your system, the configuration file remains in the previous default location of ~/.scummvmrc.

**Tip:** To see the Library folder, press Option when clicking Go in the Finder menu.

Linux

ScummVM follows the XDG Base Directory Specification, so by default the configuration file is found at ~/.config/scummvm/scummvm.ini, but its location might vary depending on the value of the XDG_CONFIG_HOME environment variable.

If ScummVM was installed using Snap, the configuration file is found at ~/snap/scummvm/current/.config/scummvm/scummvm.ini

**Note:** .config is a hidden directory. To view it use `ls -a` on the command line.

### 35.2 Using the configuration file

Global settings are listed under the [scummvm] heading. Global *keymaps settings* are listed under the [keymapper] heading. Game-specific settings, including keymaps, are listed under the heading for that game, for example [queen] for Flight of the Amazon Queen. Use the configuration keys to change settings.

#### 35.2.1 Example of a configuration file

```
[scummvm]
gfx_mode=supereagle
game=fullscreen=true
savepath=C:\saves\ 

[sky]
path=C:\games\SteelSky\ 

[germansky]
gameid=sky
language=de
path=C:\games\SteelSky\ 
```

(continues on next page)
35.3 Configuration keys

There are many recognized configuration keys. In the table below, each key is either linked to an explanatory description in the Settings pages, or has further information in the Description/Options column.

<table>
<thead>
<tr>
<th>Key</th>
<th>Type</th>
<th>Default</th>
<th>Description/Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>alsa_port</td>
<td>integer</td>
<td></td>
<td>Specifies which ALSA port ScummVM uses when using the ALSA music driver (Linux).</td>
</tr>
<tr>
<td>alt_intro</td>
<td>boolean</td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>altamigapalette</td>
<td>boolean</td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>antialiasing</td>
<td>integer</td>
<td>0</td>
<td>0, 2, 4, 8</td>
</tr>
<tr>
<td>apple2gs_speedmenu</td>
<td>boolean</td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>aspect_ratio</td>
<td>boolean</td>
<td>false</td>
<td></td>
</tr>
</tbody>
</table>

continues on next page
<table>
<thead>
<tr>
<th>Key</th>
<th>Type</th>
<th>Default</th>
<th>Description/Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>audio_buffer_size</td>
<td>integer</td>
<td>Calculated based on output sampling frequency to keep audio latency below 45ms.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Overrides the size of the audio buffer. Allowed values:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 256</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 512</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 1024</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 2048</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 4096</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 8192</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 16384</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 32768</td>
</tr>
<tr>
<td>autosave_period</td>
<td>integer</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>auto_savenames</td>
<td>boolean</td>
<td>false</td>
<td>Automatically generates names for saved games</td>
</tr>
<tr>
<td>bilinear_filtering</td>
<td>boolean</td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>boot_param</td>
<td>integer</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>bright_palette</td>
<td>boolean</td>
<td>true</td>
<td></td>
</tr>
<tr>
<td>cdrom</td>
<td>integer</td>
<td>0</td>
<td>Sets which CD drive to play CD audio from (as a numeric index). If a negative num-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ber is set, ScummVM does not access the CD drive.</td>
</tr>
<tr>
<td>color</td>
<td>boolean</td>
<td></td>
<td></td>
</tr>
<tr>
<td>commandpromptwid-</td>
<td>boolean</td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>dows</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>confirm_exit</td>
<td>boolean</td>
<td>false</td>
<td>Enables the console window for Win32/Symbian32.</td>
</tr>
<tr>
<td>console</td>
<td>boolean</td>
<td>true</td>
<td></td>
</tr>
<tr>
<td>controller_map_db</td>
<td>string</td>
<td>gamecontrollerdb.txt is loaded from the specified extrapath</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Specifies the custom controller mapping file to load to complete the default</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>database (SDL backend only).</td>
</tr>
<tr>
<td>copy_protection</td>
<td>boolean</td>
<td>false</td>
<td>Enables copy protection</td>
</tr>
<tr>
<td>demo_mode</td>
<td>boolean</td>
<td>false</td>
<td>Starts demo mode of Maniac Mansion or the 7th Guest</td>
</tr>
</tbody>
</table>

continues on next page
### Table 1 – continued from previous page

<table>
<thead>
<tr>
<th>Key</th>
<th>Type</th>
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<td>Sets internal Digital iMuse tempo per second; 0 - 100</td>
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<tr>
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<td>enable_hq_video</td>
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<td>enable_larryscale</td>
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<td>enable_reporter</td>
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<td>RISC OS only.</td>
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<td>enable_unsupported_game_warnings</td>
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<td>true</td>
<td>Shows a warning when adding a game that is unsupported.</td>
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<td>extra</td>
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<td>Shows additional information about a game, such as version</td>
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<td>floating cursors</td>
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<tr>
<td>fluidsynth_chorus_depth</td>
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<td>• 0 - 210</td>
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<td>fluidsynth_chorus_level</td>
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<td>• 0 - 100</td>
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continues on next page
Table 1 – continued from previous page

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<td>10 - 500</td>
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<td>Sine</td>
<td>sine, triangle</td>
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<td>4th</td>
<td>none, 4th, 7th, linear.</td>
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Short name of the game. For internal use only, do not edit.

Specifies the path to the game. Continues on next page
### Table 1 – continued from previous page

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<thead>
<tr>
<th>Key</th>
<th>Type</th>
<th>Default</th>
<th>Description/Options</th>
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</thead>
</table>
| gfx_mode             | string  | normal (1x)      | • 1x  
• 2x  
• 3x  
• 2xsai  
• super2xsai  
• supereagle  
• advmame2x  
• advmame3x  
• hq2x  
• hq3x  
• tv2x  
• dot-matrix  
• opengl |
| gm_device            | string  | null             | • auto  
• alsa  
• seq  
• sndio  
• fluidsynth  
• timidity |
| GraphicsDithering    | boolean | true             |                                                          |
| gui_browser_native   | boolean | true             |                                                          |
| gui_browser_show_hidden | boolean | false           | Shows hidden files/folders in the ScummVM file browser. |
| gui_list_max_scan_entries | integer | -1              | Specifies the threshold for scanning directories in the Launcher. If the number of game entries exceeds the specified number, then scanning is skipped. |
| gui_return_to_launcher | boolean | false           |                                                          |
| gui_saveload_chooser | string  | grid            | • list  
• grid |
<p>| gui_saveload_last_pos | string  | 0               |                                                          |
| gui_use_game_language | boolean |                 | continues on next page                                  |</p>
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<th>Description/Options</th>
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<td>boolean</td>
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<tr>
<td>hpbargraphs</td>
<td>boolean</td>
<td>true</td>
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</tr>
<tr>
<td>hypercheat</td>
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<td>joystick_num</td>
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<td>Enables joystick input and selects which joystick to use. The default is the first joystick.</td>
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<td>MOUSE_LEFT JOY_A</td>
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<td>keymap_engine_default_MENU</td>
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<td>F5      JOY_LEFT_SHOULDER</td>
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<tr>
<td>keymap_engine_default_PAUSE</td>
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<td>keymap_engine_default_RCLK</td>
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<td>MOUSE_RIGHT JOY_B</td>
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<tr>
<td>keymap_engine_default_RETURN</td>
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<td>RETURN</td>
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<td>keymap_global_MUTE</td>
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<td>C+u</td>
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<tr>
<td>keymap_global_MENU</td>
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<td>C+F5 JOY_START</td>
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35.3. Configuration keys
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<td>Key</td>
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<td>-------------------------</td>
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<td>---------</td>
<td>-------------------------------------------------------------------------------------</td>
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<td>music_driver [game]</td>
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<td>The same options as music_driver in [scummvm] plus:</td>
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<td>• towns</td>
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<td>• C64</td>
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<td>• segacd</td>
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<td>music_mute</td>
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<td>Mutes the game music.</td>
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<td>• mame</td>
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<td></td>
<td>• db</td>
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<td>• nuked</td>
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<td>• alsa</td>
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<td>• op2lpt</td>
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<td>• op3lpt</td>
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### Table 1 – continued from previous page

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| **render_mode**            | string  | default | • hercGreen
• hercAmber
• cga
• ega
• vga
• amiga
• fmtowns
• pc9821
• pc9801
• 2gs
• atari
• macintosh |
| **rootpath**               | string  |         |                                                         |
| **savepath**               | string  |         |                                                         |
| **save_slot**              | integer | autosave| Specifies the saved game slot to load                  |
| **scalemakingofvideos**    | boolean | false   |                                                         |
| **scanlines**              | boolean | false   |                                                         |
| **screenshotpath**         | string  |         | Specifies where screenshots are saved                   |
| **sfx_mute**               | boolean | false   | Mutes the game sound effects.                          |
| **sfx_volume**             | integer | 192     |                                                         |
| **shorty**                 | boolean | false   |                                                         |
| **show_fps**               | boolean | false   |                                                         |
| **ShowItemCosts**          | boolean | false   |                                                         |
| **silver.Cursors**         | boolean | false   |                                                         |
| **sitcom**                 | boolean | false   |                                                         |
| **skip_support**           | boolean | true    |                                                         |
| **skiphallofrecordsscenes**| boolean | false   |                                                         |
| **smooth_scrolling**       | boolean | true    |                                                         |
| **speech_mute**            | boolean | false   |                                                         |
| **speech_volume**          | integer | 192     |                                                         |
| **stretch_mode**           | string  |         | • center
• pixel-perfect
• fit
• stretch
• fit_force_aspect |
| **studio_audience**        | boolean | true    |                                                         |

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<td>• 0 - 255</td>
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<td>Sets the music tempo, in percent, for SCUMM games. • 50-200</td>
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</tr>
</tbody>
</table>
Chapter 36

Understanding the audio settings

This guide expands on the information contained on the audio settings page.

36.1 How do the audio settings work together?

The Preferred device in the global settings Audio tab, or the Music device in the game-specific settings Audio tab, specifies the device that ScummVM uses to output audio. This device can be an emulated sound device or a software synthesizer, or an actual hardware device such as a soundcard or a hardware MIDI synthesizer. When set to <default>, ScummVM will automatically choose the most appropriate option for the played game.

If Preferred device or Music device is set to <default> and ScummVM chooses either an MT-32 or General MIDI device automatically, the settings on the MT-32 or MIDI tabs also apply, and the devices selected on these tabs are the ones that will be used. If Preferred device or Music device is set to either an MT-32 device or a GM device, ScummVM will use that device and ignore the devices chosen on the MT-32 and MIDI tabs.

Not all settings are applicable to all games. For example, changing the General MIDI settings will not have any effect on a game that only has CD audio.

36.2 The evolution of PC audio

For a look at the evolution of PC audio, see this video on YouTube, or this excellent post.

Many of these old-school audio devices can be emulated by ScummVM:

- PC Speaker: emulates the built-in PC speaker. This is mostly supported by older games, and was the only option before sound cards became widely used.
  
  pcspk

- IBM PCjr: emulates the sound of the 1984 IBM PCjr computer, which, enhanced with a Texas Instruments chip, provided three-voice sound and a white noise generator.
  
  pcjr
• Creative Music System (C/MS): emulates the first sound card developed by Creative Technology (later Creative Labs), the precursor to the SoundBlaster line of sound cards. The C/MS provided 12 channels of square-wave stereo sound.

• C64 Audio: emulates the sound chip (Sound Interface Device) in the Commodore 64 computer. The SID was a three-voice synthesizer module, with a fourth voice for sampled drums or speech.

• Amiga Audio: emulates the Amiga audio chip, Paula, which had four 8-bit PCM sound channels.

• FM-Towns Audio: emulates the audio of the FM Towns PC. Games on FM Towns computers often used audio CD standard tracks. The soundchips were capable of eight PCM voices and six FM channels.

• PC-98 Audio: emulates the audio of the NEC PC-9801-26 and PC-9801-86 sound cards.

• SegaCD Audio: emulates the audio of the Sega CD add-on for the Sega Genesis/32x.

To find out which emulation is compatible with the game you’re playing, have a look at the manual that comes with the game.

### 36.3 What is MIDI?

MIDI is a communications protocol for musical information; it can be likened to digital sheet music. By itself, MIDI is not sound. Hardware or software synthesizers create (synthesize) audio by interpreting the information given to them by the MIDI protocol.

While some older soundcards (and a few modern ones) have their own hardware-based synthesizers, this is relatively rare. Generally, soundcard drivers work with software synthesizers to interpret MIDI and output audio.

Some games only contain MIDI audio data. In the past this prevented audio for these games from working on platforms that did not support MIDI, or with soundcards that did not provide MIDI drivers. ScummVM can now convert MIDI data to sampled audio using MIDI device emulators.
36.3.1 What is General MIDI?

General MIDI is a MIDI standard which is implemented by a large number of devices. While using MIDI as its protocol, it also specifies an instrument map and some other information that devices must implement.

General MIDI device emulation (FluidSynth)

If the ScummVM you're using has libfluidsynth support it will be able to play MIDI music by using the FluidSynth emulator if set as the Preferred device or Music device, or if specified in the MIDI tab when Preferred device or Music device is set to <default> and ScummVM chooses General MIDI output automatically.

You will have to specify a SoundFont in the MIDI tab for ScummVM to use FluidSynth. MIDI is like digital sheet music; it needs a library of sound samples known as a SoundFont to draw from to synthesize music. See the ScummVM forum for an example of a great SoundFont.

The default output volume from FluidSynth can be fairly low, so ScummVM automatically sets the gain to get a stronger signal. Use the MIDI gain setting to further adjust this.

The processor requirements for FluidSynth are quite high; a fast CPU is recommended.

36.3.2 What is MT-32?

The MT-32 is a Roland sound module, although the term also commonly refers to a range of devices that are fully compatible with the MT-32. MT-32 devices also use MIDI as the communications protocol.

MT-32 device emulation

Some games which contain MIDI music data have tracks designed specifically for the Roland MT-32. ScummVM can emulate the MT-32 device, however you must provide the original MT-32 ROMs, taken from the MT-32 module, for the emulator to work. These files are:

- MT32_PCM.ROM - IC21 (512KB)
- MT32_CONTROL.ROM - IC26 (32KB) and IC27 (32KB)

Place these ROMs in the game directory, in your extrapath, or in the directory where your ScummVM executable resides. ScummVM also looks for CM32L_PCM.ROM and CM32L_CONTROL.ROM—the ROMs from the CM-32L device—and uses these instead of the MT32 ROMs if they are available.

Note: The MT-32 ROMs are copyrighted, and are not provided by ScummVM. These must be taken from your own MT-32 module.

ScummVM uses the MT-32 emulator if it is set as the Preferred device or Music device, or if it is specified in the MT-32 tab when Preferred device or Music device is set to <default> and ScummVM chooses MT-32 output automatically.
You don’t need to enable **True Roland MT-32** in the MT-32 tab, ScummVM does this automatically.

**Tip:** Some games work better with some MT-32 devices than others. As an example, Lure of the Temptress makes use of extra sound effects included with the CM-32L and won’t sound right with an MT-32. Likewise, The Colonel’s Bequest uses some bugs in the early MT-32 modules, which means that later devices will play incorrect sound effects!

This Wikipedia article provides a comprehensive list of MT-32 compatible games, including which games work best with which device.

The processor requirements for the MT-32 emulator are quite high; a fast CPU is strongly recommended.

### 36.3.3 Built-in MIDI support

All MIDI ports show up in the **Preferred device** or **Music device** dropdown selector. If you have selected a MIDI port, you need to specify what type of MIDI device this is with the options in the **MT-32** tab.

- Enable **True Roland MT-32** to tell ScummVM that the MIDI device is an MT-32 (or fully compatible) device.
- Enable **Roland GS device** to tell ScummVM to use an MT-32 soundtrack on a GS device. This is not supported by all games.
- If no options are selected, ScummVM treats the device on the port as a General MIDI device.

If you select an option that does not match the actual device, this might have unintended consequences. For example, if a game only has support for MT-32 and you have a General MIDI device selected as the **Preferred device** or **Music device**, ScummVM will convert the MT-32 MIDI data to GM-compatible MIDI data. While this might work fine for some games, it really depends on how the game has made use of the MT-32.

**macOS/Mac OS X**

Mac has a built-in MIDI synthesizer; Apple DLS software synthesizer. It uses the Mac’s built-in sounds (which are based on Roland GS).

The Apple Support page has further information about setting up MIDI devices on a Mac.
Windows

Windows has a generic built-in MIDI synthesizer—GS WaveTable Synth—also based on Roland’s GS sounds.

For an in-depth look at audio and MIDI device setup on a Windows computer, see this very helpful article.

Linux

MIDI device setup might vary depending on your Linux distro.

If you do not have a hardware MIDI device, there are two options: FluidSynth and TiMidity. FluidSynth is recommended as TiMidity might have some lag, depending on the system.

Here are a couple of helpful articles from the Ubuntu community documentation to get you started.

How to: Software Synthesizers
How to: Hardware synthesizer soundcard setup

36.4 What is AdLib?

AdLib devices do not use MIDI. They instead have a chip that produces sound through FM synthesis. While some games do store their audio data using a MIDI-derived format, this is converted by the game to work with the AdLib chip. ScummVM emulates a few different AdLib configurations, and selects the most appropriate for the game:

- The original AdLib and SoundBlaster card had one OPL2 chip.
- The SoundBlaster Pro 1 had two OPL2 chips
- The SoundBlaster Pro 2 and 16 had an OPL3 chip.

The AdLib emulator setting offers MAME, DOSBox and Nuked emulation, with MAME being the least accurate and using the least CPU power, and Nuked being the most accurate and also using the most CPU power - DOSBox is somewhere in between.

There is also the option to select the OPL2LPT and OPL3LPT devices, which are external hardware devices with a real OPL chip, connected through the parallel port of a computer.

AdLib does not require a SoundFont or ROMs, so for many games it might be the easiest to configure. However, if an MT-32 or GS emulator or device is available, ScummVM will prioritize this over AdLib.
36.4.1 Mixed AdLib/MIDI mode

Some games contain sound effects that are exclusive to the AdLib soundtrack, or the AdLib soundtrack might provide better sound effects. For these games, you can combine MIDI music with AdLib sound effects by using the *mixed AdLib/MIDI mode*.

**Note:** Mixed AdLib/MIDI mode is not supported by all games.

36.5 Digital Sound effects

Some games have both sampled and synthesized sound effects. ScummVM will usually use the sampled sound effects, even if you select Adlib, MT-32 or GM as your audio device. Some games allow you to choose between sampled and synthesized sound effects by using the **Prefer digital sound effects** option in the Engine tab.

36.6 Sample output rate

The output sample rate tells ScummVM how many sound samples to play per channel per second. Most of the sounds were originally sampled at either 22050Hz or 11025Hz, so using a higher sample rate in these cases will not improve the quality of the audio.

For games that use CD audio, the sounds were probably sampled at 44100Hz, so that is a better sample rate to choose for these games.

ScummVM generates the samples when using AdLib, FM-Towns, PC Speaker or IBM PCjr emulated sound. 22050Hz will usually be fine for these options, although for Beneath a Steel Sky 44100Hz is recommended.

ScummVM has to resample all sounds to the selected output frequency. It is recommended to choose an output frequency that is a multiple of the original frequency. Choosing an in-between number might not be supported by your sound card.

36.7 Audio buffer size

There is no option to control audio buffer size through the GUI, but the default value can be overridden in the configuration file with the `audio_buffer_size` configuration keyword. The default value is calculated based on output sampling frequency to keep audio latency below 45ms.

Appropriate values are normally between 512 and 8192, but the value must be one of: 256, 512, 1024, 2048, 4096, 8192, 16384, or 32768.

Smaller values yield faster response time, but can lead to stuttering if your CPU isn’t able to catch up with audio sampling when using the sound emulators. Large buffer sizes might lead to minor audio delays (high latency).
Chapter 37

Understanding the graphics settings

This guide expands on the information contained on the graphics settings page.

37.1 How do the graphics settings work together?

The graphics mode, aspect ratio, and stretch mode settings work together to change the resolution and display of each game. The first setting applied to the image is the graphics mode, then the aspect ratio correction, and then the stretch mode setting. The only exception to this is OpenGL mode, which applies all settings in one pass to arrive at a final image.

Render modes are only applicable to some older games that were designed to be played on multiple systems, and lets us choose which system's graphics to replicate.

37.2 Graphics modes

The original game graphics are upscaled using different graphical filters, which are specialized algorithms used to ensure that low resolution pixel-art still looks good when it is displayed at a higher resolution.

If the game originally ran at a resolution of 320x200—which is typical for most SCUMM games—then using a graphics mode with a scale factor of 2x yields 640x400 graphics. A 3x scale factor yields 960x600.

There is always a speed penalty when using any form of filtering.
37.2.1 A comparison of graphics modes

Fig. 1: **Normal1x**: No filtering, no scaling (original resolution). Fastest.

Fig. 2: **Normal2x**: No filtering, scales the image by a factor of 2. Default for non 640x480 games.

**Note**: Not all platforms support all the graphics modes.

To switch between graphics modes, press Ctrl + Alt and 1 to 8.
Fig. 3: **Normal3x**: No filtering, scales the image by a factor of 3.
Fig. 4: **Normal4x**: No filtering, scales the image by a factor of 4.
Fig. 5: **HQ2x**: Uses lookup tables to create anti-aliased output. Very nice high quality filter, but slow.

### 37.2.2 OpenGL mode

OpenGL graphics mode works a little differently to the other graphics modes. Instead of applying the aspect ratio and stretch mode settings one after the other (and after the graphics mode scaling has been applied), it does all the scaling and stretching in one step, going directly from the original game resolution to the final display resolution. OpenGL mode uses hardware rendering, instead of software rendering.

Output is controlled by your window size (or screen resolution if in full screen) and the stretch mode selected, as well as the **Filter graphics** option.

### 37.3 Aspect ratio correction

Older games were designed to be run at 320x200 pixels, but on systems where each pixel was rectangular instead of square. This means that on modern systems these games look wider and flatter than they are supposed to. Aspect ratio correction duplicates lines of pixels to correct this.

