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Download/Install

Notes

* If you encounter some problems during or after the installation that are related to software, then have a look at the [Troubleshooting](#), where you may find some already known issues.

Introduction

This section provides a step-by-step instructions for installing OpenAlea and Visualea.

OpenAlea can be obtained either as a release (eggs or tarball) or directly from SVN.

Users who want to install the released version should follow the instructions [automatic installation](#). If the automatic installation fails, try the manual installation [manual installation](#).

Developers should obtain OpenAlea from SVN following the instructions [manual installation](#).

Before you start

On MacOS X, please follow this page [mac installation](#)

On Linux distributions, you need to install third-party libraries. Please follow this page [linux third-party libraries installation](#)

Python installation

Before you start to install OpenAlea and its modules, you must install Python. Currently, OpenAlea is based on Python 2.5

On Windows, download and install [python == 2.5](#)

On Linux, use your distribution package or download and install [python == 2.5](#)

On MacOS X, use the default python provided with the system.

Third-party librairies such as Qt4

On Linux and MacOS X you will need to install third party library such QT4, PyQT4 and Boost by using your distribution packages. On Windows, these dependencies are automatically installed with the openalea installer.

Automatic Installation

We assume that you have Python and third-party libraries installed on your system (otherwise come back to [Before you start](#)). OpenAlea packages are distributed via the network ([Python Egg](#)). See [manual installation](#) if you experience network problems.

How to start

Download and Run the following script : [ez_alea_setup.py](#) This script will install the OpenAlea base packages that are required (deploy, deploygui). **The installation process can take a long time depending of your network connection (between 5 and 15 minutes). Please be patient !** . *Nota*: If you are behind a proxy, set the `http_proxy` environment variable to your proxy server. You should be able to launch the OpenAlea installer.

Start the OpenAlea Installer

On Windows, Start Menu ? OpenAlea ? OpenAlea Installer

On Linux and Mac, in a terminal (need root privileges) : `$sudo alea_install_gui`

Install the desired packages select the packages in the list and then click on Install. For instance, you could select all the recommended packages. For more information on the *OpenAlea Installer*, see the next paragraph.

Quit `alea_install_gui` and start `visualea` on Linux and Mac launch `visualea`, on Windows launch `visualea.exe`.

OpenAlea Installer

The **OpenAlea Installer** provides a graphical interface and allows to select the packages you want to install or remove.

Start the OpenAlea Installer

On Windows, Start Menu ? OpenAlea ? OpenAlea Installer

On Linux and Mac, in a terminal (need root privileges) : `$sudo alea_install_gui`

Install/Remove packages

Install an OpenAlea package from the network

Select the desired packages

Click on *install*

Note : *If a package has dependencies, they will be automatically installed.*

Install directly an egg file (a local file or from Pypi)

Go to the *Install Other Eggs* tab.
Select the egg file or enter the package name.

Note : *If a package has dependencies, they will be automatically installed.*

Remove a package :

Select the *remove packages* box,
Select the packages you want to remove
Click on *remove*

You can also use the terminal to install packages :

```
$ alea_install pkgname
```

or

```
$ alea_install egg_file
```

If you want more informations about the available packages, have a look to the [packages section](#).

Manual Installation

If the automatic installation method has failed (network problems, firewall?), you can install the different packages separately.

Please install all these following packages.

Dependencies

On *Windows*

-
-
-
-
-
-
-
-
-

Download and install [python == 2.5](#)

Setuptools : [Download latest release](#)

Download OpenAlea.Deploy : [Download latest release](#)

In a console : `c:\python25\scripts\easy-install.exe openalea.deploy-x.x.x.egg`

Download the egg files on the GForge website, and install them

In a console *as root*: `c:\python25\scripts\alea_install.exe egg_file.egg`

On Linux

Install Python == 2.5 : Use your distribution package or download [python == 2.5](#)

Setuptools : [Download latest release](#)

Qt4 and PyQt4 : use your distribution package or download and install [QT4 for Linux/X11](#) and [PyQt for Linux/X11](#)

Download OpenAlea.Deploy : [Download latest release](#)

- 1.
- 2.
- 3.

In a console *as root*: `easy_install openalea.deploy-x.x.x.egg`

Download the egg files on the GForge website, and install them

In a console *as root*: `alea_install egg_file.egg`

OpenAlea Installer

OpenAlea.DeployGui : [Download latest release](#) - [Package description](#)

Visual Programming

OpenAlea.Core : [Download latest release](#) - [Package description](#)

OpenAlea.Visualea : [Download latest release](#) - [Package description](#)

Standard Libraries

OpenAlea.StdLib : [Download latest release](#) - [Package description](#)

Compilation/Installation Tools for source packages

OpenAlea.SconsX : [Download latest release](#) - [Package description](#)

Scons >= 0.97 :

On *Windows* : Use the scons egg on the gforge

On *Linux* : Use your distribution package

GNU-G++

On *Windows* : Use the MinGW egg file

On *Linux* : Use your distribution package

Some particular packages need also the following tools :

GNU Bison Flex (for PlantGL and VPlants)

On *Windows* : Use the BisonFlex egg on the gforge

On *Linux* : use your distribution packages

External packages

If you look after a particular package, check the [packages list](#).

Each package is distributed as a source package and/or a binary package for GNU/Linux and MS/Windows.

Subversion (SVN) sources repository

All the **OpenAlea** sources are available on the [OpenAlea SVN repository](#).

You have 3 possibilities depending on your permissions to access the SVN archive:

You can download **anonymously** the latest sources (but you will not be able to commit new files or updates into the SVN archive):

```
svn checkout svn://scm.gforge.inria.fr/svn/openalea/trunk openalea
```

Download with **WebDAV** (recommended) if you are registered in the project

```
svn checkout https://développeur@scm.gforge.inria.fr/svn/openalea/trunk  
openalea
```

Or finally via **SSH**:

```
svn checkout svn+ssh://développeur@scm.gforge.inria.fr/svn/openalea/trunk  
openalea
```

Similarly, if you have an account on other projects such as **VPlants**, you can get the SVN sources with this type of command (only registered user method are available):

```
svn checkout --username <username>  
https://scm.gforge.inria.fr/svn/vplants/vplants/trunk vplants
```

For more information about subversion, you can refer to this [Tutorial](#).

In order to use directly Subversion packages without installing them, add the *path of the openalea trunk directory* to your PYTHONPATH environment variable. For more information, read [development environment](#), [linux](#), [windows](#), [macosx](#), [installation](#), [ez alea setup](#)