

OpenAlea Software Environment

Presentation

OpenAlea is an *open source* project primarily aimed at the **plant research community**, with a particular focus on Plant Architecture Modeling at different scales.

It is a distributed collaborative effort to develop Python libraries and tools which address the needs of current and future work in Plant Architecture modeling. OpenAlea includes modules to *represent, analyse, and model the functioning and growth* of plant architecture.

OpenAlea is developed concurrently on Windows, MacOSX and Linux. The source code is available under a *free and libre license*. If you are interested in OpenAlea and would like to help it grow, please join in the process.

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Alinea project: Light interception on maize crop within OpenAlea

Goals

- **Share knowledge**
 - Reuse software & tools
 - Share development between various teams
 - Share databases
 - Exchange experiences & methodologies
 - Share training effort
- **A component based software architecture**
 - Integration of existing softwares & tools
 - Rapid development of new models
 - Quality rules
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- [Download OpenAlea Now !!! \(ez alea script\)](#)
 - [FAQs](#) and [known troubleshootings](#)
 - Read [documentation](#) for using and contributing to Openalea
 - Read the OpenAlea Newsletter (coming soon)
 - Interact with the OpenAlea community [using the forum and mailing lists](#).
 - Report a new [bug or change request](#)

OpenAlea provides

A visual programming tool based on a dataflow paradigm that makes the development of new models and applications intuitive

Tools and methodology to integrates existing models into the Python language

A component-based architecture that allows the dynamic and flexible creation of applications

Shared data structures and algorithms for plant modelling

Licence

OpenAlea is released under CECILL-C and CECILL-v2 licences (LGPL and GPL-like). Read the [license informations](#).

Download

See the [Download Page](#)

Need more Information ?

You can use the forum : [OpenAlea Forum](#).

Have a look to the [Frequently Asked Questions](#) or to the [Documentation directory](#).

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