For a game with an original resolution of 320x200, aspect ratio correction results in a resolution of 320x240.

To toggle aspect ratio on and off, press **Ctrl+Alt+a**.
Fig. 6: **HQ3x**: Uses lookup tables to create anti-aliased output. Very nice high quality filter, but slow.
Fig. 7: **Edge2x**: Uses edge-directed interpolation. Sharp, clean, anti-aliased image with very few artifacts.

### 37.4 Stretch modes

There are five stretch modes:

- **Center**: centers the image in the window.
- **Pixel-perfect scaling**: scales the image to the highest multiple of the game resolution that fits the window, or that fits the screen if in fullscreen mode. Any empty space is filled with black bars.
  - For example, a game with an original resolution of 320x200 with aspect ratio correction applied (320x240) and a 3x graphics mode, will be stretched to a multiple of 900x720 pixels: 1800x1440, 2700x2160 and so on.
- **Fit to window**: fits the image to the window, but maintains the aspect ratio and does not stretch it to fill the window.
- **Stretch**: stretches the image to fill the window.
- **Fit to window (4:3)**: fits the image to the window, at a forced 4:3 aspect ratio.

To switch between stretch modes, press Ctrl+Alt+s.
Fig. 8: **Edge3x**: Uses edge-directed interpolation. Sharp, clean, anti-aliased image with very few artifacts.
37.5 Render mode

For most games this setting will have no effect. For some of the older games that could be played on different systems and graphics cards, this control lets you decide which system you want ScummVM to reproduce.

Below are some of the common render modes, to illustrate how the render mode setting works.

37.6 Filter graphics

When enabled, ScummVM uses bilinear interpolation instead of nearest neighbor for the aspect ratio and stretch mode. It does not affect the graphics mode scaling unless OpenGL is selected, in which case it determines how the OpenGL scaling is done.

Nearest neighbor is a simple way to scale an image; each pixel becomes multiple pixels of the same color. While this preserves the sharper details in a pixel art image, it also creates “jagged” edges as the image is scaled up. Bilinear interpolation finds the average color between pixel color values and fills in missing pixel, which results in a “smoothed” image.

To toggle between bilinear interpolation and nearest neighbor, press Ctrl+Alt+f.
Fig. 10: **AdvMAME3x**: Expands each pixel into 4 new pixels based on the surrounding pixels. Doesn’t rely on blurring like 2xSAI, fast.
Fig. 11: AdvMAME3x: Expands each pixel into 4 new pixels based on the surrounding pixels. Doesn’t rely on blurring like 2xSAI, fast.
Fig. 12: **SaI2x**: Uses bilinear filtering to interpolate pixels.

Fig. 13: **SuperSaI2x**: An enhanced version of the SaI2x filter.
Fig. 14: **SuperEagle2x**: A variation of the SAI2x filter. Less blurry than SAI2x, but slower.

Fig. 15: **PM2x**: Analyzes the eight neighboring pixels to create smoother diagonal lines and rounded edges.
Fig. 16: **DotMatrix2x**: Dot matrix effect.

Fig. 17: **TV2x**: Interlace filter. Introduces scan lines to emulate a TV.
37.7 3D Graphics settings

37.7.1 Vsync

V-sync, or vertical sync, synchronizes the frame rate of the game with the monitor’s refresh rate, or the video capture refresh rate. This helps to prevent screen “tearing”, where the screen displays parts of multiple frames at once, which looks like a horizontal line where the image appears to split.

This setting is enabled by default.

37.7.2 Renderers

There are three options for rendering 3D games: OpenGL, OpenGL with shaders, or software.

- OpenGL uses the graphics card (GPU) to render the game.
- OpenGL with shaders also uses the GPU, but also uses shaders, if available, to render the game. Shaders are small programs running on the GPU which transform certain graphics inputs to outputs. They control things such as how the pixels are drawn on the 3D shapes.
- The software option uses the computer’s CPU, instead of a graphics card, to render the game.

Not all render options are available for all games. If in doubt, leave the setting at <default>.
Fig. 19: Aspect ratio correction applied. The moon is actually round, as it should be!
Fig. 20: Maniac Mansion with <default> render mode

Fig. 21: Maniac Mansion with Hercules Green render mode
Fig. 22: Maniac Mansion with Hercules Amber render mode

Fig. 23: Maniac Mansion with CGA (4 color) render mode
Fig. 24: Maniac Mansion with EGA (16 color) render mode

Fig. 25: Maniac Mansion with Amiga (32 color) render mode

37.7. 3D Graphics settings
37.7.3 Anti-aliasing

Without anti-aliasing, the computer takes the color it finds at the center of the pixel, and applies that color to the entire pixel. This results in jagged, pixelated lines at the edges of objects. Anti-aliasing, in a nutshell, is how we get nice, smooth lines on a 3D game.

Historically, anti-aliasing was done using a method called Supersampling. With this method, each frame is rendered behind-the-scenes to a higher resolution, and then downscaled to produce a much smoother, better looking image. Unfortunately, this method is very GPU-intensive, and too slow.

Multisampling Anti-Aliasing, or MSAA for short, was developed as a much faster alternative; the computer renders as much of the image as possible without anti-aliasing, and then only applies anti-aliasing to the edges. It samples each pixel to find out where the edge is, and how to blend the colors to create a smooth edge. The numbered options in the ScummVM Graphics tab (2x, 4x and 8x), refer to how many samples are taken. 8x MSAA produces a better image than 2x MSAA, but is also more GPU-intensive.
Chapter 38

Report a bug

To report a bug, go to the ScummVM Issue Tracker and log in with your GitHub account.

Please make sure the bug is reproducible, and still occurs in the latest git/Daily build version. Also check the compatibility list for that game, to ensure the issue is not already known. Please do not report bugs for games that are not listed as completeable on the Supported Games wiki page, or on the compatibility list. We already know those games have bugs!

Please include the following information in the bug report:

• ScummVM version (test the latest git/Daily build)

• Bug details, including instructions for how to reproduce the bug. If possible, include log files, screenshots, and any other relevant information.

• Game language

• Game version (for example, talkie or floppy)

• Platform and Compiler (for example, Win32, Linux or FreeBSD)

• An attached saved game, if possible.

• If this bug only occurred recently, include the last version without the bug, and the first version with the bug. That way we can fix it quicker by looking at the changes made.

Finally, please report each issue separately; do not file multiple issues on the same ticket. It is difficult to track the status of each individual bug when they aren’t on their own tickets.

38.1 The ScummVM log file

To help you report a bug, you can find error messages in the ScummVM log file. The location of this file varies depending on your operating system.
macOS

~/Library/Logs/scummvm.log

Linux

We use the XDG Base Directory Specification, so by default the file will be ~/.cache/scummvm/logs/scummvm.log but its location might vary depending on the value of the XDG_CACHE_HOME environment variable.

Windows

Window Vista/7/8/10

%APPDATA%\ScummVM\scummvm.log
Chapter 39

Contact us

There are a few ways to become a part of the ScummVM community:

• Chat with us on Discord or the IRC Channel. It’s a great place to hang out with developers and other ScummVM users.

• Post on the ScummVM Forum. We have several forums; the Help and Support forum if you need help while using ScummVM, the General discussion forum for all general questions, and The Junkyard for almost everything else! We also have some platform-specific forums, in case you have a specific question. Make sure to read the Forum Rules before posting.

• There are three ScummVM mailing lists, which you can join here.

• If you find a bug, Report a bug.

• Feature requests can be made to our Feature request tracker.

• If you have made modifications to the ScummVM source code and would like to see them merged into the main code, open a Pull Request on our GitHub page.

We look forward to meeting you!
Chapter 40

Frequently Asked Questions

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· Why are the subtitles in my non-English game messed up?

* Audio
· Help! There’s no sound!
· Help! There’s no sound on my iPhone/iPad!
· I have a “talkie” version of a LucasArts game but I can’t hear the voices. What’s the problem?
· The audio is really glitchy. What can I do?
· I have a CD version of a game, how do I get the sound to work without running the game from the CD?

* Graphics
· There are so many options… How do I know what to pick?
· Can I just make the image larger (for example, 1 pixel becomes 4 pixels) without any smoothing or antialiasing?
· The game colors are messed up, how do I fix them?

40.1 General

40.1.1 About

Is ScummVM an emulator?

No! ScummVM actually replaces the original executable file that shipped with the game. This means that your games can run on platforms they were never designed for! For an in-depth look at how ScummVM works, see the About ScummVM wiki page.
Is ScummVM free?

ScummVM is released under the GPL (General Public License), so it’s more than just free. ScummVM source code is available for you to do whatever you want with it, but if you make modifications and redistribute your work, you must make your source code available.

The ScummVM team would be delighted if you send them your modifications, so that the changes you’ve made can be merged into the main source code. See the Developer Central wiki page for contributing guidelines.

How do I install ScummVM onto my device?

See Start here!.

How do I get game files onto my device?

For general guidance, see the Handling game files page. For platform-specific information, see the relevant page in the OTHER PLATFORMS section of the sidebar.

ScummVM has cloud and LAN functionality to simplify the file transfer process. For more information, see Connecting a cloud service and Using the local web server.

On what platform(s) will ScummVM run?

See our Platforms wiki page for a full list. We have guides available for many of the supported platforms, see the relevant page in the OTHER PLATFORMS section of the sidebar.

40.1.2 Games

Can I only play LucasArts SCUMM games?

Although the ScummVM project started by reverse-engineering just the LucasArts SCUMM games, the project now supports hundreds of games from many different game developers. See the full list of supported games here. There is a caveat; not all supported games are playable on all platforms. Often this is because the game is simply too CPU intensive for the device, or because of some other hardware or software limitation. If a game is not available on a platform, you will not be able to add it to ScummVM.
Where do I get the games?

See the ScummVM [Where to get the games](https://wiki.scummvm.org/wiki/Where_to_get_the_games) wiki page.

How do I install games from my floppy discs/CDs?

Generally speaking, you do not need to install the games. You only need to point ScummVM to the game files contained on these discs. For a complete guide, see [Handling game files](https://wiki.scummvm.org/wiki/Handling_game_files).

Do I need the original game discs?

Ideally yes, however we know that a lot of people don’t! If you do not have any hard copy games, there are some digital options available, including some games that have been released as freeware. See the ScummVM [Where to get the games](https://wiki.scummvm.org/wiki/Where_to_get_the_games) wiki page.

How do I know if I can play my game using ScummVM?

The best place to check is the Compatibility page on the ScummVM website. You can also have a look at the full list of supported games [here](https://wiki.scummvm.org/wiki/Supported_games).

I have saved games from when I played the original game - can I use these with ScummVM?

This is only supported for a select number of games. See the [wiki](https://wiki.scummvm.org/wiki) page for the game you are playing.

How do I launch a game straight from the game folder?

Games must be added to and started from the [ScummVM Launcher](https://wiki.scummvm.org/wiki/ScummVM_Launcher); they cannot be started directly from the game files. See Adding and playing a game.

What are the in-game keyboard shortcuts?

A list of default shortcuts can be found on the [Keyboard shortcuts](https://wiki.scummvm.org/wiki/Keyboard_shortcuts) page. Since version 2.2.0 you can also create custom shortcuts on the Keymaps tab.
40.2 Troubleshooting

40.2.1 ScummVM

ScummVM crashes, but the console window disappears too quickly to see the error message.

If you are using a computer, you can run ScummVM from the command line. By doing this, error messages remain visible even after ScummVM exits.

You can also find error messages in the ScummVM log file. See The ScummVM log file.

I think I found a bug. What do I do?

See Report a bug.

40.2.2 Games

Help! My game won't run!

1. Make sure your game is supported. Check the Compatibility page on the ScummVM website, and the Platform Overview page on the wiki.
2. Check that you have all the required datafiles. See the Handling game files page.
3. Ask for advice on the ScummVM forums or on Discord. See the Contact us page.
4. If you think the game should run, and it doesn’t, report it as a bug. See Report a bug.

I installed my game but ScummVM can't find it... What do I do?

Installing the game does not necessarily provide ScummVM with the files it needs. In most cases you will need to copy the files from the disc into a folder ScummVM can access. See Handling game files.

Why are the subtitles in my non-English game messed up?

You need to specify the correct language in the game-specific settings.
40.2.3 Audio

Help! There's no sound!

Sometimes it’s worth checking the obvious.

1. Are your speakers on? Are your headphones properly connected?

2. Try playing an audio clip from another source to see if you have sound in general.

3. If you narrow it down to an issue with ScummVM, check the audio settings. ScummVM falls back on an audio setting that works, but if for some reason it doesn’t, you might need to change the settings yourself. A safe bet is usually to set the Preferred device to <default> and allow ScummVM to choose for you.

Help! There's no sound on my iPhone/iPad!

ScummVM will not play any sound if your device is in Silent Mode. If this is not the problem, see Help! There's no sound!.

I have a “talkie” version of a LucasArts game but I can't hear the voices. What's the problem?

The original games shipped with an uncompressed voice file (MONSTER.SOU). If you have compressed this file to an mp3 file (MONSTER.S03), an Ogg Vorbis file (MONSTER.SOG), or a FLAC file (MONSTER.SOF), make sure that the ScummVM you’re using has support for those formats.

The audio is really glitchy. What can I do?

There are a few things you can try:

• Try to increase the audio buffer size in the configuration file.

• If you are using the MT-32 emulator, your CPU might not have the processing power to keep up. In this case, you might have some success with running an external MT-32 emulator (Munt), as described in this forum post, provided your platform supports it.

• If you are using FluidSynth, in particular with a large Soundfont, your CPU might not have the processing power to keep up. Try selecting a different Preferred device.

• If you are using the AdLib emulator, try selecting the least CPU-intensive option; MAME.
I have a CD version of a game, how do I get the sound to work without running the game from the CD?

See CD audio.

40.2.4 Graphics

There are so many options… How do I know what to pick?

Start by checking out our Understanding the graphics settings page. It has comprehensive information on how all this stuff works.

Can I just make the image larger (for example, 1 pixel becomes 4 pixels) without any smoothing or antialiasing?

Yes. Using the Normal (no scaling) graphics mode in conjunction with pixel-perfect scaling will result in a larger image without any smoothing. The 2x and 3x graphics modes also do not involve any filtering. Also check that Filter graphics is not enabled.

The game colors are messed up, how do I fix them?

Ensure the correct game platform has been detected. For example, with Amiga game files, check that the platform is set to Amiga.
Chapter 41

Credits

41.1 ScummVM Team

41.1.1 Project Leaders

<table>
<thead>
<tr>
<th>Paweł Kołodziejski</th>
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<tbody>
<tr>
<td>Eugene Sandulenko</td>
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41.1.2 PR Office

<table>
<thead>
<tr>
<th>Arnaud Boutonné</th>
<th>Public Relations Officer, Project Administrator</th>
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<tbody>
<tr>
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41.1.4 Engine Teams

SCUMM

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<tr>
<td>Torbjörn Andersson</td>
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<tr>
<td>James Brown</td>
<td>(retired)</td>
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<tr>
<td>Jonathan Gray</td>
<td>(retired)</td>
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<tr>
<td>Vincent Hamm</td>
<td>(retired)</td>
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<tr>
<td>Max Horn</td>
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<tr>
<td>Travis Howell</td>
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<tr>
<td>Paweł Kołodziejski</td>
<td>Codecs, iMUSE, Smush, etc.</td>
</tr>
<tr>
<td>Gregory Montoir</td>
<td>(retired)</td>
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<tr>
<td>Eugene Sandulenko</td>
<td>FT INSANE, MM NES, MM C64, game detection, Herc/CGA</td>
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<tr>
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HE

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Access

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ADL

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### AGI

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### AGOS

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### AGS

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<td>Bernhard Rosenkraenzer</td>
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<td>Shane Stevens</td>
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<td>Shawn R. Walker</td>
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### Asylum

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<td>Alex Fontoura</td>
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<td>Julien Templier</td>
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</table>
### Avalanche

| Peter Bozsó | Arnaud Boutonné |

### BBVS

| Benjamin Haisch |

### Blade Runner

| Thanasis Antoniou |
| Thomas Fach-Pedersen |
| Peter Kohaut |
| Eugene Sandulenko |

### Buried

| Matthew Hoops |

### CGE

| Arnaud Boutonné |
| Paul Gilbert |

### CGE2

| Peter Bozsó |
| Arnaud Boutonné |
| Paul Gilbert |
### Chewy

<table>
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### Cine

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### Composer

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<tr>
<td>Alyssa Milburn</td>
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### CruisE

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### Cryomni3D

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<tr>
<td>Philippe Valembois</td>
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### Director

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<tr>
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### DM

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### Draci

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### Dragons

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<th>Eric Fry</th>
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<tr>
<td>Ángel Eduardo García Hernández</td>
<td>Help with reverse engineering</td>
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### Drascula

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### DreamWeb

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Fullpipe

Eugene Sandulenko

ScummGlk

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<td>Paul Gilbert</td>
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<tr>
<td>Tor Andersson</td>
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Gnap

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Gob

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Griffon

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## Grim

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<td>Dries Harnie</td>
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<td>Christian Krause</td>
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## Groovie

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## Hades' Challenge

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## Hopkins

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### Hugo

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### ICB

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<td>Joost Peters</td>
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### Illusions

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<td>Eric Fry</td>
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### Kingdom

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Arnaud Boutonné</td>
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<tr>
<td>Thomas Fach-Pedersen</td>
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### Kyra

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<tr>
<td>Torbjörn Andersson</td>
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<tr>
<td>Florian Kagerer</td>
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<tr>
<td>Gregory Montoir</td>
<td>(retired)</td>
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<tr>
<td>Johannes Schickel</td>
<td>(retired)</td>
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### Lab

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<td>Arnaud Boutonné</td>
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<tr>
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<tr>
<td>Willem Jan Palenstijn</td>
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<td>Eugene Sandulenko</td>
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### Lastexpress

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<td>Julien Templier</td>
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### Lilliput

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### Lure

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### MacVenture

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<tr>
<td>Borja Lorente</td>
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### MADE

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<tr>
<td>Benjamin Haisch</td>
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<td>Filippos Karapetis</td>
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### MADS

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### Mohawk

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<tr>
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<tr>
<td>Alyssa Milburn</td>
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<td>Eugene Sandulenko</td>
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<tr>
<td>David Turner</td>
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<td>David Fioramonti</td>
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### Mortevelle

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<td>Paul Gilbert</td>
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### MutationOfJB

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<tbody>
<tr>
<td>Lubomír Remák</td>
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<tr>
<td>Miroslav Remák</td>
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### Myst 3

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### Neverhood

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<tr>
<td>Filippos Karapetis</td>
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Parallaction

peres

Pegasus

Matthew Hoops (retired)

Petka

Andrei Prykhodko
Eugene Sandulenko

Pink

Andrei Prykhodko
Eugene Sandulencko

Plumbers

Retro-Junk

Prince

Eugene Sandulenko
Łukasz Wątka
Kamil Zbróg

Private

Gustavo Grieco
**Queen**

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**SAGA**

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**SCI**

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<tr>
<td>Max Horn</td>
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<td>Walter van Niftrik</td>
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**Sherlock**

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### Sky

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<tr>
<td>Oliver Kiehl</td>
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<td>Joost Peters</td>
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### Stark

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<td>Liu Zhaosong</td>
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### Supernova

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<tr>
<td>Joseph-Eugene Winzer</td>
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<tr>
<td>Jaromír Wysoglad</td>
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### Sword1

<table>
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<tr>
<td>Fabio Battaglia</td>
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<tr>
<td>Thierry Crozat</td>
<td>Mac version support</td>
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<tr>
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### Sword2

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<tr>
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<tr>
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### Sword2.5

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<tr>
<td>Max Horn</td>
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<tr>
<td>Filippos Karapetis</td>
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<tr>
<td>Eugene Sandulenko</td>
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### TeenAgent

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Robert Megone</td>
<td>Help with callback rewriting</td>
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<tr>
<td>Vladimir Menshakov</td>
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### Tinsel

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<tr>
<td>Fabio Battaglia</td>
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<tr>
<td>Paul Gilbert</td>
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<tr>
<td>Sven Hesse</td>
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<tr>
<td>Max Horn</td>
<td>(retired)</td>
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<td>Filippos Karapetis</td>
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<td>Joost Peters</td>
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### Titanic

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<tr>
<th>Name</th>
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<tr>
<td>David Fioramonti</td>
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<td>Paul Gilbert</td>
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<td>Colin Snover</td>
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### Toltecs

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### Tony

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<tbody>
<tr>
<td>Arnaud Boutonné</td>
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<td>Paul Gilbert</td>
<td></td>
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<tr>
<td>Alyssa Milburn</td>
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</table>
## ScummVM Team

### Toon

<table>
<thead>
<tr>
<th>Sylvain Dupont</th>
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### Touché

<table>
<thead>
<tr>
<th>Gregory Montoir</th>
<th>(retired)</th>
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### TsAGE

<table>
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<td>Paul Gilbert</td>
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### Tucker

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<th>Gregory Montoir</th>
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### TwinE

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<tr>
<th>Alexandre Fontoura</th>
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<tbody>
<tr>
<td>Vincent Hamm</td>
<td>(retired)</td>
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<tr>
<td>Felipe Sanches</td>
<td>(retired)</td>
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<tr>
<td>Nikita Tereshin</td>
<td>(retired)</td>
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<tr>
<td>Patrik Dahlström</td>
<td>(retired)</td>
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<tr>
<td>Arthur Blot</td>
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<tr>
<td>Kyuubu</td>
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<tr>
<td>Toël Hartmann</td>
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<tr>
<td>Sébastien Viannay</td>
<td>(retired)</td>
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<tr>
<td>Martin Gerhardy</td>
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### Ultima

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<tbody>
<tr>
<td>Paul Gilbert</td>
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<tr>
<td>Matthew Duggan</td>
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<td>Matthew Jimenez</td>
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<td>Jonathan E. Wright</td>
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<td>Joseph Applegate</td>
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<td>Malignant Manor</td>
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<td>Michael Fink</td>
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<td>Sam Matthews</td>
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<td>Travis Howell</td>
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<td>Willem Jan Palenstijn</td>
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<tr>
<td>Brian Tietz</td>
<td>(Pentagram)</td>
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<td>Dominik Reichardt</td>
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<td>Max Horn</td>
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<td>Patrick Burke</td>
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<td>Ryan Nunn</td>
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### Voyeur

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<tr>
<td>Paul Gilbert</td>
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### WAGE

<table>
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### Wintermute

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<tbody>
<tr>
<td>Gunnar Birke</td>
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Xeen

<table>
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<tr>
<td>Paul Gilbert</td>
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<tr>
<td>David Goldsmith</td>
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<tr>
<td>Matt Taylor</td>
<td>(analysis)</td>
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Z-Vision

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<tbody>
<tr>
<td>Adrian Astley</td>
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<tr>
<td>Filippos Karapetis</td>
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<tr>
<td>Anton Yarcev</td>
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41.1.5 Backend Teams

Android

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Andre Heider</td>
</tr>
<tr>
<td>Angus Lees</td>
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<tr>
<td>Lubomyr Lisen</td>
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Dreamcast

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Marcus Comstedt</td>
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GCW0

<table>
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<tr>
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GPH Devices (GP2X, GP2XWiz & Caanoo)

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>John Willis</td>
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### iPhone / iPad

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<tr>
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<tbody>
<tr>
<td>Oystein Eftevaag</td>
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<tr>
<td>Vincent Bénony</td>
</tr>
<tr>
<td>Thierry Crozat</td>
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### LinuxMoto

<table>
<thead>
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<tbody>
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### Maemo

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<tr>
<td>Frantisek Dufka</td>
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### Nintendo 3DS

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<th>Name</th>
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<td>Thomas Edvalson</td>
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### Nintendo 64

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<tr>
<th>Name</th>
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<tr>
<td>Fabio Battaglia</td>
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### Nintendo DS

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<tr>
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<tbody>
<tr>
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<tr>
<td>Neil Millstone</td>
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### Nintendo Switch

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<tbody>
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<td>rsn8887</td>
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## OpenPandora

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## PocketPC / WinCE

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<tbody>
<tr>
<td>Nicolas Bacca</td>
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<td>Ismail Khatib</td>
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<td>Kostas Nakos</td>
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## PlayStation 2

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## PSP (PlayStation Portable)

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<td>Yotam Barnoy</td>
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<td>Joost Peters</td>
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## PlayStation Vita

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## SDL (Win/Linux/OS X/etc.)

