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How to use SVN (subversion)

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Introduction

OpenAlea uses a source code management system called Subversion for all the source code. This allows us to keep a complete history for each file and facilitate collaborative developments. There are repositories on an SVN server (the GForge), and you use an SVN client to get the code and send it back to the server.

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SVN Access

On the GForge, repositories can have different access rules. Some are publicly read-only, some or totally private (which means only authorized developers can get access to read/write to it). The following table summarizes the access rights. Of course if you don't have the read rights, you won't be able to view the websvn. If you have an account, consider logging in.

	Public	Developers	Link
Openalea	Read	Read-Write	WebSVN
VPlants	None	Read-Write	WebSVN
Openalea	Read	Read-Write	WebSVN

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Gaining developer access

First you need to register an account on the forge. Then you must request access to the repository you want:

openalea
vplants
alinea

Your request will then be accepted or refused by the project administators.

Configuring your dev access

To commit new changes, you need to be registered on the Gforge platform. If you want to *read* and *write* on a SVN repository, you need a authenticated access. You can use either **SSH** or **DAV**.

SSH

The SSH protocol is the most convenient to use but need some configuration. To use the SSH protocol, you need to upload your public SSH Key. Please read this tutorial http://siteadmin.gforge.inria.fr/FAQ.html#Q6.

DAV

The DAV protocol doesn't need any configuration, but you will need to enter your GForge password for every SVN access.

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Getting the code

You can retrieve the code by using subversion clients for you platform. There are command-line clients and graphical clients. The command line represents the standard so any instruction will be given as a command line.

SVN Clients

Graphical clients

RapidSVN (Gnome) (with Meld Diff tool) - Multiplatform (outdated)
RabbitVCS - Linuxes
eSVN - KDE
TortoiseSVN - Windows

Console Mode

For linux, install the subversion package of your distribution. For windows, just add tortoiseSVN's binary path to you system's path.

Retrieving the code for the first time

Take a look at the WebSVN links given here for instructions on how to download the source code.

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Basic Operations

Checkout (First Download) : See here.
Update (To retrieve last modifications) :
```
svn update
```

Commit (To commit your modifications) :
```
svn commit
```

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Advanced Operations

Follow this link.

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References

http://svnbook.red-bean.com/

http://siteadmin.gforge.inria.fr/FAQ.html#Q6

svn, branching

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