



# OCT v1.0-stable Creating Installers

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# Windows

To create an installer for Windows, we use the software Inno Setup Compiler. Inno Setup Compiler is a software program released under a free license. it works on several versions of Windows (from Windows 2000 to Windows 8) 32 and 64 bits. It manages the installation, uninstallation, and custom installations (Full Compact, Custom,...) and creates shortcuts and multilingual management.

### Download link:

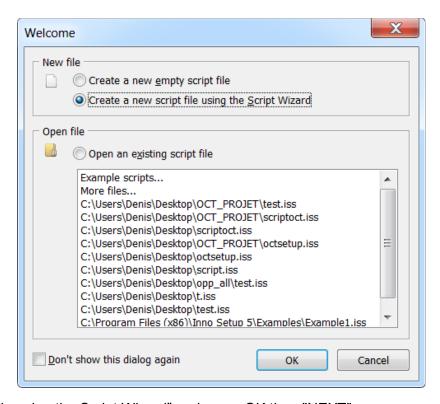
### http://www.jrsoftware.org/isdl.php

### Requirements:

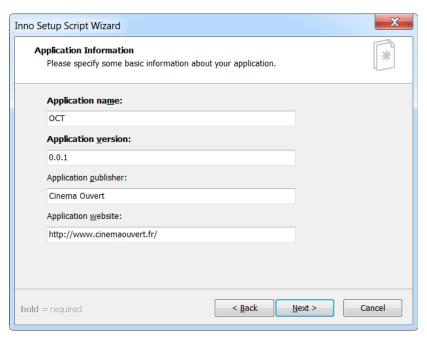
You must compile OCT in release mode, retrieve the adequate dll for Qt and QtAV.

Nom	Modifié le	Туре	Taille
k ffmpeg-20150129-git-4155f2d-win64-static	03/03/2015 10:17	Dossier de fichiers	
l mkvtoolnix	03/03/2015 10:18	Dossier de fichiers	
avcodec-56.dll	15/12/2014 16:19	Extension de l'app	8 072 Ko
avdevice-56.dll	15/12/2014 16:19	Extension de l'app	127 Ko
avfilter-5.dll	15/12/2014 16:19	Extension de l'app	1 112 Ko
avformat-56.dll	15/12/2014 16:19	Extension de l'app	1 416 Ko
avresample-2.dll	15/12/2014 16:18	Extension de l'app	162 Ko
avutil-54.dll	15/12/2014 16:18	Extension de l'app	418 Ko
icudt52.dll	15/01/2014 09:37	Extension de l'app	22 993 Ko
icuin52.dll	15/01/2014 09:36	Extension de l'app	3 269 Ko
icuuc52.dll	15/01/2014 09:36	Extension de l'app	1 946 Ko
ibwinpthread-1.dll	07/03/2014 19:56	Extension de l'app	48 Ko
<b>ⓒ</b> logo_oct	03/03/2015 10:28	Icône	41 Ko
III mktorrent	16/12/2014 14:33	Application	165 Ko
■ OCT	18/12/2014 16:23	Executable Jar File	25 Ko
OCT_Project	03/03/2015 10:05	Application	12 362 Ko
postproc-53.dll	15/12/2014 16:18	Extension de l'app	124 Ko
Qt5Cored.dll	01/10/2014 09:04	Extension de l'app	75 614 Ko
Qt5Guid.dll	11/09/2014 15:44	Extension de l'app	137 158 Ko
Qt5Networkd.dll	11/09/2014 15:38	Extension de l'app	33 005 Ko
Qt5OpenGLd.dll	11/09/2014 15:56	Extension de l'app	11 791 Ko
Qt5Widgetsd.dll	11/09/2014 15:54	Extension de l'app	139 315 Ko
Qt5Xmld.dll	11/09/2014 15:36	Extension de l'app	1 381 Ko
Qt5XmlPatterns.dll	11/09/2014 16:07	Extension de l'app	3 534 Ko
Qt5XmlPatternsd.dll	11/09/2014 16:12	Extension de l'app	138 123 Ko
QtAVd1.dll	18/12/2014 14:14	Extension de l'app	26 427 Ko
swresample-1.dll	15/12/2014 16:18	Extension de l'app	110 Ko
swscale-3.dll	15/12/2014 16:18	Extension de l'app	475 Ko

Your installation folder is ready, you can start "Inno Setup Compiler". You must choose "Create



a new script file using the Script Wizrad" and press OK then "NEXT". In the following window, you can fill the application name, its version and the name of the



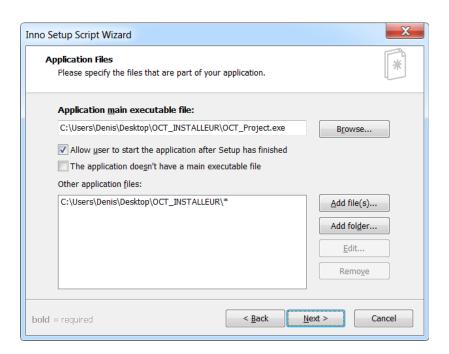
organization. Then press "NEXT".