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<tr>
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<td>Asm routines, GFX layers</td>
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### SymbianOS

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<thead>
<tr>
<th>Jurgen Braam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lars Persson</td>
</tr>
<tr>
<td>Fedor Strizhniou</td>
</tr>
</tbody>
</table>

### Tizen / BADA

| Chris Warren-Smith |

### WebOS

| Klaus Reimer |

### Wii

<table>
<thead>
<tr>
<th>Andre Heider</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexander Reim</td>
</tr>
</tbody>
</table>

### Raspberry Pi

| Manuel Alfayate |

### 41.1.6 Other subsystems

#### Infrastructure

<table>
<thead>
<tr>
<th>Max Horn</th>
<th>Backend &amp; Engine APIs, file API, sound mixer, audiostreams, data structures, etc. (retired)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eugene Sandulenko</td>
<td></td>
</tr>
<tr>
<td>Johannes Schickel</td>
<td>(retired)</td>
</tr>
</tbody>
</table>

41.1. ScummVM Team
## GUI

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Horn</td>
<td>(retired)</td>
</tr>
<tr>
<td>Vicent Marti</td>
<td></td>
</tr>
<tr>
<td>Eugene Sandulenko</td>
<td></td>
</tr>
<tr>
<td>Johannes Schickel</td>
<td>(retired)</td>
</tr>
</tbody>
</table>

## Miscellaneous

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Corrales-Lopez</td>
<td>Filesystem access improvements (GSoC 2007 task) (retired)</td>
</tr>
<tr>
<td>Jerome Fisher</td>
<td>MT-32 emulator</td>
</tr>
<tr>
<td>Benjamin Haisch</td>
<td>Heavily improved de-/encoder for DXA videos</td>
</tr>
<tr>
<td>Jochen Hoenicke</td>
<td>Speaker &amp; PCjr sound support, AdLib work (retired)</td>
</tr>
<tr>
<td>Daniël ter Laan</td>
<td>Restoring original Drascula tracks, and writing convert_dxa.bat</td>
</tr>
<tr>
<td>Chris Page</td>
<td>Return to launcher, savestate improvements, leak fixes, … (GSoC 2008 task) (retired)</td>
</tr>
<tr>
<td>Robin Watts</td>
<td>ARM assembly routines for nice speedups on several ports; improvements to the sound mixer</td>
</tr>
</tbody>
</table>

### 41.1.7 Website (code)

<table>
<thead>
<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fredrik Wendel</td>
<td>(retired)</td>
</tr>
</tbody>
</table>

### 41.1.8 Website (maintenance)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Brown</td>
<td>IRC Logs maintainer</td>
</tr>
<tr>
<td>Thierry Crozat</td>
<td>Wiki maintainer</td>
</tr>
<tr>
<td>Andre Heider</td>
<td>Buildbot maintainer</td>
</tr>
<tr>
<td>Joost Peters</td>
<td>Doxygen Project Documentation maintainer</td>
</tr>
<tr>
<td>Jordi Vilalta Prat</td>
<td>Wiki maintainer</td>
</tr>
<tr>
<td>Eugene Sandulenko</td>
<td>Forum, IRC channel, Screen Shots and Mailing list maintainer</td>
</tr>
<tr>
<td>John Willis</td>
<td></td>
</tr>
<tr>
<td>Matan Bareket</td>
<td>Site maintainer</td>
</tr>
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</table>
41.1.9 Website (content)

All active team members

41.1.10 Documentation

<table>
<thead>
<tr>
<th>Name</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thierry Crozat</td>
<td>Numerous contributions to documentation</td>
</tr>
<tr>
<td>Joachim Eberhard</td>
<td>Numerous contributions to documentation (retired)</td>
</tr>
<tr>
<td>Matthew Hoops</td>
<td>Numerous contributions to documentation (retired)</td>
</tr>
<tr>
<td>Cadi Howley</td>
<td>User documentation (GSOD 2020)</td>
</tr>
</tbody>
</table>

41.1.11 Retired Team Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chris Apers</td>
<td>Former PalmOS porter</td>
</tr>
<tr>
<td>Ralph Brorsen</td>
<td>Help with GUI implementation</td>
</tr>
<tr>
<td>Jamieson Christian</td>
<td>iMUSE, MIDI, all things musical</td>
</tr>
<tr>
<td>Felix Jakschitsch</td>
<td>Zak256 reverse engineering</td>
</tr>
<tr>
<td>Mutwin Kraus</td>
<td>Original MacOS porter</td>
</tr>
<tr>
<td>Peter Moraliyski</td>
<td>Port: GP32</td>
</tr>
<tr>
<td>Jeremy Newman</td>
<td>Former webmaster</td>
</tr>
<tr>
<td>Lionel Ulmer</td>
<td>Port: X11</td>
</tr>
<tr>
<td>Won Star</td>
<td>Former GP32 porter</td>
</tr>
</tbody>
</table>

41.2 Other contributions

41.2.1 Packages

**AmigaOS 4**

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hans-Jörg Frieden</td>
<td>(retired)</td>
</tr>
<tr>
<td>Hubert Maier</td>
<td></td>
</tr>
<tr>
<td>Juha Niemimäki</td>
<td>(retired)</td>
</tr>
</tbody>
</table>
### Atari/FreeMiNT

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keith Scroggins</td>
</tr>
</tbody>
</table>

### BeOS

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
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<tbody>
<tr>
<td>Stefan Parviainen</td>
<td>(retired)</td>
</tr>
<tr>
<td>Luc Schrijvers</td>
<td></td>
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### Debian GNU/Linux

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
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<tbody>
<tr>
<td>Tore Anderson</td>
<td>(retired)</td>
</tr>
<tr>
<td>David Weinehall</td>
<td></td>
</tr>
</tbody>
</table>

### Fedora / RedHat

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Willem Jan Palenstijn</td>
</tr>
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</table>

### Haiku

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luc Schrijvers</td>
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### macOS

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<th>Status</th>
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<tbody>
<tr>
<td>Max Horn</td>
<td>(retired)</td>
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<tr>
<td>Oystein Eftevaag</td>
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<tr>
<td>Thierry Crozat</td>
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### Mandriva

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<tr>
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<tbody>
<tr>
<td>Dominik Scherer</td>
<td>(retired)</td>
</tr>
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### MorphOS

<table>
<thead>
<tr>
<th>BeWorld</th>
<th>Fabien Coeurjoly</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Rüdiger Hanke</td>
<td>(retired)</td>
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### OS/2

<table>
<thead>
<tr>
<th>Paul Smedley</th>
<th></th>
</tr>
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### RISC OS

<table>
<thead>
<tr>
<th>Cameron Cawley</th>
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### SlackWare

<table>
<thead>
<tr>
<th>Robert Kelsen</th>
<th></th>
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</table>

### Solaris x86

<table>
<thead>
<tr>
<th>Laurent Blume</th>
<th></th>
</tr>
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</table>

### Solaris SPARC

<table>
<thead>
<tr>
<th>Markus Strangl</th>
<th></th>
</tr>
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</table>

### Win32

<table>
<thead>
<tr>
<th>Travis Howell</th>
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Win64

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Chris Gray</td>
<td>(retired)</td>
</tr>
<tr>
<td>Johannes Schickel</td>
<td>(retired)</td>
</tr>
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</table>

41.2.2 GUI Translations

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
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<tbody>
<tr>
<td>Thierry Crozat</td>
<td>Translation Lead</td>
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Basque

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Mikel Iturbe Urretxa</td>
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Belarusian

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ivan Lukyanov</td>
</tr>
</tbody>
</table>

Catalan

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Jordi Vilalta Prat</td>
</tr>
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</table>

Czech

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zbyník Schwarz</td>
</tr>
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</table>

Danish

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steffen Nyeland</td>
</tr>
<tr>
<td>scootergrisen</td>
</tr>
</tbody>
</table>
### Other contributions

<table>
<thead>
<tr>
<th>Language</th>
<th>Contributors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dutch</td>
<td>Ben Castricum</td>
</tr>
<tr>
<td>Finnish</td>
<td>Toni Saarela</td>
</tr>
<tr>
<td></td>
<td>Timo Mikkolainen</td>
</tr>
<tr>
<td>French</td>
<td>Thierry Crozat</td>
</tr>
<tr>
<td></td>
<td>Purple T</td>
</tr>
<tr>
<td>Galician</td>
<td>Santiago G. Sanz</td>
</tr>
<tr>
<td>German</td>
<td>Simon Sawatzki</td>
</tr>
<tr>
<td></td>
<td>Lothar Serra Mari</td>
</tr>
<tr>
<td>Greek</td>
<td>Thanasis Antoniou</td>
</tr>
<tr>
<td></td>
<td>Filippos Karapetis</td>
</tr>
<tr>
<td>Hungarian</td>
<td>Alex Bevilacqua</td>
</tr>
<tr>
<td></td>
<td>George Kormendi</td>
</tr>
</tbody>
</table>
Italian

Matteo Angelino
Paolo Bossi
Walter Agazzi

Norwegian (Bokmål)

Einar Johan Sømåen

Norwegian (Nynorsk)

Einar Johan Sømåen

Polish

GrajPoPolsku.pl Team

Brazilian Portuguese

ScummBR Team
Marcel Souza Lemes

Portuguese

Daniel

Russian

Eugene Sandulenko
41.2.3 Game Translations

CGE

Dan Serban  Soltys English translation
Victor González  Soltys Spanish translation
Alejandro Gómez de la Muñoza  Soltys Spanish translation

CGE2

Arnaud Boutonné  Sfinx English translation
Thierry Crozat  Sfinx English translation
Peter Bozsó  Sfinx English translation editor
Ryan Clark  Sfinx English translation editor
41.2. Other contributions

41.2.4 Websites (design)

<table>
<thead>
<tr>
<th>Name</th>
<th>Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dobó Balázs</td>
<td>Website design</td>
</tr>
<tr>
<td>William Claydon</td>
<td>Skins for doxygen, buildbot and wiki</td>
</tr>
<tr>
<td>Yaroslav Fedevych</td>
<td>HTML/CSS for the website</td>
</tr>
<tr>
<td>Jean Marc Gimenez</td>
<td>ScummVM logo</td>
</tr>
<tr>
<td>David Jensen</td>
<td>SVG logo conversion</td>
</tr>
<tr>
<td>Raina</td>
<td>ScummVM forum buttons</td>
</tr>
</tbody>
</table>
### 41.2.5 Code contributions

<table>
<thead>
<tr>
<th>Name</th>
<th>Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ori Avtalion</td>
<td>Subtitle control options in the GUI; BASS GUI fixes</td>
</tr>
<tr>
<td>Stuart Caie</td>
<td>Decoders for Amiga and AtariST data files (AGOS engine)</td>
</tr>
<tr>
<td>Paolo Costabel</td>
<td>PSP port contributions</td>
</tr>
<tr>
<td>Martin Doucha</td>
<td>CinE engine objectification</td>
</tr>
<tr>
<td>Thomas Fach-Pedersen</td>
<td>ProTracker module player, Smacker video decoder</td>
</tr>
<tr>
<td>Tobias Gunkel</td>
<td>Sound support for C64 version of MM/Zak, Loom PCE support</td>
</tr>
<tr>
<td>Dries Harnie</td>
<td>Android port for ResidualVM</td>
</tr>
<tr>
<td>Janne Huttunen</td>
<td>V3 actor mask support, Dig/FT SMUSH audio</td>
</tr>
<tr>
<td>Kovács Endre János</td>
<td>Several fixes for Simon1</td>
</tr>
<tr>
<td>Jeroen Janssen</td>
<td>Numerous readability and bugfix patches</td>
</tr>
<tr>
<td>Keith Kaisershot</td>
<td>Several Pegasus Prime patches and DVD additions</td>
</tr>
<tr>
<td>Andreas Karlsson</td>
<td>Initial port for SymbianOS</td>
</tr>
<tr>
<td>Stefan Kristiansson</td>
<td>Initial work on SDL2 support</td>
</tr>
<tr>
<td>Claudio Matsuoka</td>
<td>Daily Linux builds</td>
</tr>
<tr>
<td>Thomas Mayer</td>
<td>PSP port contributions</td>
</tr>
<tr>
<td>Sean Murray</td>
<td>ScummVM tools GUI application (GSoC 2007 task)</td>
</tr>
<tr>
<td>n0p</td>
<td>Windows CE port aspect ratio correction scaler and right click input method</td>
</tr>
<tr>
<td>Mikesch Nepomuk</td>
<td>MI1 VGA floppy patches</td>
</tr>
<tr>
<td>Nicolas Noble</td>
<td>Config file and ALSA support</td>
</tr>
<tr>
<td>Tim Phillips</td>
<td>Initial MI1 CD music support</td>
</tr>
<tr>
<td>Quietust</td>
<td>Sound support for Amiga SCUMM V2/V3 games, MM NES support</td>
</tr>
<tr>
<td>Robert Crossfield</td>
<td>Improved support for Apple II/C64 versions of MM</td>
</tr>
<tr>
<td>Andreas Röver</td>
<td>Broken Sword I &amp; II MPEG2 cutscene support</td>
</tr>
<tr>
<td>Edward Rudd</td>
<td>Fixes for playing MP3 versions of MI1/Loom audio</td>
</tr>
<tr>
<td>Daniel Schepler</td>
<td>Final MI1 CD music support, initial Ogg Vorbis support</td>
</tr>
<tr>
<td>André Souza</td>
<td>SDL-based OpenGL renderer</td>
</tr>
<tr>
<td>Joel Teichroeb</td>
<td>Android port for ResidualVM</td>
</tr>
<tr>
<td>Tom Frost</td>
<td>WebOS port contributions</td>
</tr>
</tbody>
</table>

### 41.2.6 FreeSCI Contributors

<table>
<thead>
<tr>
<th>Name</th>
<th>Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Francois-R Boyer</td>
<td>MT-32 information and mapping code</td>
</tr>
<tr>
<td>Rainer Canavan</td>
<td>IRIX MIDI driver and bug fixes</td>
</tr>
<tr>
<td>Xiaojun Chen</td>
<td></td>
</tr>
<tr>
<td>Paul David Doherty</td>
<td>Game version information</td>
</tr>
<tr>
<td>Vyacheslav Dikonov</td>
<td>Config script improvements</td>
</tr>
<tr>
<td>Ruediger Hanke</td>
<td>Port to the MorphOS platform</td>
</tr>
<tr>
<td>Matt Hargett</td>
<td>Clean-ups, bugfixes, Hardcore QA, Win32</td>
</tr>
<tr>
<td>Max Horn</td>
<td>SetJump implementation</td>
</tr>
</tbody>
</table>

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Table 2 – continued from previous page

<table>
<thead>
<tr>
<th>Name</th>
<th>Contribution</th>
</tr>
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<tbody>
<tr>
<td>Ravi I.</td>
<td>SCI0 sound resource specification</td>
</tr>
<tr>
<td>Emmanuel Jeandel</td>
<td>Bugfixes and bug reports</td>
</tr>
<tr>
<td>Dmitry Jemerov</td>
<td>Port to the Win32 platform, numerous bugfixes</td>
</tr>
<tr>
<td>Chris Kehler</td>
<td>Makefile enhancements</td>
</tr>
<tr>
<td>Christopher T. Lansdown</td>
<td>Original CVS maintainer, Alpha compatibility fixes</td>
</tr>
<tr>
<td>Sergey Lapin</td>
<td>Port of Carl's type 2 decompression code</td>
</tr>
<tr>
<td>Rickard Lind</td>
<td>MT-32-&gt;GM MIDI mapping magic, sound research</td>
</tr>
<tr>
<td>Hubert Maier</td>
<td>AmigaOS 4 port</td>
</tr>
<tr>
<td>Johannes Manhave</td>
<td>Document format translation</td>
</tr>
<tr>
<td>Claudio Matsuoka</td>
<td>CVS snapshots, daily builds, BeOS and cygwin ports</td>
</tr>
<tr>
<td>Dark Minister</td>
<td>SCI research (bytecode and parser)</td>
</tr>
<tr>
<td>Carl Muckenhoupt</td>
<td>Sources to the SCI resource viewer tools that started it all</td>
</tr>
<tr>
<td>Anders Baden Nielsen</td>
<td>PPC testing</td>
</tr>
<tr>
<td>Walter van Niftrik</td>
<td>Ports to the Dreamcast and GP32 platforms</td>
</tr>
<tr>
<td>Rune van Niftrik</td>
<td>Configuration file editor</td>
</tr>
<tr>
<td>Solomon Peachy</td>
<td>SDL ports and much of the sound subsystem</td>
</tr>
<tr>
<td>Robey Pointer</td>
<td>Bug tracking system hosting</td>
</tr>
<tr>
<td>Magnus Reftel</td>
<td>Heap implementation, Python class viewer, bugfixes</td>
</tr>
<tr>
<td>Christoph Reichenbach</td>
<td>UN*X code, VM/Graphics/Sound/other infrastructure</td>
</tr>
<tr>
<td>George Reid</td>
<td>FreeBSD package management</td>
</tr>
<tr>
<td>Lars Skovlund</td>
<td>Project maintenance, most documentation, bugfixes, SCI1 support</td>
</tr>
<tr>
<td>Rink Springer</td>
<td>Port to the DOS platform, several bug fixes</td>
</tr>
<tr>
<td>Rainer De Temple</td>
<td>SCI research</td>
</tr>
<tr>
<td>Sean Terrell</td>
<td></td>
</tr>
<tr>
<td>Hugues Valois</td>
<td>Game selection menu</td>
</tr>
<tr>
<td>Jordi Vilalta</td>
<td>Numerous code and website clean-up patches</td>
</tr>
<tr>
<td>Petr Vyhnak</td>
<td>The DCL-INFLATE algorithm, many Win32 improvements</td>
</tr>
<tr>
<td>Bas Zoetekouw</td>
<td>Man pages, debian package management, CVS maintenance</td>
</tr>
</tbody>
</table>

Special thanks to Prof. Dr. Gary Nutt for allowing the FreeSCI VM extension as a course project in his Advanced OS course.

Special thanks to Bob Heitman and Corey Cole for their support of FreeSCI.

