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Main Documentation

Welcome to **OpenAlea documentation** wiki pages !

You can find here basic guides and procedures for using openalea and visualea, together with instructions on how to develop your own package.

Wiki pages also contain brief presentations of currently available [packages](#).

For a more complete documentation on alea components and packages, please visit

[Sphinx documentation of stable release](#)

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Highlights

Quick Start

[Beginner's tutorial](#)

Package documentation

Visit the [Package repository](#).

Documentation is constantly upgraded. If you cannot find some information on the site, send us a [Support Request](#).

You can also submit your documents you want to share. Contact the [administator](#).

sphinx documentation (full documentation of all packages) Visit the [Sphinx documentation pages](#).

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User Documentation This section groups documents to install and use OpenAlea.

General documentation

[User Guide](#)

[FAQ \(frequently asked questions\)](#)

[OpenAlea License](#)

[Changelog](#)

[Troubleshooting](#)

Tutorials

[Beginner's tutorial](#)

[Dataflow examples](#)

[Plant modeling demonstration directory](#)

OpenAlea workshop

[1st OpenAlea Workshop](#)

Specific concerns

[installation guide](#)

[python scripting](#)

[visual programming](#)

[how to change environment variable](#)

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Developer Documentation

This section groups documentation for packages and core developers.

Main Guides

[Developer Guide](#)

Guidelines

[architecture description](#)

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[coding guidelines](#)

[how to create source distribution of a project](#)

[license guidelines](#)

Package creation/distribution

[build and install framework](#)

[development environment](#)

[how to create an openalea package](#)

[how to create source distribution of a project](#)

[how to distribute an openalea package](#)

[how to integrate cpp code in python](#)

[how to manage data](#)

[how to use java and python together](#)

[methodology](#)

Components creation

[automatic widget creation and interfaces](#)

[component naming guidelines](#)

[how to declare logical components](#)

Documentation and Tests

[how to add unit tests to your package](#)

[how to document cpp api](#)

[how to document python api](#)

[how to start sphinx documentation of your module](#)

[sphinx_proposal](#)

Tools

[How to use SVN \(subversion\)](#)

[advanced_operations](#)

[continuous_integration](#)

[how_to_use_collaborative_tools](#)

[macosx_tips](#)

[pydistutils](#)

Collaborative work

[Weekly sprints](#)

[2013](#)

[Coding sprints summaries](#)

[Modelling sprints Summaries](#)

Core Development

[Concept definitions](#)

[Class Model](#)

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[Release process](#)

[Specific Procedure to create eggs](#)

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Administration Documentation

This section groups documentation for administration purposes.

Procedures

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[Upload Sphinx documentation of a package](#)

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[Release](#)

[Todo](#)

[How to test VisuAlea package](#)

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Formation

[CIRAD Elearning](#) (in french)

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Publications

Publications This section contains all publications associated to the OpenAlea Project and its components (white papers, workshops, presentations, etc).

2010

Introduction to OpenAlea: a platform for plant modelling, T. Cokelaer, C. Pradal, C. Godin, (IHC 2010 [slides](#))

VisuAlea, Towards a Scientific Modelling Environment using Visual Programming, C. Pradal, D. Barbeau, T. Cokelaer, E. Moscardi EuroSciPy 2010 [slides from euroscipy site](#) (EuroSciPy 2010 [slides](#))

2009

Plant modelling with Python components in OpenAlea, T. Cokelaer, C. Pradal, C. Fournier EuroSciPy 2009 [Slides](#)

2008

OpenAlea: A visual programming and component-based software platform for plant modeling, C. Pradal, S. Dufour-Kowalski, F. Boudon, C. Fournier, C. Godin Functional Plant Biology [WebSite](#)

2007

Openalea - Visual programming and component based software for plant modeling, C. Pradal, S. Dufour-Kowalski, Europython conference - 2007. [openalea_europython07.pdf](#) [WebSite](#)

OpenAlea - An open-source platform for the integration of heterogeneous fspm components, S. Dufour-Kowalski, C. Pradal, N. Dones, P. Barbier de Reuille, F. Boudon, J. Chopard, D. DaSilva, J.-B. Durand, P. Ferraro, C. Fournier, Y. Guédon, A. Ouangraoua, C. Smith8, S. Stoma, F. Théveny, H. Sinoquet and C. Godin, 5th International Workshop on Functional-Structural Plant Models - 2007. [fspm07_poster.pdf](#), [Proceedings](#).

The architecture of OpenAlea: A visual programming and component based software for plant modeling, C. Pradal, S. Dufour-Kowalski, F. Boudon, N. Dones, 5th International Workshop on Functional-Structural Plant Models, pages 25-1?25-4 - 2007. [Abstract](#)

2006

OpenAlea - A platform for plant modelling, analysis and simulation, C. Pradal, F. Boudon, N. Dones, J.-B. Durand, P. Barbier De Reuille, C. Fournier, H. Sinoquet, C. Godin, Europython conference - 2006. [openalea_europython.pdf](#) <http://indico.cern.ch/contributionDisplay.py?contribId=98&sessionId=50&confId=44>

2004

ALEA: A software for integrating analysis and simulation tools for 3D architecture and ecophysiology, C. Pradal, N. Dones, C. Godin, P. Barbier de Reuille, F. Boudon, B. Adam, H. Sinoquet, 4th International Workshop on Functional-Structural Plant Models, page 406 - 2004. [4thfspm04_s8pradal.pdf](#) <http://www-sop.inria.fr/virtualplants/Publications/2004/PDGBBAS04/>

In French

ALEA : Atelier logiciel libre pour la modélisation des plantes, C. Pradal, C. Godin, Causeries d'Intech'Sophia - INRIA - 2005. [alea_overview.pdf](#) http://www-sop.inria.fr/intech/causeries/logiciel_libre.html



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