In the following window, you have to choose the installation folder of OCT (Default: Program

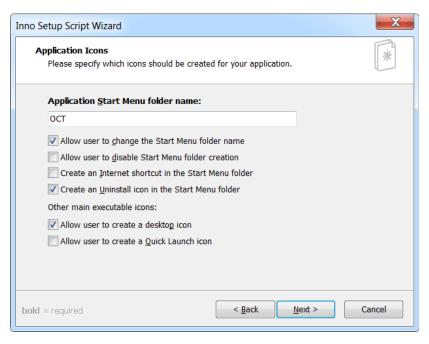


Files). Then press "NEXT".

In the following window, choose the executable OCT then add the folder with Dlls that you have prepared. Then press "NEXT".

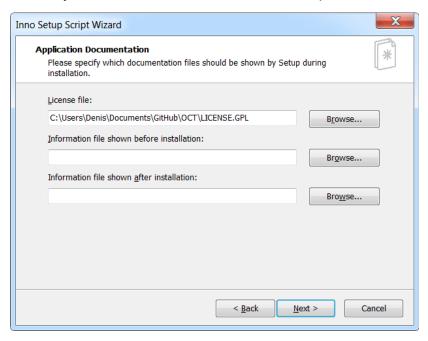


In the following window, you have to choose the name of the folder that will be created in the



Start menu. Then you can create desktop shortcuts for the Uninstall. Then press "NEXT".

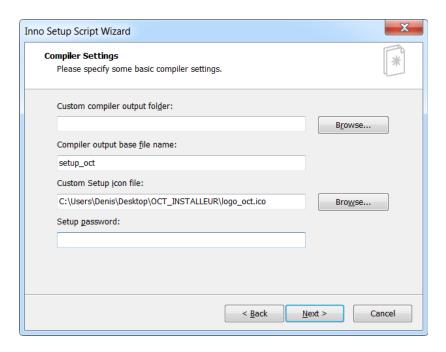
In the following window, you can add the license for OCT. Then press "NEXT".





In the following window, you can add languages for installation of OCT. Then press "NEXT".

In the following window, you have to choose the name of the installer and then you can put an icon to it. Then press "NEXT".



Finally, press "NEXT" then "FINISH". The software asks you to compile, press "NO" if you want to add an icon for the software.

In the generated script, there is a tag [Icons] for each of the lines below, add at the end:

```
[Icons]
Name: "{group}\{#MyAppName}"; Filename: "{app}\{#MyAppExeName}"; IconFileName: "C:\Users\Denis\Desktop\OCT_INSTALLEUR\logo_oct.ico"
Name: "{group}\{cm:UninstallProgram, {#MyAppName}}"; Filename: "(uninstallexe)"; IconFileName: "C:\Users\Denis\Desktop\OCT_INSTALLEUR\logo_oct.ico"
Name: "{commondesktop}\{#MyAppName}"; Filename: "{app}\{#MyAppExeName}"; Tasks: desktopicon; IconFileName: "C:\Users\Denis\Desktop\OCT_INSTALLEUR\logo_oct.ico"
```

### ; IconFileName: "path to icon.ico"

Now you can compile the script, go to the "Build and Compile" menu. An "Output" folder will be created on your desktop with the installer.

# MAC OS X

# Deployment for MAC OS X

If you have to deploy oct on MAC OS X, you must first compile oct on MAC on release mode. You'll find in the output directory the bundle created by QT called "oct.app".

Then, you use "macdeployqt" which is the Qt tool which puts the Qt ".framework" directories into our bundle "Frameworks" directory. It puts the .dylib binary files from Qt into the "Plugins" directory and automates the change of dependencies path in the ".framework" directories executables and the Qt plugins. It's located in the "bin" folder from the Qt directory installed on your computer.

Note that to do this manually you have to copy all the concerned dependencies from the Qt folder in good directories of the "oct.app" bundle. Then you have to use "otool" in command line to display the id of the binaries files and the path of their dependencies (including the "oct" executable in "oct.app/Contents/MacOs/", the "oct.app/Frameworks" content and the "oct.app/Plugins" content). Finally you have to use "install\_name\_tool" in command line to change the identifiers and the dependencies paths into the several binary files.

Note that the qt code embedded into your software has to know where to search the Qt's ".framework" files and the Qt's plugins used. To do that we add the following lines into the "main" function in "main.cpp":

```
#if defined( Q_OS_MAC )
        QStringList libPaths;
        libPaths << a.applicationDirPath() + "/../PlugIns";
        QApplication::setLibraryPaths( libPaths );
#endif</pre>
```

If we don't do this, the executable "oct" won't work on computers with the Qt librarie installed. The mac linker will load the Qt's dependencies from the oct bundle whereas the executable "oct" will load the Qt's dependencies from the Qt directory installed on the computer. The consequence will be that the oct couldn't be launch and there will be an error saying that we try to launch two time the same dynamic library.

# Debian/Ubuntu

To create an installer for Debian or Ubuntu, download "Debreate package", it is an open source software.