### 41.2.7 ResidualVM Contributors

**Grim**

<table>
<thead>
<tr>
<th>Name</th>
<th>Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas Allen</td>
<td>Various engine code fixes and improvements</td>
</tr>
<tr>
<td>Torbjörn Andersson</td>
<td>Various code fixes</td>
</tr>
<tr>
<td>Ori Avtalion</td>
<td>Lipsync, LAF support, various code fixes</td>
</tr>
<tr>
<td>Robert Biro</td>
<td>Antialiasing support</td>
</tr>
<tr>
<td>Name</td>
<td>Contribution</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Bastien Bouclet</td>
<td>Various fixes to engine</td>
</tr>
<tr>
<td>David Cardwell</td>
<td>Few fixes to EMI</td>
</tr>
<tr>
<td>Marcus Comstedt</td>
<td>Initial Dreamcast port</td>
</tr>
<tr>
<td>Andrea Corna</td>
<td>Patcher module, various engine improvements</td>
</tr>
<tr>
<td>Jonathan Gray</td>
<td>Various code fixes</td>
</tr>
<tr>
<td>Tobias Gunkel</td>
<td>Initial Android port, few engines fixes</td>
</tr>
<tr>
<td>Azamat H. Hackimov</td>
<td>Configure fix</td>
</tr>
<tr>
<td>Vincent Hamm</td>
<td>Various engine code fixes and improvements</td>
</tr>
<tr>
<td>Sven Hesse</td>
<td>Various compilation fixes</td>
</tr>
<tr>
<td>Matthew Hoops</td>
<td>Smush codec48, Grim and EMI engine improvements</td>
</tr>
<tr>
<td>Erich Hoover</td>
<td>x86-64 fixes, various code fixes and improvements</td>
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<tr>
<td>Max Horn</td>
<td>Few code fixes</td>
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<tr>
<td>Travis Howell</td>
<td>Various code fixes, Windows port</td>
</tr>
<tr>
<td>Joseph Jezak</td>
<td>A lot of engine improvements and fixes</td>
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<tr>
<td>Guillem Jover</td>
<td>Few code improvements</td>
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<tr>
<td>Filippos Karapetis</td>
<td>Compilation fixes</td>
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<tr>
<td>Ingo van Lil</td>
<td>Various fixes and improvements for EMI</td>
</tr>
<tr>
<td>Vincent Pelletier</td>
<td>Various engine and TinyGL improvements</td>
</tr>
<tr>
<td>Joost Peters</td>
<td>Various code fixes</td>
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<tr>
<td>George Macon</td>
<td>Few fixes</td>
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<tr>
<td>Josh Matthews</td>
<td>Few fixes to engine</td>
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<tr>
<td>Matthieu Milan</td>
<td>Various engine improvements</td>
</tr>
<tr>
<td>Gregory Montoir</td>
<td>Few fixes to engine</td>
</tr>
<tr>
<td>Stefano Musumeci</td>
<td>TinyGL backend and engine driver improvements</td>
</tr>
<tr>
<td>Christian Neumair</td>
<td>Various optimisation patches</td>
</tr>
<tr>
<td>Daniel Schepler</td>
<td>Initial grim engine contributor, LUA support</td>
</tr>
<tr>
<td>Dmitry Smirnov</td>
<td>Minor spelling corrections</td>
</tr>
<tr>
<td>Yaron Tausky</td>
<td>Fixes to subtitles</td>
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<tr>
<td>Julien Templier</td>
<td>create_project tool</td>
</tr>
<tr>
<td>Pino Toscano</td>
<td>Debian GNU/Linux package files</td>
</tr>
<tr>
<td>Lionel Ulmer</td>
<td>OpenGL optimisations</td>
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<tr>
<td>cmayer0087</td>
<td>Various engine code fixes</td>
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<tr>
<td>JenniBee</td>
<td>Compilation fixes</td>
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<tr>
<td>karjonas</td>
<td>Various engine code fixes</td>
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<tr>
<td>mparnaudeau</td>
<td>Various grim engine code fixes</td>
</tr>
<tr>
<td>PoulpiFr</td>
<td>Few fixes to Android port</td>
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<tr>
<td>sietschie</td>
<td>Few fixes to engine</td>
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</tbody>
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41.2. Other contributions
Myst 3

<table>
<thead>
<tr>
<th>Name</th>
<th>Contribution</th>
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<tbody>
<tr>
<td>David Fioramonti</td>
<td>Autosave support and few fixes</td>
</tr>
<tr>
<td>Matthew Hoops</td>
<td>Various engine improvements and code fixes</td>
</tr>
<tr>
<td>Stefano Musumeci</td>
<td>TinyGL engine support</td>
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Stark

<table>
<thead>
<tr>
<th>Name</th>
<th>Contribution</th>
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<tbody>
<tr>
<td>Bartosz Dudziak</td>
<td>Various engine improvements and code fixes</td>
</tr>
<tr>
<td>Matthew Hoops</td>
<td>ADPCM decoder</td>
</tr>
<tr>
<td>Paweł Kołodziejski</td>
<td>Various engine code fixes</td>
</tr>
<tr>
<td>Awad Mackie</td>
<td>Few fixes to engine</td>
</tr>
<tr>
<td>Marius Ioan Orban</td>
<td>Code fix</td>
</tr>
<tr>
<td>Vincent Pelletier</td>
<td>Raw sound support</td>
</tr>
<tr>
<td>Jordi Vilalta Prat</td>
<td>Initial engine contributor</td>
</tr>
<tr>
<td>Scott Thomas</td>
<td>Initial engine author</td>
</tr>
<tr>
<td>Will Thomson</td>
<td>Few fixes to engine</td>
</tr>
<tr>
<td>Faalagorn</td>
<td>Few code improvements</td>
</tr>
<tr>
<td>orangeforest11</td>
<td>Few engine improvements</td>
</tr>
</tbody>
</table>

And to all the contributors, users, and beta testers we’ve missed. Thanks!
41.3 Special thanks to

<table>
<thead>
<tr>
<th>Name</th>
<th>Contribution</th>
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</thead>
<tbody>
<tr>
<td>Daniel Balsom</td>
<td>For the original Reinherit (SAGA) code</td>
</tr>
<tr>
<td>Sander Buskens</td>
<td>For his work on the initial reversing of Monkey2</td>
</tr>
<tr>
<td>Dean Beeler</td>
<td>For the original MT-32 emulator</td>
</tr>
<tr>
<td>Kevin Carnes</td>
<td>For Scumm16, the basis of ScummVM’s older gfx codecs</td>
</tr>
<tr>
<td>Curt Coder</td>
<td>For the original TrollVM (preAGI) code</td>
</tr>
<tr>
<td>Patrick Combet</td>
<td>For the original Gobliiins ADL player</td>
</tr>
<tr>
<td>Ivan Dubrov</td>
<td>For contributing the initial version of the Gobliiins engine</td>
</tr>
<tr>
<td>Henrik Engqvist</td>
<td>For generously providing hosting for our buildbot, SVN repository, planet and doxygen sites as well as tons of HD space</td>
</tr>
<tr>
<td>DOSBox Team</td>
<td>For their awesome OPL2 and OPL3 emulator</td>
</tr>
<tr>
<td>Yusuke Kamiyamane</td>
<td>For contributing some GUI icons</td>
</tr>
<tr>
<td>Till Kresslein</td>
<td>For design of modern ScummVM GUI</td>
</tr>
<tr>
<td>Jezar Wakefield</td>
<td>For his freeverb filter implementation</td>
</tr>
<tr>
<td>Jim Leiterman</td>
<td>Various info on his FM-TOWNS/Marty SCUMM ports</td>
</tr>
<tr>
<td>Lloyd Rosen</td>
<td>For deep tech details about C64 Zak &amp; MM</td>
</tr>
<tr>
<td>Sarien Team</td>
<td>Original AGI engine code</td>
</tr>
<tr>
<td>Jimmi Thøgersen</td>
<td>For ScummRev, and much obscure code/documentation</td>
</tr>
<tr>
<td>Tristan Matthews</td>
<td>For additional work on the original MT-32 emulator</td>
</tr>
<tr>
<td>James Woodcock</td>
<td>Soundtrack enhancements</td>
</tr>
<tr>
<td>Anton Yartsev</td>
<td>For the original re-implementation of the Z-Vision engine</td>
</tr>
</tbody>
</table>

Tony Warriner and everyone at Revolution Software Ltd. for sharing with us the source of some of their brilliant games, allowing us to release Beneath a Steel Sky as freeware... and generally being supportive above and beyond the call of duty.

John Passfield and Steve Stamatiadis for sharing the source of their classic title, Flight of the Amazon Queen and also being incredibly supportive.

Joe Pearce from The Wyrmkeep Entertainment Co. for sharing the source of their famous title Inherit the Earth, for sharing the source of The Labyrinth of Time and for always replying promptly to our questions.

Aric Wilmunder, Ron Gilbert, David Fox, Vince Lee, and all those at LucasFilm/LucasArts who made SCUMM the insane mess to reimplement that it is today. Feel free to drop us a line and tell us what you think, guys!

Alan Bridgman, Simon Woodroffe and everyone at Adventure Soft for sharing the source code of some of their games with us.

John Young, Colin Smythe and especially Terry Pratchett himself for sharing the source code of Discworld I & II with us.

Emilio de Paz Aragón from Alcachofa Soft for sharing the source code of Drascula: The Vampire Strikes Back with us and his generosity with freewaring the game.

David P. Gray from Gray Design Associates for sharing the source code of the Hugo trilogy.
The mindFactory team for writing Broken Sword 2.5, a splendid fan-made sequel, and for sharing the source code with us.

Neil Dodwell and David Dew from Creative Reality for providing the source of Dreamweb and for their tremendous support.

Janusz Wiśniewski and Miroslaw Liminowicz from Laboratorium Komputerowe Avalon for providing full source code for Sołtys and Sfinx and letting us redistribute the games.

Jan Nedoma for providing the sources to the Wintermute-engine, and for his support while porting the engine to ScummVM.

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John Romero for sharing the source code of Hyperspace Delivery Boy! with us.

Steffen Dingel for sharing the source code of the Mission Supernova game with us.

The LUA developers, for creating a nice compact script interpreter.

Tim Schafer, for obvious reasons, and everybody else who helped make Grim Fandango a brilliant game; and the EMI team for giving it their best try.

Bret Mogilefsky, for managing to create a SPUTM-style 3D LUA engine, and avoiding the horrible hack it could have been.

Benjamin Haisch, for emimeshviewer, which our EMI code borrows heavily from.
Chapter 42

Release notes

For a more comprehensive changelog of the latest experimental code, see:  https://github.com/scummvm/scummvm/commits/

42.1  2.3.0 (XXXX-XX-XX)

New games:

• Added support for Grim Fandango.
• Added support for The Longest Journey.
• Added support for Myst 3: Exile.
• Added support for Hades’ Challenge.
• Added support for Little Big Adventure.
• Added support for Red Comrades 1: Save the Galaxy.
• Added support for Red Comrades 2: For the Great Justice.
• Added support for Transylvania.
• Added support for Crimson Crown.
• Added support for OO-Topos.
• Added support for Glulx interactive fiction games
• Added support for Lure of the Temptress Konami release.
• Added support for Private Eye (US release).
• Added support for Spanish Blue Force.
• Added support for Spanish Ringworld.
• Added support for Spanish Amazon: Guardians of Eden.
• Added support for AGS Games versions 2.5+

New ports:
• The Nintendo DS port got a major rewrite.

General:
• Switched ScummVM GUI output to UTF-32.
• Updated the Roland MT-32 emulation code to the Munt project’s mt32emu 2.5.0.
• Updated Dropbox Cloud Storage to use the new Dropbox OAuth workflow.
• Major extension to the number of supported graphics scalers.
• Display path to scummvm configuration file in GUI -> Options -> Paths.
• Added new optional dependency, giflib >= 5.0.0. Used by some version of LBA.
• Added HiDPI support to the ScummVM GUI.
• Added command line option –window-size for specifying ScummVM window size, applicable only to the OpenGL renderer.

AGOS:
• Added support for the Japanese PC-98 version of Elvira 1.

Dreamweb:
• Rendering fixes for Russian fan translation.

Glk:
• Fixed savegame issues with several subengines.
• Fixed memory overrun in Level9 game detector.
• Added detections for 2020 IF Comp games.
• Enabled Glulx sub-engine.

Gob:
• Added support for Bargon Attack Russian translation.
• Added support for Woodruff Russian translation.

Griffon:
• Fixed Return to Launcher from The Griffon Legend.

Grim:
• Added support for Brazilian Portuguese Grim Fandango.

Kyra:
• Added support for the Japanese Sega-CD version of Eye of the Beholder.
• Added support for the Hebrew fan translation of Legend of Kyrandia.
• Added support for the Simplified Chinese version of Legend of Kyranidia 3.
• Added support for the playable demo of Lands of Lore.

Lure:
• Fixed fire animation in first room when loading saves.
• Fixed MT-32 support.

Pegasus:
• Added support for DVD/GOG.com release.

Queen:
• Added support for German Amiga floppy release.

SAGA:
• Added support for ITE GOG Mac CD v1.1.
• Added support for ITE PC-98 Japanese.

SCI:
• Added RGB rendering mode (16/32bpp) for SCI0 - SCI1.1 games, which addresses palette issues in screen transitions and avoids mode changes when playing Mac QuickTime videos.
• Added custom palette mods for SQ3 and LSL2 from the FreeSCI project. When enabled, the mods improve the visuals in these two games.
• Added support for the Korean fan translations of Castle of Dr. Brain, Eco Quest, Gabriel Knight, King’s Quest 1, 5 and 6, Laura Bow 2: Dagger of Amon Ra and Space Quest 4.
• Added support for numerous Korean translations from scummkor project.
• Added detection for LSL6 Russian.
• Added detection for alternate LSL7 Russian.

SCUMM:
• Fixed Chinese, Japanese and Korean text display for The Dig and for The Curse of Monkey Island. These fixes also include some improvements to the common text display (mainly the formatting of wrapped texts).
• Fixed display of Chinese, Japanese and Korean pause and restart dialogs.
• Added support for numerous Korean translations from scummkor project.
• Added support for Russobit-M versions of Pajama2 and SpyOzone.
• Fixed speech playback in Akella version of COMI.
• Added support for Discord and Humble Bundle versions of Indiana Jones and the Fate of Atlantis.
• Added smooth scrolling for FM-TOWNS versions of games.
• Added optional trimming to 200 pixels for some FM-TOWNS games, so aspect-ratio correction is possible.

• Fixed audio distortion in Loom for PC-Engine.

• Added support for the high resolution font and cursor in the Macintosh version of Loom.

  Tinsel:
  • Enabled the Return to Launcher feature.

  TsAGE:
  • Added support for uninstalled floppy version.

  Stark:
  • Added support for Hungarian translation.

  Supernova:
  • Added Italian translation for part 1.

  Sword25:
  • Made the extracted version working.
  • Fixed crash when selecting Croatian language.

  Ultima:
  • Ultima 4: Added several debugger commands.
  • Ultima 4: Allow Enter key to exit ZStats display.

  Xeen:
  • Fixed occasional border corruption during fights.
  • Improvements to cutscenes to better match the original games.
  • Fixes for character selection, deselection, and dismissing to better match original.

  AmigaOS port:
  • Add native system file browser feature
  • Re-activate nuked OPL Adlib driver

  MorphOS port:
  • Added native system file browser feature
  • Added Cloud feature
  • Re-activate nuked OPL Adlib driver
  • Added CAMD MIDI driver support
New games:

- Added support for Blazing Dragons.
- Added support for Griffon Legend.
- Added support for Interactive Fiction games based on the following engines: ADRIFT (except for version 5), AdvSys, AGT, Alan 2 & 3, Archetype (newly reimplemented for Glk from the original Pascal sources), Hugo, JACL, Level 9, Magnetic Scrolls, Quest, Scott Adams, ZCode (all ZCode games except the Infocom graphical version 6 games). Currently, more than 1600 games are detected and supported.
- Added support for Operation Stealth.
- Added support for Police Quest: SWAT.
- Added support for English translation of Prince and the Coward.
- Added support for Ultima IV - Quest of the Avatar.
- Added support for Ultima VI - The False Prophet.
- Added support for Ultima VIII - Pagan.

New ports:

- MorphOS port got a major rewrite.

General:

- Autosaves are now supported for all the engines.
- Errors are more likely to open the debugger, and be displayed, than just crash ScummVM.
- Games are sorted in GUI ignoring the articles.
- Now Hebrew is displayed correctly in GUI (requires FriBiDi library).
- Updated the Roland MT-32 emulation code to Munt 2.4.0.
- Added option to select the default voice for ports that support Text-to-Speech.
- Added support for Discord Rich Presence integration on supported platforms (Windows Vista+, macOS 10.9+ 64 Bit)
- Major improvements to the keymapper.
- Games are now recognised by engineid:gameid combination.

BBVS:

- Added support for the demo, available from our website.
- Added support for the Loogie minigame demo.

Dreamweb:

- Added support for Russian fan-translation.
• Fixed animation speed.
  Illusions:
• Fixed subtitle speed (set it to max for good speed).
• Added support for Russian Duckman.
  Kyra:
• Added support for the SegaCD version of Eye of the Beholder I (with CD-Audio, animated cutscenes and map function).
• Added support for the PC-98 version of Eye of the Beholder I.
• Added support for the Spanish versions of Eye of the Beholder I and II, Legend of Kyrandia 1 (CD-ROM fan translation) and Legend of Kyrandia 2 (floppy version and CD-ROM fan translation). Fix Spanish Lands of Lore support (floppy version and CD-ROM fan translation).
  Lab:
• Fixed sound looping in some rooms.
  Neverhood:
• Added support for bigger demo, available from our website.
  Prince:
• Fixed inventory item descriptions display.
• Added English translation.
• Fixed bug with infinite loop when looking at some objects.
  Queen:
• Fixed loading a save game from the launcher.
• Fixed random long delays when starting a game.
  SCI:
• Major improvements to Amiga and Mac sound drivers.
• Improved MIDI playback and fixed many audio issues.
• Fixed 30 original script bugs in ECO2, GK1, KQ4, KQ5, KQ6, KQ7, LB1, LONGBOW, PHANT2, QFG1, QFG3, QFG4, SQ5 and SQ6.
• Fixed a script bug responsible for rare and random lockups in most Sierra games between 1992-1996.
• Added support for Inside the Chest / Behind the Developer’s Shield.
• Added support for German LSL6-Floppy.
• Added support for Hebrew Torin’s Passage.
• Added support for Italian Lighthouse.
• Added support for Polish KQ5, LSL2, LSL3, LSL5 and LSL6-Floppy.
• Fixed Russian LSL1 error when hailing a taxi.
• Fixed Phantasmagoria 2 error when attempting easter eggs.
• Fixed QFG3 auto-saves.
• Fixed QFG4 and Shivers save game thumbnails being obscured by control panels.
• Fixed a random crash in the Windows version when exiting a game.
• Added support for Roland D-110 sound driver.
• The “Prefer digital sound effects” checkbox works correctly now for SCI01/SCI1 games.

SCUMM:
• Fixed palette issues leading to incorrect colors in MM NES intro and dark rooms.
• Fixed the rendering of the flashlight in MM NES to match the original version.
• Replaced the existing NES palette to a more accurate NTSC palette based on Mesen.
• Added a new GUI option to switch to an alternative NES palette based on the NES Classic.
• Improved colors in Apple //gs Maniac Mansion.
• Fixed crash when entering garage in Apple //gs Maniac Mansion.
• Added support from Classic Full Throttle from Remastered release.

Supernova:
• Improved English translation.

Sky:
• Fixed syncing of music volume between native settings panel and ScummVM configuration.

Sword1:
• Added support for localized menus in Novy Disk Russian Trilogy release.
• Added support for Spanish playable Demo available from our website.

Sword2:
• Added support for Spanish playable Demo available from our website.

Titanic:
• Fixed Barbot crash after asking what else he needs.

Wintermute:
• Added subsystem for tracking achievements, implemented for 10+ games.

Xeen:
• Add missing sprite drawer for enemies hit by Energy Blast.
• Fixed freeze due to bad mob data at the top of Witches Tower.
• Fix crash loading some savegames directly from the launcher.
• Fix curing the well in Nightshadow.
• Fix loading of wall items from savegames.
• Fix U/D keys not working on Quests dialog
• Fix incorrect mirror destination for Dragon Tower
• Fix crash reading book in Great Pyramid safe
• Prevent attributes from going negative
• Fix border faces animation during Clairvoyance
  ZVision:
• Fixed regression in the safe puzzle in Zork Nemesis: The Forbidden Lands.
• Fixed getting perfect score in Zork: Grand Inquisitor.
  Android port:
• Added support for immersive fullscreen mode.
• Improved keyboard and mouse input.
  iOS port:
• Fixed unsupported graphic mode for some games (such as SCI games with high quality video scaling enabled).
• Removed Quit button to follow the iOS design guidelines.
• Removed virtual keyboard input assistant bar. In particular this means that we no longer see a bar at the bottom of the screen when using an external keyboard.
• Added save of current game state if possible when switching to a different task and restore game state when returning to the ScummVM task.
  Linux port:
• Added option to use the system file browser instead of the ScummVM file browser.
  MacOS X port:
• Fixed blurry on Retina screens. Unfortunately this required dropping support for the dark theme for window decorations.
• Fixed Taskbar icon display when running a game (this was broken since ScummVM 1.9.0).
  RISC OS port:
• Added a VFP optimized build for newer hardware.
  Windows port:
• Added support for using additional OneCore voices for text to speech.
• Active support for Windows Vista and lower is now discontinued. While we still provide builds for those systems in the foreseeable future, some newer features might be missing.
42.3 2.1.2 “Fixing Powerful Windows” (2020-03-31)

Windows port:
• Fixed an issue with the Sparkle updater which lead to an infinite update loop.

MacOS X port:
• Fixed application freeze on start on Mac OS X 10.5 and older.
• Fixed application icon on Mac OS X 10.5 and older.

42.4 2.1.1 “:More sheep:” (2020-01-31)

General:
• Fixed crash when switching certain languages in GUI.
• Fixed ESC erroneously saving the changes in the options dialog.
• Improvements in FM-TOWNS/PC-98 audio.
• Improved Greek language support in the GUI.

Networking:
• Improved error handling.
• Only download saves when necessary.

Bladerunner:
• Fixed buggy savestate in some scenes.
• Added engine checkbox to target 120fps.
• Fixed thumbnail portability.
• Use virtual keyboard on save screen on relevant platforms.

Kyra:
• Fixed EOB1-Amiga ending sequence (which would play only if you achieved all bonus quests).
• Fixed monster random item drop chance in EOB1.
• Added handling for the secret potion in the Legend of Kyrandia 2.
• Fixed sound issues in the Legend of Kyrandia 2.
• Fixed graphics glitches in Legend of Kyrandia 1 and 3, EOB1 and EOB2-FM-TOWNS.

Mohawk:
• Persist changes in game options across sessions.

Queen:
• Fixed regression with the display of the bellboy dialogue.

SCI:
• Numerous game script fixes in CAMELOT, ECO2, GK1, GK2, KQ7, PHANT1, PQ1VGA, QFG3, QFG4, SQ5 and SQ6.
• Implement horizontal and FM-TOWNS type screen shake.
• Added support for Phantasmagoria 1 censored mode.
• Added support for Polish LSL7.
• Added support for Italian GK2.
• Added support for Portuguese GK2.
• Added support for Russian KQ7.
• Added support for Russian SQ1VGA.
• Added support for GK2 fan-made subtitle patches.

SCUMM:
• Added support for Pajama2 (UK release).

Supernova:
• Hooked F5 to the Main Menu.

Toltecs:
• Added Czech version support.
• Fixed exiting from game menus when returning to the launcher.

Wintermute:
• Added several missing game variants and demos to the detection tables.
• Fixed regression with stack handling.
• Fixed the behavior of edit boxes.
• Improved support for Chinese language game variants.

Xeen:
• Fixed display of gold and gem amounts on the Switch.
• Fixed tavern exit locations in Swords of Xeen.
• Fixed crash loading Deep Mine Alpha in World of Xeen CD.

GUI:
• MIDI setting tabs are no longer shown if a game has no music at all.

All ports:
• Fixed screen filling in non-paletted screen modes.

3DS port:
• Major improvements.

AmigaOS4 port:
• Minor tweaks (stack cookie, build automation).

Android port:
• Improved filesystem navigation.
• Proper handling of HiDPI displays.
• Improved keyboard support.

iOS port:
• The home indicator is now automatically hidden on iPhone X and later models.

MacOS X port:
• Follow the OS dark theme for window decorations.

RISC OS port:
• Fixed crash when accessing an unavailable drive.
• Reduced the required DigitalRenderer version.

Switch port:
• Added cloud integration.

OpenPandora port:
• Minor improvements.

Windows:
• Added Text-to-Speech support.
• Fix screenshots with Unicode paths.

42.5 2.1.0 “Electric Sheep” (2019-10-11)

New games:
• Added support for Blade Runner.
• Added support for Duckman: The Graphic Adventures of a Private Dick.
• Added support for Hoyle Bridge.
• Added support for Hoyle Children’s Collection.
• Added support for Hoyle Classic Games.
• Added support for Hoyle Solitaire.
• Added support for Hyperspace Delivery Boy!
• Added support for Might and Magic IV - Clouds of Xeen.
• Added support for Might and Magic V - Darkside of Xeen.
• Added support for Might and Magic - World of Xeen.
• Added support for Might and Magic - World of Xeen 2 CD Talkie.
• Added support for Might and Magic - Swords of Xeen.
• Added support for Mission Supernova Part 1.
• Added support for Mission Supernova Part 2.
• Added support for Quest for Glory: Shadows of Darkness.
• Added support for The Prince and the Coward.
• Added support for Versailles 1685.

  New ports:
• Added Nintendo Switch port.

  General:
• Improved GUI rendering and overall GUI performance.
• Added stretch mode option to control how the display is stretched to the window or screen area.
• Fixed incorrect cursor movement when it’s controlled using the keyboard.
• Updated the Roland MT-32 emulation code to Munt 2.3.0.
• Improved unknown game variants reporting.
• Enabled cloud support.
• Added Text to Speech capabilities for better accessibility on some platforms.

  ADL:
• Improved color accuracy.
• Added a TV emulation mode.
• Added support for the WOZ disk image format.

  Dracula:
• Fixed loading game from launcher when the game had been saved in chapter 1.

  Full Pipe:
• Fixed playtime not being restored when loading a savegame.
• Fixed a bug that leads to enormous memory consumption in scene 22.

Kyra:
• Added support for the Amiga version of Eye of the Beholder I + II.
• Added support for the FM-Towns version of Eye of the Beholder II.
• Several bug fixes.

MOHAWK:
• Added a main menu for the 25th anniversary release of Myst ME.
• Repurposed the landing menu as a main menu for the 25th anniversary release of Riven.
• Added autosave to slot 0 to Myst and Riven.
• Added keyboard shortcuts for loading and saving as documented in the game manual to Myst and Riven.
• Fixed a crash caused by the observatory viewer random position going out of bounds in Myst.
• Fixed a crash caused by Jungle Island flies going out of bounds in Riven.
• Fixed missing end credits for the Polish version in Riven.
• Improved usability for some puzzles in Myst and Riven.
• Fixed various crashes, graphics glitches, and sound imperfections in Myst and Riven.

Mortevielle:
• Added speech synthesis on some platforms.

SCI:
• Added LarryScale, a high quality cartoon scaler for Leisure Suit Larry 7.
• Fixed over 100 original game script bugs in CAMELOT, ECO1, ECO2, FREDDYPHARKAS, GK1, HOYLES, ICEMAN, KQ6, LB1, LB2, LONGBOW, LSL6, MOTHERGOOSE256, PQ3, PQ4, QFG1VGA, QFG4, and SQ4.
• Fixed a bug in version 2.0.0 that prevented the Macintosh versions of Freddy Pharkas, King’s Quest 6, and Quest for Glory 1 (VGA) from loading.
• Fixed a crash in the Macintosh version of Freddy Pharkas when picking up the shovel which makes the game completable.
• Fixed loading autosave games.

SCUMM:
• Implemented lipsync for v6 and v7+ games.
• Improved Audio quality in Humongous Entertainment games by using the Miles AdLib driver.
• Fixed possible stack overflows in The Dig and Full Throttle.
• Fixed original speech glitch on submarine in Indiana Jones and the Fate of Atlantis. Users need to recompress their monster.sou using an up-to-date version of scummvm-tools for this to take effect when using compressed audio.

• Fixed an issue in the wig maker room in the German version of SPY Fox 3: Operation Ozone which makes the game completable.

• Added sound driver for the Amiga versions of Monkey Island 2 and Indiana Jones and the Fate of Atlantis.

Sherlock:

• Fixed crash in Spanish version talking to lady in Tailor shop.

SKY:

• Added workaround for original game bug to improve intro and not cut off images which exist as fullscreen (320x200px) in the game data files.

Tinsel:

• Fix loading Discworld 1 savegames from the launcher where Rincewind had a held item.
• Script patch for hang in Discworld 1 GRA using items on Temple big hammer.
• In Discworld 1, Held items being released that were never in the Luggage or Rincewind’s inventory will now be automatically dropped into the Luggage rather than being lost.

Titanic:

• Fixed bug in entering floor numbers numerically that could crash the game.
• Fixed parser not getting properly reset across sentences in a conversation.
• Fixed endless busy cursor on Titania closeup when brain slots are incorrectly inserted.
• Fixed loading saves in front of Barbot could cause him to go into an infinite animation loop.
• Fixed crash asking Parrot who sabotaged the ship.

Tucker:

• Fixed multiple graphic issues in Bud Tucker in Double Trouble.
• Fixed multiple issues with font and subtitle rendering.
• Fixed dentist music in mall being played incorrectly.
• Fixed wrong sound effects being played.
• Fixed a bug that made the bubbles in the Plugs Shop not always visible.
• Fixed a missing animation when Ego and Billie are on the boat.
• Fixed a bug that caused a dead end in the second museum scene.
• Bud is no longer able to walk outside the walkable area when visiting the club.
• Bud is also no longer able to walk through closed doors.
• Added mouse wheel support for inventory scrolling.
• Allow skipping of speech.
• Improved savegame handling and added support for autosaves.

ZVISION:
• Fixed graphical glitch in Zork: Grand Inquisitor.
• Packaged the required fonts with ScummVM.
• Enabled hires movies in the DVD version of Zork: Grand Inquisitor (requires libmpeg2 and libac52).

Android port:
• Rewrote to make use of the OpenGL Graphics Manager.
• Added a button to show the virtual keyboard.
• Implemented clipboard support.
• Use the dedicated GUI option for enabling the touchpad mode.
• Added code for searching accessible external media.

iOS port:
• Added support for Smart Keyboard.
• Added three-fingers swipe gestures to simulate arrow keys.
• Added pinch in and out gestures to show and hide the keyboard.
• Added scrollable accessory bar above the keyboard with keys not present on the keyboard.

macOS port:
• Added option to use the ScummVM file browser instead of the system file browser.
• Added access to documentation from the Help menu.

PS Vita port:
• Implemented front touch and optional rear touch controls.

PSP port:
• Implemented aspect ratio correction.
• Improved smoothness of mouse pointer motion.
• Added mouse pointer speed and analog nub deadzone settings.

SDL ports (including Windows, Linux, macOS):
• Added support for game controllers.
• Added support for adding games via Drag and Drop.

Windows port:
• Added option to use the system file browser instead of the ScummVM file browser.

RISC OS port:
• Added a StrongHelp manual.
• Added error reporting using !Reporter.

42.6 2.0.0 (2017-12-17)

New Games:
• Added support for Full Pipe.
• Added support for Hi-Res Adventure #3: Cranston Manor.
• Added support for Hi-Res Adventure #4: Ulysses and the Golden Fleece.
• Added support for Hi-Res Adventure #5: Time Zone.
• Added support for Hi-Res Adventure #6: The Dark Crystal.
• Added support for Riven.
• Added support for Starship Titanic English & German.

New Games (Sierra SCI2 - SCI3):
• Added support for Gabriel Knight.
• Added support for Gabriel Knight 2.
• Added support for King’s Quest VII.
• Added support for King’s Questions.
• Added support for Leisure Suit Larry 6 (hires).
• Added support for Leisure Suit Larry 7.
• Added support for Lighthouse.
• Added support for Mixed-Up Mother Goose Deluxe.
• Added support for Phantasmagoria.
• Added support for Phantasmagoria 2.
• Added support for Police Quest 4.
• Added support for RAMA.
• Added support for Shivers.
• Added support for Space Quest 6.
• Added support for Torin’s Passage.

New ports:
• Added PSP Vita port.
• Added RISC OS port.
  General:
  • Added bilinear filtering option for SDL2 fullscreen mode.
  • Fixed a bug that caused a crash in the options dialog of the GUI.
  • Added a command-line option to automatically scan for supported games in the current or a specified directory.
  • Added possibility to apply changes in the options dialog without closing the dialog.
  • Added support for on-the-fly GUI language switching.
  • Updated Munt MT-32 emulation code to version 2.0.3.
  • Improved handling of joysticks.
  • Improved audio latency.
  • Improved management of the ScummVM window in games that switch display modes.
  • Fixed list view drawing over text above it (for example in the save dialog).
  • Changed location where screenshot are saved. This fixes issues when scummvm is installed in a read-only directory. Also added setting to allow changing this location.
  • Changed screenshot format to png.
  • Fixed multithreading issue that could cause a crash in games using MP3 audio.
  ADL:
  • Fixed application freeze when reading sign in rocket in Mission Asteroid.
  AGI:
  • Fixed game script blocking forever after loading a savegame that was saved while music was playing (this could happen for example in Police Quest 1 poker back room.
  • Fixed cursor behaviour in Manhunter.
  • Fixed nightclub arcade sequence speed for Manhunter Apple IIgs version.
  • Reduced fastest game speed to a maximum of 40 FPS to ensure the games do not run too fast.
  AGOS:
  • Fixed subtitle speed setting in the Hebrew version of Simon the Sorcerer 1.
  Composer:
  • Added save/load from General Main Menu.
  • Fixed the detection for the French Gregory.
  • Added detection for German Baba Yaga.
  Cruise:
• Fixed font rendering.
  Dracula:
  • Fixed bug that made it impossible to talk to the drunkard more than once in the inn.
  • Added handling of the master volume and fix volume synchronization between the game and
    ScummVM options.
  • Added possibility to load and save games using GMM.
  Dreamweb:
  • Fixed crash when collecting last stones under church.
  • Fixed detection of Italian CD release.
  Kyra:
  • Fixed a buffer overflow in Lands of Lore.
  • Fixed crash due to missing palette data for Legend of Kyrandia floppy version.
  MADE:
  • Fixed badly distorted sound (bug #9753).
  MADS:
  • Fixed a bug that caused a crash after starting Rex Nebular and the Cosmic Gender Bender.
  • Fix rare crash that can happen when Rex is first locked up
  MOHAWK:
  • Added patch to the original data files to correct the vault access instructions in Myst ME.
  • Fixed situations where Myst could appear to be unresponsive.
  • Reworked sound handling in Myst to be more accurate.
  • Fixed crash in Myst piano puzzle.
  Neverhood:
  • Fixed crash in musical hut in Russian DR version.
  • Fixed late game notes crash in Russian DR version.
  Pegasus:
  • Fixed loading a game from the launcher after returning to the launcher.
  • Ignored events occurring while the GUI is visible. This for example fixed an issue where closing
    the GMM using Escape would also opens the game's own menu.
  • Fixed several crashes when toggling the shared screen space.
  • Improved performances when fading screen.
  SAGA:
  • Fixed crash when using the give verb on an actor in IHNM.
• Fixed Gorrister invisible and stuck when reloading at mooring ring in IHNM.
• Fixed the conversation panel background color in IHNM.
• Added support French Fan Translation of Inherit the Earth.

SCI:
• Fixed a script bug in Laura Bow 2: Dagger of Amon Ra that made it impossible to exit the party room with the large golden head inside the museum (room 350). This bug is also present, when using the original interpreter.
• Improved startup speed when using the MT-32 emulator.
• Improved handling of MT-32 reverb in SCI0 games.
• Improved selection of synthesized sound effects in SCI0 games.
• Improved selection of digital audio in SQ4.
• Improved resource bounds checking.
• Improved error handling of corrupt MIDI data.
• Fixed slow leak of small amounts of data into save games over time.
• Fixed broken day/night cycle in QFG3.
• Fixed a script bug in Police Quest 3 to now grant 10 points when giving the locket to Marie. Now it’s possible to beat the game with a perfect score. This bug is also present when using the original interpreter.
• Fixed various other script bugs.
• Improved audio volume and settings synchronization.

SCUMM:
• Fixed crash in amiga games.
• Fixed two soundtracks playing at once in Monkey Island 2.
• Fixed Caponians don’t disguise after using blue crystal in Zak McKracken.
• Fixed Dr. Fred facing wrong way in lab cutscene in Maniac Mansion.
• Fixed actors being drawn one line too high in V0 and V1 games.
• Fixed Purple Tentacle appears in Lab Entry after being chased out in maniac Mansion.
• Fixed power not turning back on in Maniac Mansion when entering the lab while Dr. Fred has the power off.
• Fixed actors skipping between certain walk-boxes in Maniac Mansion.

Sherlock:
• Fixed detection for Italian fan translation of Serrated Scalpel.

Sky:
• Fixed collision detection.
  Sword1:
• Added thumbnail when saving from in-game dialog.
• Fixed audio and subtitles settings being changed when open the load/save in-game dialog.
  Tinsel:
• Fixed some Discworld 2 text/voice not displaying & playing all the way through
• Fix crash in in-game save menu when all slots are used with long names
  TsAGE:
• Fixed regression preventing animations in Return to Ringworld from playing.
• Fixed display issues in Return to Ringworld Demo.
• Fixed loading Return to Ringworld savegames with unreferenced dynamic objects.
• Fixed deadlock in audio code.
• Fixed crash on Return to Launcher.
  Voyeur:
• Fixed backgrounds not showing for static rooms.
• Fixed playback of audio events on VCR.
• Fixed exiting game from the VCR screen.
• Added workaround for original game bug using invalid hotspot IDs
  macOS port:
• Added support for selecting any connected MIDI devices instead of automatically using the first one.
• Improved behaviour of the file browser.

42.7 1.9.0 “Myst-ery U.F.O.s release” (2016-10-17)

New Games:
• Added support for Myst.
• Added support for Myst: Masterpiece Edition.
• Added support for U.F.O.s.
• Added support for Hi-Res Adventure #0: Mission Asteroid.
• Added support for Hi-Res Adventure #1: Mystery House.
• Added support for Hi-Res Adventure #2: The Wizard and the Princess.

General:
• Fixed audio corruption in the MS ADPCM decoder.
• Fixed audio pitch in the CMS/GameBlaster emulation.
• Switched SDL backend to SDL2 by default. SDL1 is still a fallback.

AGI:
• Added support for Hercules rendering. Both green and amber modes are supported.
• Added support for the Hercules high resolution font. The font is also usable outside of Hercules rendering.
• Added optional “pause, when entering commands” feature, that was only available in the original interpreter for Hercules rendering.

Beneath a Steel Sky:
• Fixed a bug that could possibly make the game unfinishable due to a wrong animation for Officer Blunt that makes further interaction with this character impossible.

Gob:
• Fixed graphical issues in Gobliiins (EGA version).

Kyra:
• Updated Italian EOB1 translation.
• Fixed a bug that caused a crash in Lands of Lore.

SCI:
• Fixed a missing dialog line in QfG3 which awards the player with 3 additional points. This is a bug in the original game interpreter. Due to this bug, it was not possible to get all points in the original game.
• Fixed a bug in Space Quest 1 that caused issues with the spider droid.
• Fixed a bug in Laura Bow: The Colonel’s Bequest that could cause a lock-up when interacting with the armor in room 37 (main house, downstairs). This bug is also present in the original game.
• Fixed auto-saving in the fan-made Cascade Quest.
• Fixed a game bug in the Conquests of Longbow scripts that could cause crashes in Sherwood Forest.
• Added support for the ImagiNation Network (INN) demo.

SCUMM:
• Fixed missing translations in the in-game quit and restart dialogs in Pajama Sam 1.
• Fixed visual glitches in DOTT that occurred after loading a savegame with the stereo in Green Tentacle's room turned on.
• Improved timing and pathfinding in Maniac Mansion (C64 and Apple II versions)
• Added support for the Dutch demo of Let’s Explore the Airport with Buzzy.

Sherlock:
• Fixed a bug that could cause a crash in The Case of the Serrated Scalpel.
• Fixed an issue with item hotspots in The Case of the Serrated Scalpel.
• Fixed a bug that caused game lockups in the inventory of The Case of the Rose Tattoo.

Amiga port:
• Added support for AmiUpdate autoupdates.

Linux port:
• Added basic support for the snap packaging system.

Windows port:
• Fixed taskbar support on Windows 10 onwards.
• Fixed keymapping for non-QWERTY keyboards.
• Added support for WinSparkle updater.

42.8 1.8.1 “Where Is Your Android?” (2016-05-25)

New ports:
• Added Nintendo 3DS port.
• Added Android SDL port.

General:
• Removed TESTING flag from several supported games.
• Added Chinese Pinyin translation.
• Fixed cursor stuttering in the launcher that occured on some systems.

BBVS:
• Fixed game restart.

CinE:
• Fixed sound effect loading.

Drascula:
• Fixed text alignment to be faithful to the original.
• Fixed character walking off screen.
• Fixed loading savegames in the Pendulum scene.
• Fixed wrong background for inventory items during chapter 6 in the Spanish version.
• Fixed animations speed (they were running two times slower than in the original engine).
• Fixed noise at start and/or end of speech. This was most noticeable with the Spanish speech.
• Fixed delay when interacting with the verb menu and the inventory.
• Fixed possibility to pick up the axe in the castle multiple times.

Gob:
• Fixed lock up for some games during sound initialization.

KYRA:
• Fixed potential crash when using swamp snake potion on the rat in Hand of Fate. (NOTE: This fix was included in version 1.8.0, but it was not added to the NEWS file).
• Fixed missing voice reactions when hitting enemies in CD version of Lands of Lore.

Lab:
• Fixed lock-up during ending sequence.
• Improved internal game controls.
• Fixed lock-up during some in-game animations.

SAGA:
• Fixed user interface colors in the French and German versions of I Have No Mouth and I Must Scream.

SCI:
• Make cursor workarounds work properly on OpenPandora (and other devices, that support touch screen and analog sticks/mouse at the same time)
• Script patch to fix broken ending battle in multilingual King’s Quest 5 (French, German + Spanish versions are all broken)
• Fixed invalid memory access, when loading broken King’s Quest 5 credit music track
• Fixed lowres/hires issues in King’s Quest 6 when saving, changing the lowres/hires setting and restoring the saved game afterwards.

SCUMM:
• Fixed detection of Maniac Mansion from Day of the Tentacle in the Windows version of ScummVM.
• Fixed a sound effect not stopping in Loom EGA with AdLib.

Broken Sword 2.5:
• Added option to use English speech instead of German one when no speech is available for the selected language.
• Fixed resource releasing on game exit.
• Fixed game restart after language change in-game.
• Fixed flickering in main Menu.
• Fixed long save time on Windows.
  Windows port:
  • Fixed bug in MIDI device listing affecting cases where MIDI devices were not usable.
  Mac OS X port:
  • Dock menu for ScummVM now lists recently played games when ScummVM is not running and allows starting those games.
  • Enabled Sparkle application updater.
  GCW0 port:
  • Improved support for built-in ScummVM documentation.

42.9 1.8.0 “Lost with Sherlock” (2016-03-04)

New Games:
• Added support for Rex Nebular and the Cosmic Gender Bender.
• Added support for Sfinx.
• Added support for Zork Nemesis: The Forbidden Lands.
• Added support for Zork: Grand Inquisitor.
• Added support for The Lost Files of Sherlock Holmes: The Case of the Serrated Scalpel.
• Added support for The Lost Files of Sherlock Holmes: The Case of the Rose Tattoo.
• Added support for Beavis and Butthead in Virtual Stupidity.
• Added support for Amazon: Guardians of Eden.
• Added support for Broken Sword 2.5: The Return of the Templars.
• Added support for The Labyrinth of Time.

New Ports:
• Added Raspberry Pi port.
• Added GCW0 port.

General:
• Updated Munt MT-32 emulation code to version 1.5.0.

SDL:
• Alt-x no longer quits ScummVM. Use Cmd-q/Ctrl-q/Ctrl-z instead; see README.
• On POSIX systems we now follow the XDG Base Directory Specification for placement of files for users. This effectively results in new locations for our configuration file, our log file, and our default savegame path. We still support our previous locations. As long as they are present, we continue to use them. Please refer to the README for the new locations. File locations on Mac OS X are not affected by this change.

3 Skulls of the Toltecs:
• Improved AdLib music support.

AGI:
• It is now possible to disable mouse support (except for Amiga versions and fanmade games, that require a mouse).

• Fixed PCjr sound volumes.

• Major rewrite of graphics subsystem.