### Download link:

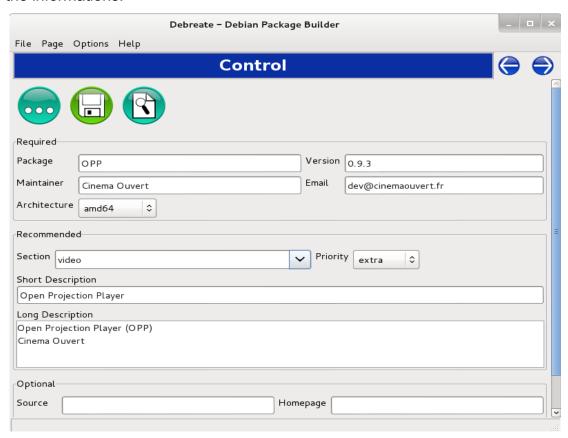
http://debreate.sourceforge.net/?page=download

# Requirements:

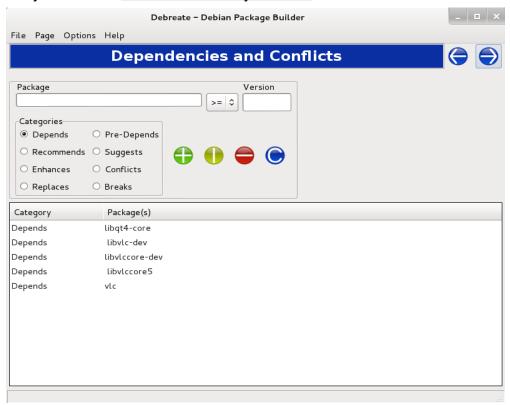
You must compile OPP in release mode to generate the adequate executable for the operating system.

## **Building:**

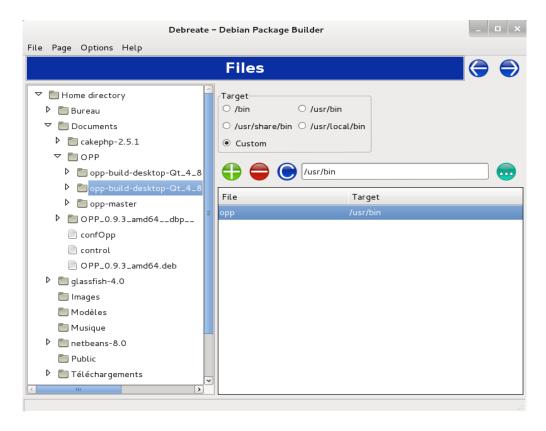
Start "Debreate" and create a new project. It starts a window were you have to fill all the informations.



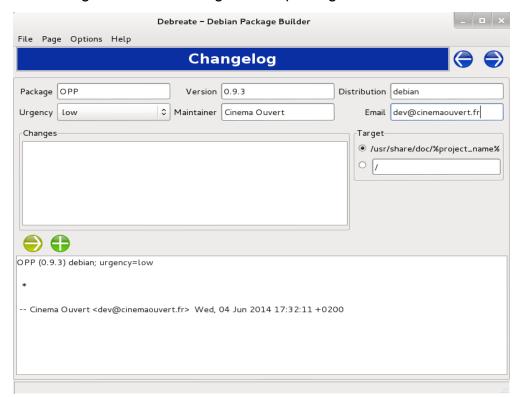
The following window shows the dependencies to install the package. In the window you need to add the necessary libraries



The following window shows the files required to install the package. Add executable, icon.



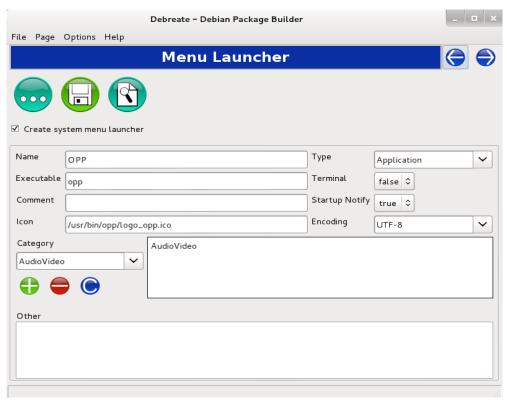
The following window shows logs for the package creation.



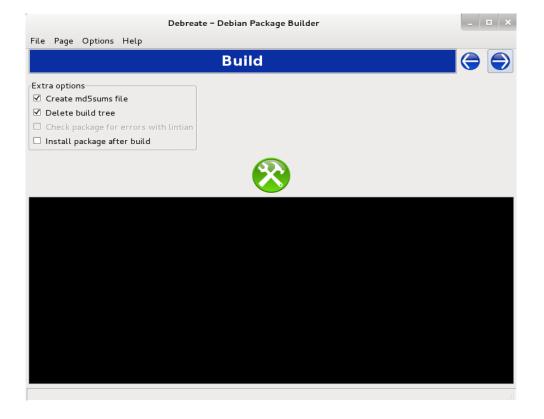
The following window shows the license of the software, copy the opp license in this window.



The following window shows the menu launcher, you need to add path to icon and category.



The following window shows the building step, choose create md5sums file and press build button.



The deb file is gener architecture.	ated with the nar	me of the operat	ing system with its	s version and his