• Support for Apple IIgs, Amiga + Atari ST transitions, fonts and mouse cursors. The Atari ST 8x8 system font is not included with ScummVM.

• Added ability to make for example a PC version look like an Apple IIgs version. This includes palette, cursor, transition and even font. Just set corresponding render mode.

• Fixed Apple IIgs game versions running too fast.

• Added support for automatic saving/restoring used by Mixed Up Mother Goose.

• Removed forced two second delay on room changes; replaced with heuristic.

• Fixed certain key bindings breaking after saving/reloading.

AGOS:
• Fixed arpeggio effect used in music of Amiga version of Elvira 1.

• Fixed loading and saving progress in the PC version of Waxworks.

• Fixed verb area been removed in Amiga versions of Simon the Sorcerer 1.

• Added Accolade AdLib & MT-32 music drivers for the games: Elvira 1, Elvira 2, Waxworks and Simon the Sorcerer 1 demo.

• Added Simon the Sorcerer 1 AdLib output. This vastly improves the AdLib output and makes it closer to the original.

Broken Sword 1:
• Fixed Macintosh version speech when running on big endian systems.

• Fixed loading from Main Menu in bull's head scene, and maybe other scenes.

CinE:
• Added support for music in CD version of Future Wars.

MADE:
• Improved AdLib music support in Return to Zork.
  SAGA:
  • Improved AdLib music support.
  SCI:
  • Handling of music priority has been greatly improved.
  • A lot of fixes for original game script bugs that also occurred when using the original interpreter. This affects the following games: KQ6 (Dual Mode), LSL5, PQ1, QfG1 (EGA), QfG1 (VGA), QfG2, QfG3, SQ1, SQ4 (CD).
  • Restoring from the ScummVM in-game menu should now work all the time.
  • Improved support for Japanese PC-9801 games.
  • Default to hi res version of KQ6, changeable using engine option.
  SCUMM:
  • Major improvements to Korean versions text rendering.
  • Implemented original Maniac Mansion v0-v1 walking code.
  • It is now possible to play Maniac Mansion from within Day of the Tentacle, with a few caveats. See README for details.
  • Alt-x can now be used to quit SCUMM games on all platforms.
  • Improved lip sync animation in later HE games.
  Tinsel:
  • Improved AdLib music support in Discworld 1.

42.10 1.7.0 “The Neverrelease” (2014-07-21)

New Games:
  • Added support for Chivalry is Not Dead.
  • Added support for Return to Ringworld.
  • Added support for The Neverhood.
  • Added support for Mortville Manor.
  • Added support for Voyeur.

General:
  • Updated Munt MT-32 emulation code to version 1.3.0.
  • Switched from our custom JPEG and PNG decoders to libjpeg(-turbo) and libpng, which are faster and can handle more images. (NOTE: The change to libpng was done in version 1.6.0, but it was not added to the NEWS file).
• Added generic OpenGL (ES) output (based on GSoC Task).
• The GUI can now be rendered in 32-bits.
• The build system has been changed to be more modular and easier to add new engines.

SDL:
• Added OpenGL graphics mode based on our generic OpenGL output. This allows for arbitrary output sizes. However, it does not support special filters like AdvMAME, HQ, etc.

AGOS:
• Added mouse wheel support for inventory and save game lists.
• Enabled verb name display in Simon the Sorcerer 2.
• Fixed the Feeble Files loyalty rating in the English 4CD version. (This was apparently a bug in the original game. It is currently unknown if other versions still have the same problem.)

Broken Sword 1:
• Added back support for MPEG-2 videos.

Broken Sword 2:
• Added back support for MPEG-2 videos.

CGE:
• Added an option to enable “Color Blind Mode” to the ScummVM GUI.

Gob:
• Improved video quality in Urban Runner.

Hopkins:
• Added an option to toggle “Gore Mode” from the ScummVM GUI.
• Fixed bug that could cause the music to stop prematurely.

Pegasus:
• Fixed several rare crashes and glitches.
• Fixed multiple bugs carried over from the original binary.

SCI:
• Added support for the more detailed RAVE lip syncing data in the Windows version of King’s Quest 6. Portraits should now be much more expressive when talking.
• Added support for simultaneous speech and subtitles in the CD versions of Laura Bow 2 and King’s Quest 6 (toggled either in-game with the new “Dual” audio state, or via the ScummVM audio options).
• Fixed music fading.
• Fixed several script bugs in Camelot, Crazy Nick’s, Hoyle 3, QFG1VGA, KQ5, KQ6, LB2, LSL2, LSL5, Pharkas, PQ1VGA, SQ4, SQ5.
• Improved the MIDI parser so that music event processing is done more properly.

SCUMM:
• Changed the saved game naming scheme of HE games to always contain the target name.
• Fixed having multiple coaches in Backyard Football.
• Improved AdLib support for Loom and Indiana Jones and the Last Crusade. This makes sound effects like, for example, the typewriter and waterfall in Indiana Jones and the Last Crusade sound like in the original.
• Added support for the Steam versions of Indiana Jones and the Last Crusade, Indiana Jones and the Fate of Atlantis, Loom and The Dig. Both the Windows and the MacIntosh versions are supported.

TONY:
• Savegames in Tony Tough now work on big-endian systems.

Tinsel:
• Discworld 1 and 2 no longer crash on big-endian systems.

Android port:
• Added experimental support for the OUYA console.

PS2 port:
• Added configurable TV modes: NTSC and PAL.
• Added configurable graphics modes: SDTV progressive, SDTV interlaced, EDTV progressive and VESA.
• Added a configuration option for the HDD partition used.
• Added a configuration option for the IP address used.
• Added a configuration option to toggle USB mass storage.

Tizen port:
• The BADA port has been merged/updated into Tizen.

42.11 1.6.0 “+4 to engines” (2013-05-31)

New Games:
• Added support for 3 Skulls of the Toltecs.
• Added support for Eye of the Beholder.
• Added support for Eye of the Beholder II: The Legend of Darkmoon.
• Added support for Hopkins FBI.
• Added support for Tony Tough and the Night of Roasted Moths.
• Added support for The Journeyman Project: Pegasus Prime.

• Added support for the Macintosh version of Discworld 1.

General:

• Added a new save/load chooser based on a grid of thumbnails. This is only supported for resolutions bigger than 640x400. The old chooser is still available and used for games without thumbnail support. It is possible to select the old one as default too.

• Rewrote VideoDecoder subsystem.

• Added Galician translation.

• Added Finnish translation.

• Added Belarusian translation.

• Using the mouse wheel on a slider widget now changes the value by the smallest possible amount. This is more predictable than the old behaviour, which was to change the value by “one pixel” which would sometimes not change it at all.

• Updated MT-32 emulation code to latest munt project snapshot.

• Added FluidSynth settings dialog, mainly for reverb and chorus settings.

• Fixed crash on certain Smacker movies.

Cine:

• Improved audio support for Amiga and AtariST versions of Future Wars. Now music fades out slowly instead of stopping immediately. Sound effects are now properly panned, when requested by the game.

CGE:

• Soltys contains a puzzle requiring the ALT key to be pressed while clicking on an object. This puzzle has been disabled on devices not using this key.

Dracula:

• Resolved multiple UI issues with the original save/load screen.

• Added advanced savegame functionality, including savegame timestamps and thumbnails and the ability to load and delete savegames from the launcher. It’s now possible to use the ScummVM save/load dialogs.

• The F7 key (previously unmapped) now always shows the ScummVM load screen. The F10 key displays either the original save/load screen, or the ScummVM save screen, if the user has selected to use the ScummVM save/load dialogs.

Dreamweb:

• Now that the game is freeware, there is a small extra help text showing the available commands in the in-game terminals when the player uses the ‘help’ command. Previously, players needed to consult the manual for the available commands. Since this reference to the manual is a form of copy protection, this extra line can be toggled by the ScummVM copy protection command line option.
Groovie:

- Simplified the movie speed options, and added a custom option for The 7th Guest. Movie options are now “normal” and “fast”, with the latter changing the movie speed in T7G to match the faster movie speed of the iOS version. The game entry might need to be readded in the launcher for the new setting to appear.

SAGA:

- Added music support for the Macintosh version of I Have No Mouth and, I Must Scream.

SCUMM:

- Implemented Monkey Island 2 Macintosh’s audio driver. Now we properly support its sample based audio output. The same output is also used for the m68k Macintosh version of Indiana Jones and the Fate of Atlantis.
- Improved music support for the Macintosh version of Monkey Island 1. It now uses the original instruments, rather than approximating them with General MIDI instruments, and should sound a lot closer to the original.
- Added sound and music support for the Macintosh version of Loom.
- Handle double-clicking in the Macintosh version of Loom.
- Major bugfixes in INSANE (the Full Throttle bike fights).

TOUCHE:

- Added support for Enhanced Music by James Woodcock (http://www.jameswoodcock.co.uk/category/scummvm-music-enhancement-project/).

42.12 1.5.0 “Picnic Basket” (2012-07-27)

New Games:

- Added support for Backyard Baseball 2003.
- Added support for Blue Force.
- Added support for Darby the Dragon.
- Added support for Dreamweb.
- Added support for Geisha.
- Added support for Gregory and the Hot Air Balloon.
- Added support for Magic Tales: Liam Finds a Story.
- Added support for Once Upon A Time: Little Red Riding Hood
- Added support for Sleeping Cub’s Test of Courage.
- Added support for Soltys.
• Added support for The Princess and the Crab.

General:
• Updated MT-32 emulation code to latest munt project snapshot. The emulation improved dramatically.
• Implemented support for TrueType fonts via FreeType2 in our GUI. Along with it GNU FreeFont was also added to our modern theme. Note that not all ports take advantage of this.
• Added Basque translation.
• Added custom game and engine options in the AGI, DREAMWEB, KYRA, QUEEN, SKY and SCI engines. It is now possible to toggle these options via the Engine tab when adding or editing a configuration for a game. In most cases, you will have to run each game once or readd them all in ScummVM's launcher in order to get the custom options tab.
• Improved predictive dialog look.
• Various GUI improvements.

Broken Sword 1:
• Fixed incorrect sound effects in the DOS/Windows demo.
• Added support for PlayStation videos.
• Fixed missing subtitles in the demo.

Broken Sword 2:
• Added support for PlayStation videos.

Cine:
• Implemented Roland MT-32 output driver.

Drascula:
• Added Spanish subtitles in the Von Braun cutscene (#5372: no subtitles in scene with “von Braun”).

Gob:
• Fixed a crash in Lost in Time
• Rewrote the AdLib player. Enabled the now working MDY player in Fascination and Geisha.

SCUMM:
• Added support for the Macintosh version of SPY Fox in Hold the Mustard.
• Added a difficulty selection dialog for Loom FM-TOWNS.
• Fixed graphical glitches in HE98 version of Pajama Sam’s Lost & Found.

iPhone port:
• Changed “F5 (menu)” gesture to open up the global main menu instead.
• Added support for custom cursor palettes, this makes the modern theme use the red pointer cursor for example.

• Added aspect ratio correction feature.

• Implemented 16 bits per pixel support for games.

Maemo port:

• Added support for Nokia 770 running OS2008 HE.

• Added configurable keymap.

Windows port:

• Changed default savegames location for Windows NT4/2000/XP/Vista/7. (The migration batch file can be used to copy savegames from the old default location, to the new default location).

42.13 1.4.1 “Subwoofer Release” (2012-01-27)

AGOS:

• Fixed loading videos directly from InstallShield cabinets in the Windows version of the The Feeble Files.

BASS:

• Added support for Enhanced Music by James Woodcock (http://www.jameswoodcock.co.uk/?p=7695).

Broken Sword 2:

• Slight graphics improvement for PSX version.

KYRA:

• Fixed bug in the original Lands of Lore GUI which made ScummVM error out in the case the user did not have a contiguous save slot usage.

• Add support for original DOS Lands of Lore save files (also applies to save files made with the GOG release).

SCI:

• Fixed race condition in SCI1.1 palette changes. This fixes an error in QFG1VGA, when sleeping at Erana’s place.

• The option to toggle sound effect types between digitized and synthesized has been disabled until a more user-friendly GUI option is possible. Digital sound effects are always preferred for now.

• Fixed a case where starting a new song didn’t fully reset its channels, thus some notes sounded wrong.
42.14 1.4.0 “10th Anniversary” (2011-11-11)

New Games:
• Added support for Lands of Lore: The Throne of Chaos.
• Added support for Blue’s Birthday Adventure.
• Added support for Ringworld: Revenge Of The Patriarch.
• Added support for the Amiga version of Conquests of the Longbow.

New Ports:
• Added PlayStation 3 port.

General:
• Fixed the ARM assembly routine for reverse stereo audio.
• Added support for building with MacPorts out of the box.

AGI:
• Implemented sound support for the DOS version of Winnie the Pooh in the Hundred Acre Wood.

AGOS:
• Implemented support for loading data directly from InstallShield cabinets in The Feeble Files and Simon the Sorcerer’s Puzzle Pack.
• Fixed loading and saving in the PC version of Waxworks.
• Fixed music in the PC versions of Elvira 1/2 and Waxworks.

Groovie:
• Added support for the iOS version of The 7th Guest.

Lure:
• Fixed crash when trying to talk and ask something at the same time.

SCI:
• Added better handling of digital vs. synthesized sound effects. If the “Mixed AdLib / MIDI mode” checkbox is checked, the engine will prefer digital sound effects, otherwise their synthesized counterparts will be preferred instead, if both versions of the same effect exist.

SCUMM:
• Implemented PC Speaker support for SCUMM v5 games.
• Fixed priority bug in iMuse. As a result the AdLib music should sound better, since important notes are not interrupted anymore.
• Implemented CMS support for Loom, The Secret of Monkey Island and Indiana Jones and the Last Crusade.
• Improved palette handling for the Amiga version of Indiana Jones and the Fate of Atlantis.

Broken Sword 1:
• Fix freeze in Windows demo.
• Fix crash when using cutscene subtitles pack with the Macintosh version.

Tinsel:
• Fixed deleting saved games from the list of saved games (from the launcher and the in-game ScummVM menu).
• The US version of Discworld II now shows the correct title screen and language flag.

Android port:
• Fixed plugins on Android 3.x.
• Moved the default saved game location to the SD card.

42.15 1.3.1 “All Your Pitches” (2011-07-12)

General:
• Improved audio device detection and fallback. There should be no more silent errors due to invalid audio devices. Instead ScummVM should pick up a suitable alternative device.

Mohawk:
• Added detection entries for more variants of some Living Books games.

Tinsel:
• Fixed a regression that made Discworld uncompletable.

SAGA:
• Fixed a regression in Inherit the Earth’s dragon walk code which was causing crashes there.
• Fixed a regression causing various crashes in I Have No Mouth and I Must Scream.

SCI:
• Added detection entries for some Macintosh game versions.
• Audio settings are now stored correctly for the CD version of EcoQuest 1.

SCUMM:
• Fixed graphics bug in FM-TOWNS versions of games on ARM devices (Android, iPhone, etc.).
42.16 1.3.0 “Runner” (2011-05-28)

New Games:
- Added support for Backyard Baseball.
- Added support for Urban Runner.
- Added support for Playtoons: Bambou le Sauveur de la Jungle.
- Added support for Toonstruck.
- Added support for Living Books v1 and v2 games.
- Added support for Amiga SCI games (except Conquests of the Longbow).
- Added support for Macintosh SCI1 games.

New Ports:
- Added WebOS port.

General:
- Added support for loadable modules on platforms without a dynamic loader (GSoC Task).
- Added Danish translation.
- Added Norwegian Bokmaal translation.
- Added Norwegian Nynorsk translation.
- Added Swedish translation.
- Added Debug Console to Cine, Draci, Gob, MADE, Sword1, Touche and Tucker Engines.
- Closed significant memory leaks. RTL should now be more usable.

AGOS:
- Closed memory leaks in Simon 2 and Feeble Files.

Cine:
- Corrected memory leaks and invalid memory accesses. Future Wars should be more stable.
- Made Operation Stealth completable, though significant graphical glitches remain so not official supported.

Drascula:
- Added German and French subtitles in the Von Braun cutscene (#5372: no subtitles in scene with “von Braun”).
- Improved French translation of the game.
• Added support for “Return To Launcher”.

  Gob:

  • Fixed “Goblin Stuck On Reload” bugs affecting Gobliiins.

  Kyra:

  • Closed memory leaks.

  Parallaction:

  • Corrected issue which could cause crash at engine exit.
  • Closed memory leaks in Nippon Safes Amiga.

  SCI:

  • Added a CMS music driver for SCI1 - SCI1.1 games.
  • Added an option to toggle undithering from the ScummVM GUI.
  • Added several previously missing parts of the game state in saved games, such as game played time, script created windows, the script string heap and information related to the text parser in old EGA games.
  • Added support for SCI1.1 magnifier cursors.
  • Added support for the keypad +/- keys.
  • Added support for the alternative General MIDI tracks in the Windows CD versions of Eco Quest, Jones in the Fast Lane, King’s Quest 5 and Space Quest 4.
  • Added support for the alternative Windows cursors in the Windows version of King’s Quest 6.
  • Added support for simultaneous speech and subtitles in the CD versions of Space Quest 4 and Freddy Pharkas.
  • Corrected resource loading leaks.
  • Corrected several problems and issues in the Skate-O-Rama rooms in Space Quest 4.
  • Corrected several issues in Hoyle Classic Card Games.
  • Fixed several graphical glitches (like, for example, parts of the screen that weren’t erased correctly under some rare circumstances).
  • Fixed several script bugs.
  • Fixed several pathfinding related issues and lockups (like, for example, a lockup in the shower scene of Laura bow 1 and pathfinding in some screens during the chase sequence in Laura Bow 2).
  • Fixed several music related glitches and possible lockups (like, for example, a rare music lockup that occurred when loading a saved game outside the palace in Quest for Glory 3).
  • Fixed possible problems and lockups in the character import screens of Quest for Glory 2 and 3.
- Fixed a bug that caused a lockup in the SCI1 CD version of Mixed Up Mother Goose, after Tommy Tucker's song.
- Fixed a script bug in the CD version of King’s Quest 5, which caused a lockup under certain circumstances when going outside the witch’s house in the dark forest.
- Function keys now work correctly when the num lock key is on.
- Improved support for fanmade game scripts.
- Improved support for non-English versions of games.
- Made several enhancements and fixes related to MT-32 music (e.g. reverb).
- Music is no longer out of tune when loading saved games.

**SCUMM:**
- Improved support for FM-TOWNS versions of games.

**Sky:**
- Fixed crashes on sequences for several ports (Android, OpenGL, ...).

**Teenagent:**
- Closed memory leaks.

**Tinsel:**
- Closed memory leaks in Coroutines.
- Added enhanced music support for the German CD “Neon Edition” re-release of Discworld 1.

**Touche:**
- Corrected memory leaks and minor issues.

**Tucker:**
- Added workarounds for several issues present in the original game.

**SDL ports:**
- Closed memory leaks in Mouse Surfaces.

**Android port:**
- Switched to the official NDK toolchain for building.
- Fixed GFX output for various devices.
- Fixed various crashes.
- Switched to the native screen resolution to improve text readability.
- Added support for pause/resume.
- Added support for games using 16bit graphics.
- Increased the performance significantly.
• Added support for the “Fullscreen mode” option. Unchecking this keeps the game’s aspect ratio.
• Added a new graphics mode for linear filtering.
• Overhauled the input system (see README.Android).
• Added a MIDI driver based on SONiVOX’s Embedded Audio Synthesis (EAS).

Nintendo DS port:
• Added support for loadable modules.

PSP port:
• Added support for loadable modules.
• Added image viewer.

PS2 port:
• Added support for loadable modules.

Wii/GameCube port:
• Added support for loadable modules.
• Fixed 16bit mouse cursors on HE games.

42.17 1.2.1 “Bork Bork Bork” (2010-12-19)

General:
• Added Hungarian translation.
• Added Brazilian Portuguese translation.

Cruise:
• Fixed a problem with Raoul appearing when examining the Book.

Groovie:
• Fixed a regression that made the Russian version of T7G crash.

Lure:
• Fixed several NPC movement bugs.
42.18 1.2.0 "FaSCInating release" (2010-10-15)

New Games:

• Added support for Fascination.

New Games (Sierra SCI0 - SCI1.1):

• Added support for Castle of Dr. Brain (EGA and VGA).
• Added support for Codename: ICEMAN.
• Added support for Conquests of Camelot.
• Added support for Conquests of the Longbow (EGA and VGA).
• Added support for EcoQuest: The Search for Cetus.
• Added support for EcoQuest 2: Lost Secret of the Rainforest.
• Added support for Freddy Pharkas: Frontier Pharmacist.
• Added support for Hoyle's Book of Games 1.
• Added support for Hoyle's Book of Games 2.
• Added support for Hoyle's Book of Games 3 (EGA and VGA).
• Added support for Hoyle Classic Card Games.
• Added support for Jones in the Fast Lane.
• Added support for King's Quest I (SCI remake).
• Added support for King's Quest IV (SCI version).
• Added support for King's Quest V (EGA and VGA).
• Added support for King's Quest VI (low and hi res).
• Added support for Laura Bow: The Colonel's Bequest.
• Added support for Laura Bow 2: The Dagger of Amon Ra.
• Added support for Leisure Suit Larry 1 (SCI remake) (EGA and VGA).
• Added support for Leisure Suit Larry 2.
• Added support for Leisure Suit Larry 3.
• Added support for Leisure Suit Larry 5 (EGA and VGA).
• Added support for Leisure Suit Larry 6 (low res).
• Added support for Mixed-up Fairy Tales.
• Added support for Mixed-up Mother Goose.
• Added support for Pepper's Adventures in Time.
• Added support for Police Quest I (SCI remake).
• Added support for Police Quest II.
• Added support for Police Quest III (EGA and VGA).
• Added support for Quest for Glory I/Herō’s Quest.
• Added support for Quest for Glory I VGA remake.
• Added support for Quest for Glory II.
• Added support for Quest for Glory III.
• Added support for Slater & Charlie go camping.
• Added support for Space Quest I (SCI remake) (EGA and VGA).
• Added support for Space Quest III.
• Added support for Space Quest IV (EGA and VGA).
• Added support for Space Quest V.
• Added support for The Island of Dr. Brain.

New Ports:
• Added Android port.
• Added Dingux port.
• Added Caanoo port (based on the GP2XWiz port).
• Added OpenPandora port.

General:
• Removed the outdated PalmOS port.
• Switched to the “fast” DOSBox OPL emulator.
• Fixed a crash in the rjp1 player code affecting the FOTAQ Amiga version.
• Added support for more original media layouts.
• Added support for GUI localization.
• Improved GUI by adding tooltips and radiobuttons.
• Improved GUI usability by hiding more irrelevant options not supported by specific games.

AGI:
• Fixed number of GFX glitches.
• Made PIC drawing code picture perfect.

• Added support of MIDI devices.
• Added support for accurate Tandy sound emulation. Switched to it as default.

Broken Sword 2:
• Fixed missing speech in some cutscenes.
• Fixed a memory leak that would eventually cause the game to hang. (#4828 - BS2: Game lockup in British Museum)

Drascula:
• Fixed number of GFX glitches.
• Made many cutscenes smoother.
• Changed behavior of items menu. Now it shows up on mouse up.

Groovie:
• Added support for the Macintosh version of The 7th Guest.
• Added support for custom MT-32 instruments.

KYRA:
• Fixed some minor graphical glitches.
• Implemented formerly missing recreation of some in game items.
• Added support for playing Kyrandia 3 with the original CD file layout.

LURE:
• Fixed bug where Goewin could get stuck in the Weregate.
• Fixed issue with Ratpouch repeatedly moving between two rooms.
• Fix for Goewin losing her schedule after Were-cave.
• Fix for player getting stuck in sewer exit room.

Parallaction:
• Made part one of The Big Red Adventure completable.

SAGA:
• Fixed graphics glitches in several scenes.

SCUMM:
• Several improvements in Maniac Mansion NES.

PSP port:
• New backend design: fixed minor graphical issues and enabled 16-bit support.
• Enabled playback of MP3 files using the Media Engine. This means that the port is optimized for MP3 files (as opposed to OGG).
• Many optimizations. Everything should run faster.

Wii port:
• Added support for USB2 mass storage devices (requires The Homebrew Channel = v1.0.8 with IOS58).

GameCube port:
• Added support for DVDs with the ISO9660 file system.

GP2X port:
• Added support for dynamic engine plugins (experimental).
• Reworked control system and better touchscreen support.

GP2XWiz/Caanoo port:
• Improved downscale code to minimise ‘tearing’ corruption.
• Reworked control system and better touchscreen support.
• Renamed backend from GP2XWIZ to GPH to better reflect the supported devices.

42.19 1.1.1 “Better version” (2010-05-02)

New Ports:
• Added Nintendo 64 port. (Actually added in 1.1.0, but forgot to mention it. oops)

General:
• Fixed several minor bugs here and there.

Drascula:
• Fixed regression that caused some texts to always be in English, even when using another language. (#4819 - DRASCULA: missing german translation)

KYRA:
• Fixed a bug which caused the DOS versions to crash before the credits when AdLib music is selected.

LURE:
• Fixed several memory leaks.
• Corrected problems in the handling of followers when blocked from performing actions by closed doors between rooms.
• Solved issues with Goewin not always correctly following the player out of the caves.

Tinsel:
• Fix video playback regression in Discworld 2.

Parallaction:
• Fix several crashes and other regressions in Nippon Safes, including bugs 2969211, 2969232, 2969234, 2969257, 2970141.

Wii/GameCube port: (Also forgot to mention in 1.1.0)
• Added support for games using 16bit graphics.
• Complete GFX overhaul (new video modes, better performance, picture smoothing, fine grained overscan settings).
• Added a new options dialog for Wii/Gamecube specific settings.
• Fixed a GFX glitch on savegame thumbnails.
• Added support for SMB mountpoints (Samba/Windows shares).
• Added an on-screen console, which is shown when ScummVM exits abnormally.
• Fixed a couple of crashes when using Ogg/Vorbis encoded sound files. See the bundled README.txt file for more information.

PSP port: (Also forgot to mention in 1.1.0)
• Added plugin support which allows the PSP Phat to run every game.
• Added a new virtual keyboard optimized for rapid D-Pad input.

42.20 1.1.0 “Beta quadrant” (2010-04-04)

New Games:
• Added support for Blue’s Art Time Activities.
• Added support for Blue’s Reading Time Activities.
• Added support for Freddi Fish 5: The Case of the Creature of Coral Cove.
• Added support for Pajama Sam: Games to Play on Any Day.
• Added support for SPY Fox 3: Operation Ozone.
• Added support for Dragon History.
• Added support for TeenAgent.

General:
• Added support for a custom SJIS font for FM-TOWNS and PC98 games.
• Added support for 16bit graphics. (GSoC Task)
• Removed QuickTime MIDI backend on Mac OS X; it was buggy and did not compile on modern systems.

CinE:
• Added support for Amiga style menus for Amiga versions of Future Wars.

KYRA:
• Added support for the Amiga version of The Legend of Kyrandia. (sound support was done as a GSoC Task)
• Adapted KYRA to support the custom SJIS font.

SCUMM:
• Added support for the PC-Engine version of Loom.
• Added support for music and sound effects in the Amiga version of The Secret of Monkey Island. (GSoC Task)
• Fixed some other bugs related to game versions for the Amiga.
• Added support for original save/load dialog in MM NES.
• Added support for savepoint passcodes for Sega CD MI1 via debugger command ‘passcode’.
• Added support for Kanji rendering in Japanese version of Monkey Island Sega CD.

42.21 1.0.0 “Shiny Logo” (2009-11-15)

New Ports:
• Added MotoEZX and MotoMAGX ports.

General:
• Fixed several bugs in GUI.
• Updated the project logo and icons.
• Clarified licenses for several PS2 port files.

AGI:
• Fixed crash on game exit.
• Fixed crash at detection of some games.

AGOS:
• Fixed load/save code for PC version of Waxworks.
• Fixed undo in Puzzle Pack games.

Broken Sword 1:
• Fixed missing background sound effects in some rooms.

CinE:
• Fixed crashes with Future Wars and Operation Stealth demos.

Cruise:
• Fix freeze on game pause.

Gob:
• Fixed gfx glitch in Lost in Time.
• Fixed hotspot-related regressions in Gob2.
• Fixed several regressions in Gob3.
• Fixed crash in Bargon Attack intro.
• Fixed animations in Win3.1 version of Gob3.
  
  Groovie:
  • Fixed video performance on PSP.
  • Fixed menu blanking in some instances.
  
  Kyra:
  • Fix possible corruption of restart game save in Kyrandia 1.
  • Fix GFX glitch at the broken bridge.
  • Fix for brandon turning invisible in some situations in Kyrandia 1.
  
  MADE:
  • Fixed performance on NDS.
  • Fixed crash in Return to Zork demo.
  
  Parallaxation:
  • Fixed several regressions in Nippon Safes.
  • Fixed music in sushi bar in Nippon Safes.
  
  SCUMM:
  • Fixed crash on Macintosh versions of Putt-Putt Joins the Parade and Fatty Bear’s Birthday Surprise.
  • Fixed game save in Macintosh versions of HE games.
  • Fixed default save game path in later HE games.
  • Fixed palette in NES version of Maniac Mansion.
  • Fixed palette in Amiga version of Secret of Monkey Island.
  • Fixed cutscenes not stopping music after pressing ESC in DIG.
  • Fixed lip-sync in Fatty Bear.
  • Fixed crash in FT when entering inventory.
  
  Tinsel:
  • Fixed crash in palace.
  • Fixed crash when talking to the old lady.
  • Fixed partially off-screen text in DW1.
  
  NDS port:
  • Added mouse pad undeneath onscreen keyboard.
  • Added ability to scroll when cursor reaches edge of screen (in mouse pad mode).
  • Made cd audio read from track01.wav as well as track1.wav.
• Fixed bug with switching modes with keyboard active.

PSP port:

• Fixed video flickering and stretching in some situations.
• Improved suspend/resume support.

WinCE port:

• Improved compatibility with VGA devices.

42.22 1.0.0rc1 “Grog XD” (2009-08-31)

New Games:

• Added support for Discworld.
• Added support for Discworld 2 - Missing Presumed . . . !?
• Added support for Return to Zork.
• Added support for Leather Goddesses of Phobos 2.
• Added support for The Manhole.
• Added support for Rodney’s Funscreen.
• Added support for Cruise for a Corpse.

General:

• Added experimental AdLib emulator from DOSBox.
• Added quick search to Launcher.
• Improved modern GUI theme look.
• Added per-game GUI options.
• Improved Mass Add dialog.

New Ports:

• Added GP2X Wiz port.

AGI:

• Increased compatibility for Sierra games.
• Implemented all ‘unknown’ commands.

Beneath a Steel Sky:

• Changed the game speed to match the original game (previously it ran too fast).

Broken Sword 1:

• Added support for the original cutscenes.
• Dropped support for the now obsolete MPEG2 cutscenes.
• Added support for the PlayStation version.

Broken Sword 2:
• Added support for the original cutscenes.
• Dropped support for the now obsolete MPEG2 cutscenes.
• Dropped support for playing cutscene sound without the video.
• Added support for the PlayStation version.

Gob:
• Introduced a new savegame format to fix a fatal flaw of the old one, breaking compatibility with old savegames made on big-endian systems.

Groovie:
• Increased microscope puzzle difficulty to match original.

KYRA:
• Added support for PC Speaker based music and sound effects.
• Added support for 16 color dithering in Kyrandia PC-9801.

PSP port:
• Added support for sleep mode (suspend/resume).

WinCE port:
• Speed optimized versions of low-res Smartphone and 2x scalers.
• New aspect correction scaler for VGA (or higher) devices.
• Dropped support for MPEG-2 and FLAC.

42.23 0.13.1 “SAGA returns” (2009-04-27)

AGOS:
• Fixed crash after OmniTV video is played in The Feeble Files.
• Fixed crashes when exploring Jack the Ripper scene in the PC version of the Waxworks.
• Fixed palette glitches in the AtariST version of Elvira 2.
• Fixed noise that can occur when sound effects are played, when exploring Pyramid scene in the Waxworks.

Gob:
• Fixed a crash in the Italian version of Woodruff.

Groovie:
• Fixed some issues with music in The 7th Guest.
  Parallaction:
• Fixed the sarcophagus puzzle in Nippon Safes.
  SAGA:
• Fixed a crash in Inherit the Earth.
• Fixed glitches in the save/load dialog.
  Sword2:
• Fixed random sound corruption when using the original sound files.
  Game launcher:
• Fixed a case where memory could be corrupted.
• Fixed the small cursor in the modern theme.
• Fixed a bug in the theme engine, which could cause crashes.
• Made the file browser bigger in 1x mode.
  iPhone port:
• Fixed backspace handling on the iPhone soft keyboard.
  DS port:
• Added support for the Global Main Menu feature.
  PS2 port:
• Switched to the new GUI and theme code.
• All possible devices are supported to store, play and save games (CD, HD, USB, MC and remote).
• Optimized cache/read-ahead for every media.
• Added support for the Return to Launcher feature.
  Symbian port:
• Added Bluetooth mouse support.
• Added support for the Return to Launcher feature.
  WinCE port:
• Fixed an issue which could cause random crashes with VGA devices.
42.24 0.13.0 “More Guests” (2009-02-28)

General:
• Added MIDI driver for Atari ST / FreeMint.
• Added a 'Load' button to the Launcher (not supported by all engines). (GSoC Task)
• Added a new global main menu (GMM) dialog usable from all engines. (GSoC Task)
• Added the ability to return to the launcher from running games (via the GMM). (GSoC Task)
• Rewrote GUI renderer to use an vector based approach. (GSoC Task)
• Rewrote GUI configuration to use XML. (GSoC Task)

New Games:
• Added support for Blue's 123 Time Activities.
• Added support for Blue's ABC Time Activities.
• Added support for Bud Tucker in Double Trouble.
• Added support for The 7th Guest.

AGOS:
• Added support for the original cutscenes of The Feeble Files.
• Added support for text compression in the AtariST version of Elvira 1.
• Fixed combining items in Waxworks.
• Fixed display of spell descriptions in Elvira 2.

KYRA:
• Added support for Auto-save feature.

Parallaction:
• Credits of the Nippon Safes Amiga demo are now shown correctly.

SCUMM:
• Implemented radio-chatter effect in The DIG.
42.25 0.12.0 “&nbsp;” (2008-08-31)

New Games:
• Added support for The Legend of Kyrandia: Book Two: Hand of Fate.
• Added support for The Legend of Kyrandia: Book Three: Malcolm’s Revenge.
• Added support for Lost in Time.
• Added support for The Bizarre Adventures of Woodruff and the Schnibble.
• Added support for the PC version of Waxworks.
• Added support for the Macintosh version of I Have no Mouth, and I must Scream.
• Added support for Dracula: The Vampire Strikes Back.

General:
• Added CAMD MIDI driver for AmigaOS4.
• Revived the PS2 port (was already in 0.11.1 but was forgotten in the release notes).
• Plugged numerous memory leaks in all engines (part of GSoC’08 task).
• Added audio double buffering to the SDL backend, which fixes the problems with the MT-32 emulator on Mac OS X (for now only enabled on Mac OS X).

AGOS:
• Fixed crashes during certain music in Amiga versions of Elvira 1 and Simon the Sorcerer 1.
• Fixed palette issues in Amiga versions of Simon the Sorcerer 1.

Queen:
• Speech is played at the correct sample rate. (It used to be pitched a bit too low.)

SCUMM:
• Rewrote parts of Digital iMUSE, fixing some bugs.
• Rewrote the internal timer code, fixing some speed issues in e.g. COMI.
• Improved support for sound effects in Amiga version of Zak McKracken.
• Added support for mixed AdLib/MIDI mode in Monkey Island 1 (Floppy).
42.26 0.11.1 “Fixed exist()nce” (2008-02-29)

SCUMM:

• Improvements for Digital iMUSE subsystem. This fixes several glitches in The Curse of Monkey Island.
• Fixes for cursors in HE games.

AGI:

• Fix for zombies in King’s Quest 4.
• Fix for changing palettes in fanmade games using AGIPAL.

Lure:

• Fixed some conversation crashes in the German version.
• Fixed operation of the optional copy protection dialog in the German version.
• Added saving of conversation flags as to whether a particular conversation option had been previously selected or not.
• Fixed glitch that could cause transformation sparkle to happen a second time.
• Fixed behavior of Goewin when you rejoin her after meeting the dragon.

SAGA:

• Fix for rat maze bug in Inherit the Earth which made game not completable.
• Fixes for Inherit the Earth and I Have no Mouth game startup on a number of platforms.
• Reduced the number of simultaneous open files in I Have no Mouth, to allow it to run on platforms that can keep a limited amount of files open (e.g. on the PSP).
• Fixed graphics glitch in Inherit the Earth with simultaneous speech.
• Fixed palette glitch in Inherit the Earth when looking at the map while at the docks.

42.27 0.11.0 “Your Palindrome” (2008-01-15)

New Games:

• Added support for Elvira: Mistress of the Dark.
• Added support for Elvira 2: The Jaws of Cerberus.
• Added support for I Have no Mouth, and I Must Scream (demo and full game).
• Added support for preAGI game Mickey’s Space Adventure.
• Added support for preAGI game Troll’s Tale.
• Added support for preAGI game Winnie the Pooh in the Hundred Acre Wood.
• Added support for Amiga version of Waxworks.
• Added support for Lure of the Temptress.

New Ports:
• Added iPhone port.
• Added Maemo port for Nokia Internet tablets.

General:
• Added ARM assembly routines for code in the sound mixer and SCUMM video playback, resulting in some nice speedups on several ports.
• Improved the way keyboard input is handled internally, resolving some odd quirks in some game / port combinations.
• Added optional ‘confirm exit’ dialog to the SDL backend.
• Added support for TiMidity++ MIDI server.
• Added DMedia MIDI driver for IRIX.
• Improved detection of new game variants and localized versions.
• Completely reworked internal access to files. (GSoC Task)
• Added option to delete games from the list with Del key.
• Added support for “~” prefix being substituted by $HOME in paths on POSIX systems (Linux, Mac OS X etc.).

AGI:
• Added support for AGI256 and AGI256-2 hacks. (GSoC Task)
• Added support for Amiga menus and palettes. (GSoC Task)
• Better support for early Sierra AGI titles.

AGOS:
• Fixed crashes related to OmniTV playback in The Feeble Files.
• Improved work on 64-bit systems.

Broken Sword 1:
• Added support for FLAC encoded music.

Kyrandia:
• Added support for Macintosh version.

Parallaction:
• Added support for Amiga version of Nippon Safes, Inc.
• Many bugfixes.

Queen:
• Added support for AdLib music.
• Added missing music patterns playback in Amiga version.

SCUMM:
• Added subtitle skipping (via ‘.’ key) in older games which didn’t have this feature so far (e.g. Zak, MM, Indy3, Loom).
• Added support for Chinese COMI.
• Better support for eastern versions of games.
• Various fixes for COMI and other games.
• Added support for original save menus (browse only). Use Alt-F5 to activate.
• Added support for Spanish version of NES Maniac Mansion.
• Better support for German version of C64 Maniac Mansion.
• Fixed bug with cursors in Windows versions of Humongous Entertainment games.

SAGA:
• Added support for compressed sound effects, voices and music.

Touche:
• Added workarounds for some glitches/issues present in the original game.

WinCE Port:
• Switched compilers again. Now using cegcc (http://cegcc.sourceforge.net/).
• Plugins now supported for WinCE (but not used in this release).
• Redesigned ‘Free Look’ action, mainly for the lure engine’s requirements.
• Smaller optimization setting to counteract the growth of the executable.
• Various bug fixes.

GP2X Port:
• Support F200 Touchscreen.
• Various fixes to input code.

42.28 0.X.0 “Tic-tac-toe edition” (2007-06-20)

New Games:
• Added Cinematique evo 1 engine. Currently only Future Wars is supported.
• Added Touche: The Adventures of the Fifth Musketeer engine.
• Added support for Gobliins 2.
• Added support for Simon the Sorcerer’s Puzzle Pack.
• Added support for Ween: The Prophecy.
• Added support for Bargon Attack.
• Added Sierra AGI engine.
• Added support for Goblins 3.
• Added Parallaction engine. Currently only Nippon Safes Inc. is supported.

General:
• Added dialog which allows the user to select the GUI theme on runtime.
• Added ‘Mass Add’ feature to the Launcher, which allows you to scan for all games in all subdirectories of a given directory (to use it, press shift then click on “Add Game”).
• Improved the way the auto detector generates target names, it now takes a game’s variant, language and platform into account.
• Improved compression for DXA movies.
• Keyboard repeat is now handled in a centralized way, rather than on a case-by-case basis. (Simply put, all engines now have keyboard repeat.)

Broken Sword 1:
• Added support for DXA cutscenes.
• Added support for Macintosh version.

Broken Sword 2:
• Added support for DXA cutscenes.
• Added “fast mode” (use Ctrl-f to toggle).

Queen:
• Added support for Amiga versions.
• Fixed some sound glitches.

SCUMM:
• Added support for non-interactive demos of HE games (CUP).
• Improved A/V syncing in SMUSH videos (affects Dig, FT, COMI).
• Improved speed of the NES sound code.
• Fixed many (sometimes serious) actor walking issues, specifically in Zak McKracken and Maniac Mansion, by rewriting the walking code for these games.
• Fixed several other issues.
• Added support for DXA movies playback in HE games.

Simon:
• Renamed Simon engine to AGOS.

Kyrandia:
• Added support for FM-TOWNS version (both English and Japanese).

BASS:
• Fixed long-standing font bug. We were using the control panel font for LINC space and terminals, and the LINC font in the control panel. This caused many character glitches (some of which we used to work around) in LINC space and terminals, particularly in non-English languages.

Nintendo DS Port:
• New engines supported: AGI, CINE, and SAGA.
• Option to show the mouse cursor.
• Word completion on keyboard for AGI games.
• Plenty of optimisations.

Symbian Port:
• Added support for MP3 to S60v3 and UIQ3 versions.
• Switched to SDL 1.2.11 for bug fixes and improvements.
• Improved performance for S60v3 and UIQ3 using ARM target.
• Limited support for pre Symbian OS9 devices due to compiler issues.
• Updated key mapping handling.

WinCE Port:
• Switched to using a GCC toolchain for building.
• Major update to the SDL lib. Better, faster, more compatible. :-) The included fixes are too numerous to mention here. Most of the updates in this version have concentrated on infrastructure. This leads to faster execution, greatly increased compatibility and OS friendliness - especially for keyboard/mouse input and display handling (f.ex. no more popups during gameplay).

Windows Port:
• The default location of the config file changed, to support multi-user systems.

PalmOS Port:
• Now using PalmOS Porting SDK which enables use of the C standard library.
New Ports:
- Added Nintendo DS port.
- Added GP2X port.
- Added GP32 port.

General:
- Fixed potential garbage and/or crash in debug console.
- Removed restriction on 27 games per game id when added via launcher.

SCUMM:
- Improved support for international versions of HE games.
- Fixed rare actor drawing glitches.
- Fixed path finding during smart star challenge in Big Thinkers 1st Grade.
- Fixed graphical glitches in stomach location of Pajama Sam 3.
- Fixed graphical glitches in HE80 version of Putt-Putt Travels Through Time.
- Fixed FM-TOWNS version of Indy3 failing on Amiga port.
- Fixed crash in MM NES when clicking on top screen area.
- Now it is possible to turn on or off subtitles during SMUSH movies.

Simon:
- Improved support for international versions of the Feeble Files.
- Fixed undefined behaviour when loading music.
- Fixed crash when displaying some subtitles in the Feeble Files.
- Fixed crackling sound in Mac version of Feeble Files.

BASS:
- Fixed character spacing in LINC terminals in floppy version v0.0303.
- Fixed a regression which caused incorrect AdLib music emulation.

Broken Sword 1:
- Fixed speech-related crashes.

Broken Sword 2:
- More robust handling of the optional startup.inf file.

Kyrandia:
- Scrolling in the Kyrandia intro is less CPU intensive, at the cost of not being as smooth as before.
• Fixed a tiny graphics glitch in the Kyrandia intro.
• Improved screen update handling, speeds up drawing on small devices.
• Improved resource loading, faster startup.

PSP Port:
• Fixed crashes during scrolling scenes in certain SCUMM games.
• Added saving of thumbnail in SCUMM savegames.

PS2 Port:
• Overlay uses higher resolution now.
• Can boot from USB, HDD etc. as well.

WinCE Port:
• Several bugfixes.
• Re-add support for 2002 based devices.

42.30 0.9.0 “The OmniBrain loves you” (2006-06-25)

New Games:
• Added kyra engine (for the Kyrandia series). Currently only the first part of the series is supported.
• Added support for The Feeble Files.

General:
• Switched from CVS to Subversion.
• Restructured our source tree partially.
• Fixed a bug that prevented you from overriding the scaler from the command line for 640x480 games.
• Added subtitle configuration controls to the Launcher options dialogs.
• GUI was completely redesigned and is now themeable.

SCUMM:
• Rewrote the detection code, for improved accuracy and better support of fan translations. It should now work much better on games with unknown MD5.
• Added subtitle configuration controls to the options dialog.
• Fixed graphical glitches in several HE games.
• Fixed palette glitches in Big Thinkers 1st Grade.
• Fixed songs in the kitchen of Pajama Sam 1.

SAGA:
• Fixed sound distortion in the Inherit the Earth demo.

Simon:
• Improved Hebrew support.
• Lots of long-overdue cleanups and re-structuring were made to accomodate for The Feeble Files.
• Fixed a rare MIDI bug that would cause a channel to change volume without adjusting it to the master volume.
• Fixed delay after introduction of Simon the Sorcerer 1 demo (with speech).
• Fixed music tempo in DOS versions of Simon the Sorcerer 1.

Broken Sword 1:
• Added support for the –save-slot option.

Broken Sword 2:
• Major rewrite of how game resources are accessed in memory. This should fix alignment issues reported on some platforms.
• Missing data files are handled more gracefully.

WinCE Port:
• Added: PocketPC: Vertical oversampling scaler 320x200 => 320x240 when panel not shown. (n0p)
• Added: PocketPC: Right click by double-tapping. (n0p)
• Fixed: All: Clipping issues in some cases.
• Added: PocketPC: Mouse emulation using keys.
• Added: Smartphones: Virtual keyboard popup.
• Fixed: Smartphones: Incorrect screen blit in SDL port.
• Added: All: Mouse cursor visible on panel if using emulated mouse.
• Added: All: Inverse landscape mode.
• Fixed: PocketPC: Dialogs cut-off/not redrawn.
42.31 0.8.2 “Broken Broken Sword 2” (2006-02-08)

General:
• Fixed OS X bundle building when using GCC 3.3.

SCUMM:
• Added support for rotating and scaling of sprites in HE games.

Sword2:
• Fixed last-minute crash when playing sound effects.

WinCE Port:
• Should fix weird crashes with DOTT stamp and in FOA. (#2439 #2430)
• Fixed Monkey Island blocking keyboard panel on Smartphones. (thks Knakos)
• Fixed QVGA Smartphone detection (mean it this time :p).
• Fixed Smartphone double right click issue.

42.32 0.8.1 “Codename: missing” (2006-01-31)

General:
• Fixed compiling with GCC 2.95.
• Fixed LaTeX documentation.
• Switched to new improved logo which matches new site design.
• More descriptive game titles in all engines.
• Fixed crash when trying to apply aspect-ratio correction to games that cannot use it.
• Fixed potential security vulnerability with oversized PATH environment variables.
• Lowered the default gain for the FluidSynth music driver and made it configurable.

SCUMM:
• Scrolling fixes in COMI, so it is less CPU-hungry.
• Added support for Maniac Mansion NES German version.
• Fixed mouse button states in COMI.
• Fixed overflow when using control panel for robot in the Dig.
• Added support for sound code, used by songs in HE games.
• Improved shadows in later HE games.
• Fixed subtitles glitches in HE games.
• Improved music/sound for HE games.
• Improved support for international versions of HE games.
• Improved support for Macintosh versions of games.
• Fixed several minor bugs.

BASS:
• Fix crash when speed/volume sliders are clicked and then dragged out of the scummvm window.

Gob:
• Fixed disappearing cursor when level password is typed in.
• Warn user if he tries to run CD version directly from CD under Windows.

Queen:
• Fixed charset for Spanish version.

SAGA:
• Fixed digital music playback under BE systems.

Simon:
• Implemented more precise MD5-based game detection.
• Added Polish support for Simon the Sorcerer 2.
• Fixed fades during ride to goblins camp in Simon the Sorcerer 2.
• Fixed palette delay at the end of Simon the Sorcerer 1.
• Fixed sound looping in Windows version of Simon the Sorcerer 2.

Sword1:
• Fixed a bug where looping sounds would keep playing during cutscenes or when displaying any form of control panel dialog.
• The save game dialog would erroneously claim an I/O error occurred if the savegame list had unused slots, and savegames were compressed.
• Fixed a scrolling bug which caused the finale sequence to be displayed incorrectly.

Sword2:
• Fixes and cleanups to the end credits. The German credits work now.
• Fixed missing speech/music in the second half of the game, reported to happen in some versions of the game.

PS2 Port:
• Completely reworked and now really goes official.

PSP Port:
• Fixed a bug that caused Broken Sword 1, and games that use ripped CDDA tracks (most notably the CD version of Monkey Island 1), to stop functioning properly after a while.

WinCE Port:
• Check backends/wince/README-WinCE for the latest news.
• Fixed disappearing panel when opening a list widget in GUI.
• Knakos patches (QVGA smartphones fix, easier key binding and panel switching).

42.33 0.8.0 (2005-10-30)

New Games:
• Added SAGA engine (for the games “I Have No Mouth and I Must Scream” and “Inherit the Earth”).
• Added Gob engine (for the Goblins series). Currently, only the first of the Goblins games is supported.

New Ports:
• Added PlayStation 2 port.
• Added PlayStation Portable (PSP) port.
• Added AmigaOS 4 port.
• Added EPOC/SymbianOS port.
• Added fixes for OS/2 port.

General:
• Reworked cursor handling in SDL backend. Now cursors can have their own palette and scaling. This is used by Humongous Entertainment games now.
• Added FluidSynth MIDI driver.
• Added GUI for the “soundfont” setting. (Currently only used by the CoreAudio and FluidSynth MIDI drivers.)
• The MPEG player could hang if the sound ended prematurely.
• Improved autoscaling GUI, which takes full advantage of your screen.
• Fixes for GCC 4.

SCUMM:
• Added support for Mac Humongous Entertainment titles.
• Added support for multiple filenames/versions using a single target.
• Implemented CGA and Hercules render modes in early LEC titles.
• Added dialogs which are shown when you modify the talkspeed or music volume using hotkeys.
• Added support for NES version of Maniac Mansion.
• Added thumbnail support for savegames.
• Broke compatibility with HE savegame (HE v71 and upwards only).
• Added possibility to disable building of HE and SCUMM v7 & v8 games support.
• Fixed the last few known music glitches in Sam & Max. (There are still some - probably - minor missing features though.)
• Added support for Commodore64 version of Zak McKracken.
• Eliminated all demos targets and platform-specific targets. Config file is autoupdated.

  Sword2:
  • Made the resource manager expire resources more intelligently.
  • Improved performance when playing the game from CD instead of hard disk.
  • Simplified sound effects handling. Again.
  • Code cleanups and restructuring.
  • Fixed long-standing bug in decompressing sounds from the speech/music CLU files. It was generating one sample too many, which could be heard as a very slight popping noise at the end of some sounds. Files that have been compressed with older versions of compress_sword2 will, of course, still have the same error. You may want to regenerate them.

**42.34 0.7.1 (2005-03-27)**

  General:
  • Added a MT-32 emulator. (It was actually added in 0.7.0 but we forgot to put it into the NEWS file :-).  
  • Less memory-hungry MPEG movie playback for the Broken Sword games.

  SCUMM:
  • Fixed wrong actor animation in Full Throttle INSANE.
  
  Windows Mobile port (PocketPC / Smartphone):
  • Fixed FOTAQ crash on all platforms when leaving the hotel AGAIN.
  • Better low quality AdLib emulation for FOTAQ.
  • Fix randomly broken Hide Toolbar option. (thanks iKi)
  • Fix first hardware key mapping (was not displayed before).
  • Fix BASS & Simon hangs on Smartphone when using the Skip hotkey.
• Fix Zone key action on Smartphone (now mapped on key 9).
• Experimental third party VGA mode (SE-VGA) fix.
• Add Key Mapping option in the launcher (Options / Misc / Keys).
• Remove AYGSHELL.DLL dependency to work on CE .Net platforms.
• Fix key mapping issues introduced in 0.7.0.
• Full Throttle interactive action sequences should be more playable.
• New key mapping option “FT Cheat” to win a Full Throttle action sequence.
• Quit Simon game with 'Action key' on Smartphones.

Sword2:
• Fixed crash caused by attempting to play music from CD1 and CD2 at the same time.
• Fixed crash in the cutscene player if the speech file was missing.

BASS:
• Fixed crash when talking to the gardener using spanish text with the floppy version.

42.35 0.7.0 (2004-12-24)

New Games:
• Added 26 Humongous Entertainment titles, only a few are completable.

General:
• Added support for FLAC (lossless) encoded audio files.
• Added an ‘On Screen Display’ to the SDL backend.
• Partially rewrote the backend API.
• Comments and the order of section in config files are preserved now.
• Updated AdvMame scalers based on scale2x 2.0 - AdvMame3x looks nicer now, and AdvMame2x is MMX accelerated.
• Added MMX i386 assembler versions of the HQ2x and HQ3x scalers.
• Added ‘Extra Path’ option allows for a searching an additional datafile location (for reencoded cutscenes and the like).
• Disabled Alt-x and Ctrl-z quit keys in favor of Ctrl-q on unix like operating systems, like Linux (exception: Mac OS X still uses Cmd-q).
• Separate smaller font for the console, allowing for more visible information, for example in the SCUMM debugger.
• Added support for setting output sample rate at run-time, although there is currently no GUI for it.
• The save directory now has a default rather than the current directory on some platforms:
  – Mac OS X: $HOME/Documents/ScummVM Savegames/
  – Other unices: $HOME/.scummvm/
• Added a new about dialog with scrolling credits.

SCUMM:
• Removed the old zak256 target, use zakTowns instead.
• Added native support for Macintosh versions using a special container file. This removes the need for using the ‘RESCUMM’ program.
• Added smooth horizontal scrolling for The Dig, Full Throttle and COMI (matching the original engine).
• Partially rewrote the text engine, fixing various bugs, especially in newer games (The Dig, COMI).
• Fixed actor drawing glitches in V1 Maniac and Zak.
• Fixed ship-to-ship graphic glitches in COMI.
• Fixed palette glitches in COMI.

Queen:
• Fixed some issues with the Dreamcast backend.

Sword1:
• Added support for compressed speech and music.
• Added support for the demo.
• Better support for the Czech version.
• Added workarounds for script and subtitle bugs in some game versions.

Sword2:
• Simplified memory/resource management.
• Simplified sound effects handling.
• Added support for compressed speech and music.
• Fixed various minor bugs.

BASS:
• Added workarounds for some rare scripting bugs that could render the game unwinnable.
42.36 0.6.1b (2004-08-03)

General:
• Fixed copy/paste bug in launcher that may corrupt the Savegame Path.
• Fixed crashes on 64-bit architectures.

SCUMM:
• Fixed VOC crash when playing DOTT Floppy.
• Fixed palette issues in Amiga version of MI2.

Simon:
• Fixed VOC crash.

42.37 0.6.1 (2004-07-25)

General:
• Fixed sound glitch when streaming two or more Ogg Vorbis sounds from the same file handle, e.g. in the Sam & Max intro when using monster.sog.

SCUMM:
• As usual: many SCUMM game engine fixes.
• Added graphics decoders for 3DO Humongous Entertainment games.
• Numerous Humongous Entertainment games fixes.
• Fixed bug in Full Throttle, so battle difficulty matches original.
• Improved Digital iMUSE.

Sword1:
• Warn the user if saving fails, instead of crashing.
• Slightly more user-friendly save/restore dialog.
• Fixed masking glitch outside Nico’s apartment.

BASS:
• Warn the user if saving a game doesn’t work.

Simon:
• Fixed crashes in some international versions.
New Games:
• Added Broken Sword 1 engine.
• Added Broken Sword 2 engine.
• Added Flight of the Amazon Queen engine.
• Added support for V1 SCUMM games ‘Maniac Mansion’ and ‘Zak McKracken’.
• SCUMM game Full Throttle is now supported.

General:
• Subtitles now default to disabled. ‘-n’ option now enabled subtitles.
• Added HQ2x and HQ3x scalers.
• Rewrote sound code for more flexibility and performance.
• Improved native MT32 support.
• AdLib GM emulation table revamped, providing more accurate software MIDI.
• Default Makefile now uses configure script.
• Greatly improved the launcher and options dialogs (work-in-progress).
• Many other “under the hood” improvements, like a new config management and plugin capabilities.

Simon:
• Added data files decoder for Amiga disk versions.
• Added support for inventory graphics in Amiga versions.
• Fixed various brief freezes.
• Fixed minor glitches in load/save dialog in non-English versions.
• Fixed missing inventory arrows in some versions of Simon the Sorcerer 1.

SCUMM:
• Many, Many, Many SCUMM game engine fixes. Many of them. And that’s a lot.
• Added INSANE support for Full Throttle ‘action sequences’.
• Added option to choose between AdLib, PCjr and PC Speaker in earlier games.
• Added AdLib support for indy3ega and loom (ega).
• Added MIDI support for loom (ega), monkeyega and monkeyvga.
• Added sound effects support for indy3/monkeyega/monkeyvga/pass.
• Added FM Towns targets for Loom and Indy3.
• Rewrote in-game menu (F5) to be easier to use.
• Improved FM Towns SFX support (YM2612 emulation, looping).
• Classic V1 versions of Maniac Mansion and Zak McKracken are now supported and completable.
• Rewrote Digital iMUSE music system.
• Several Analog iMUSE music system bugs fixed.
• Improved music/sound for various Amiga versions.
• Improved compression of Fate of Atlantis and Simon the Sorcerer 2 sound files.
• Keyboard fighting in Fate of Atlantis now works.
• Keyboard support for cannon battle in Curse of Monkey Island.
• Keyboard support for derby scene in Full Throttle.

42.39  0.5.1 (2003-08-06)

• Rewrote Beneath a Steel Sky savegame code (see note in READMEs ‘Known Bugs’).
• Fixed dialog skipping, music volume and several crashes/freezes in Steel Sky.
• Fixed dialog skipping in V7 games.
• Fixed glitch when quitting ScummVM in fullscreen mode on Mac OS X.
• Fixed various COMI bugs related to actor placement/scaling.
• Added complete Hebrew support for Simon the Sorcerer 1 and 2.
• Several MorphOS and DreamCast port fixes.
• DreamCast now runs Simon the Sorcerer 1 & 2.
• Fixed a fullscreen problem on Mac OS X were you couldn't use the mouse in the top part of the screen by linking to a bugfixed version of SDL.

42.40  0.5.0 (2003-08-02)

• Enhanced versions of Maniac Mansion and Zak McKracken are now supported and completable.
• Beneath A Steel Sky is now supported and completable.
• Added support for Amiga version of Monkey Island 1.
• Initial unplayable support for V1 version of Maniac Mansion/Zak McKracken.
• Curse of Monkey Island (COMI) support for playing from CD improved on Mac OS X.
• Loading COMI savegames for disk 2 doesn't anymore require disk 1 first.
• Rewritten iMUSE engine, and many Music fixes (exp. Monkey Island 2).
• Support for music in DOS versions of Humongous Entertainment games and Simon the Sorcerer 2 (XMIDI format).
• Support for music in floppy demo of Simon the Sorcerer 1 (Proprietary format).
• Complete music support for Simon the Sorcerer 2.
• Improved music and sound support in Zak256.
• Added Aspect Ratio option.
• Many other bug fixes, improvements and optimizations.

42.41 0.4.1 (2003-05-25)

• Added AdvMame3x filter.
• Fixed crash in Curse of Monkey Island (and possibly other games as well).
• Fixed airport doors in Zak256.
• Fixed crash in SDL backend.
• Fixed various iMUSE bugs.

42.42 0.4.0 (2003-05-11)

• Curse of Monkey Island (comi) support (experimental).
• Added support for the EGA versions of Loom, Monkey Island and Indy3.
• Improved music support in Indy3 and the floppy versions of Monkey Island.
• Many Simon the Sorcerer 1 & 2 improvements and fixes.
• Very pre-alpha Beneath a Steel Sky code. Don’t expect it to do anything.
• Even more pre-alpha support for V2 SCUMM games (Maniac Mansion and Zak).
• Preliminary support for early Humongous Entertainment titles (very experimental).
• New debug console and several GUI/Launcher enhancements.
• New Save/Load code (easier to expand while retaining compatibility).
• DreamCast port now works with new games added for 0.3.0b.
• New official PalmOS port.
• Various minor and not so minor SCUMM game fixes.
• Large memory leak fixed for The Dig/ComI.
• SMUSH code optimised, frame dropping added for slower machines.
• Code cleanups.
42.43 0.3.0b (2002-12-08)

- Massive cleanup work for iMUSE. Sam and Max music now plays correctly.
- Many bugfixes for Zak256, + sound and music support.
- Music support for Simon the Sorcerer on any platform with real MIDI.
- Experimental support for Indy3 (VGA) - Indiana Jones + Last Crusade.
- Completed support for Monkey1 VGA Floppy, The Dig.
- Added akos16 implementation for The Dig and Full Throttle costumes.
- Added Digital iMUSE implementation for The Dig and Full Throttle music.
- Loom CD speech+music synchronisation improved greatly.
- Added midi-emulation via AdLib, for platforms without sequencer support.
- Code separation of various engine parts into several libraries.
- Several fixes to prevent Simon the Sorcerer crashing and hanging.
- Hundreds of bugfixes for many other games.
- New SMUSH video engine, for Full Throttle and The Dig.
- New in-game GUI.
- Launcher dialog.

42.44 0.2.0 (2002-04-14)

- Core engine rewrite.
- Enhanced in-game GUI, including options/volume settings.
- Auto-save feature.
- Added more command-line options, and configuration file.
- New ports and platforms (MorphOS, Macintosh, Dreamcast, Solaris, IRIX, etc).
- Graphics filtering added (2xSAI, Super2xSAI, SuperEagle, AdvMame2x).
- Support for MAD MP3 compressed audio.
- Support for first non-SCUMM games (Simon the Sorcerer).
- Support for V4 games (Loom CD).
- Enhanced V6 game support (Sam and Max is now completable).
- Experimental support for V7 games (Full Throttle/The Dig).
- Experimental support for V3 games (Zak256/Indy3).
42.45 0.1.0 (2002-01-13)

• Loads of changes.

42.46 0.0.2 (2001-10-12)

• Bug fixes.
• Save & load support.

42.47 0.0.1 (2001-10-08)

• Initial version.
Chapter 43

Welcome to ScummVM!

ScummVM allows you to play classic graphic point-and-click adventure games, text adventure games, and RPGs, as long as you already have the game data files. ScummVM replaces the executable files shipped with the games, which means you can now play your favorite games on all your favorite devices.

So how did ScummVM get its name? Many of the famous LucasArts adventure games, such as Maniac Mansion and the Monkey Island series, were created using a utility called SCUMM (Script Creation Utility for Maniac Mansion). The ‘VM’ in ScummVM stands for Virtual Machine.

While ScummVM was originally designed to run LucasArts’ SCUMM games, over time support has been added for many other games: see the full list here. Noteworthy titles include Broken Sword, Myst and Blade Runner, although there are countless other hidden gems to explore.

43.1 Start here!

We have a user manual section covering THE BASICS:

Installation

*Installing ScummVM on a computer*

*Understanding the interface*

Playing games

*Handling game files*

*Adding and playing a game*

*Saving and loading a game*

Controls and settings

*Keyboard shortcuts*

*Changing settings*

Useful features
Connecting a cloud service

Using the local web server  We also have guides on how to get ScummVM running on a wide range of other platforms:

Handheld consoles
Nintendo 3DS
Nintendo DS
Nintendo Switch
PlayStation Portable
PlayStation Vita

Other consoles
PlayStation 3
Sega Dreamcast

Phones and tablets
iOS
Android

Other operating systems
AmigaOS 4
Atari/FreeMiNT
RISC OS

43.2 Advanced topics

For our more experienced users, ScummVM features a command line interface, as well as the ability to edit settings directly in a configuration file.

In this section, we also take a deep dive into understanding the graphics and audio settings.

Advanced features
Configuration file
Command line interface

Understanding the settings
The audio settings
The graphics settings
43.3 Getting help

ScummVM is still under development. While we do our best to make sure that as many games as possible can be completed with no major bugs, crashes can happen!

If you are having problems with any aspect of ScummVM, take a look at our help section.

Frequently Asked Questions
How to report a bug
Contact us

43.4 What’s changed since I was last here?

Check out the Release notes for both current and past releases.

43.5 The ScummVM Project

ScummVM is an open-source project created, maintained and constantly improved by a team of passionate volunteers from all around the world. If you enjoy using ScummVM and would like to support the team, you can use the PayPal Donate button below.

Another way to support us is to buy your games from GOG.com using the ScummVM Affiliate link.

If you have software development or technical writing skills, we would love for you to join the ScummVM team! Check out Developer Central on the ScummVM wiki for more information on contributing to ScummVM.