

Salome-Meca Users' Day 2018

Code_Aster & Salome-Meca on Windows platform



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1. Code_Aster & Salome-Meca on Windows platform : Why?

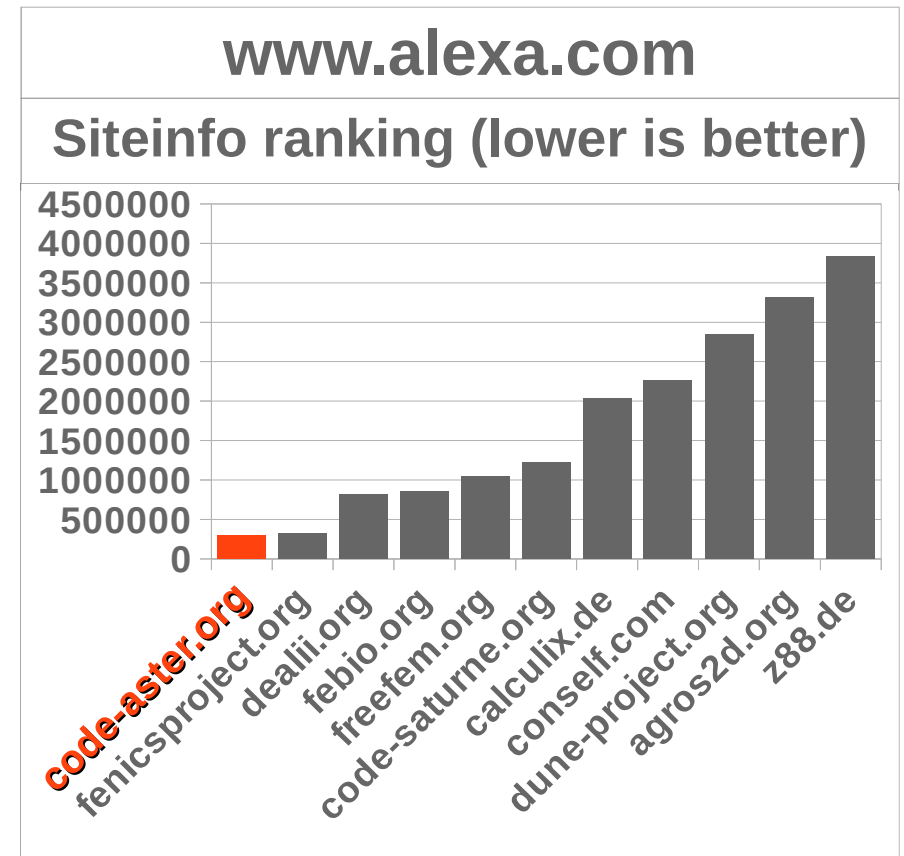


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Code_Aster website

Most famous open-source FEA project

- **Affordable**
 - modest budget
- **High-level**
 - Multi-analysis
 - customized solutions



Code_Aster website for Linux platform only!

- Really difficult to understand what to do
- New visitors will give up
- Fearless ones will look for an alternative

Installation

- Uncompress the file and launch the install:

```
tar xvf Salome-Meca-2017.0.2-LGPL-2.tgz && ./Salome-Meca-2017.0.2-LGPL-2.run
```

Prerequisites

This page provides information about the necessary

Code_Aster's packages - called aster-full - include

However, several elementary tools are required an

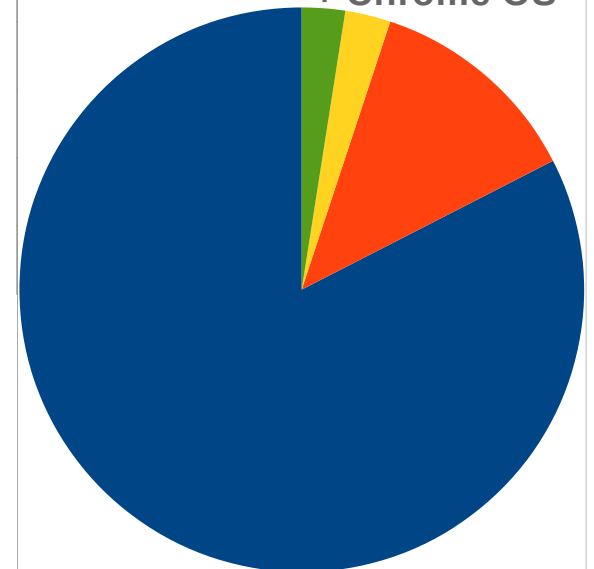
They are :

- gcc, g++, gfortran (or other compilers),
- cmake,
- python,
- python-dev,
- python-numpy,
- python-qt4,
- tk,
- bison,
- flex,
- liblapack-dev, libblas-dev ou libopenblas-dev,
- zlib (named zlib1g-dev on debian/ubuntu).

Statcounter

% desktop OS Market share
Worldwide (fev 2018)

■ Windows ■ OS X
■ Unknown ■ Linux + Other
+ Chrome OS



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Salome-Meca Alternative 1

Check for a Windows version

- **Proof of concept versions**
 - **Missing features**
 - **Unmaintained**
 - **Not convenient**
- **Commercial versions, price**
 - **Unmaintained**
 - **not affordable**

Year	Version	Publisher	Arch	Model
2006	8.2 testing	Sourceforge A Assire	32 bits	Free
2007	8.4 stable	NECS	32 bits	Free
2009	10.1 testing	Pimeca J-F Maurel	32 bits	Free
2012	10.7 stable	Alneos	64 bits	Commercial
2013	11.4 stable	Alneos	64 bits	Commercial

Salome-Meca Alternative 2

Virtual env, dual boot, cluster

- **Virtual env : performances, memory, stability**
- **Dual boot : time reboot, work-flow breaking**
 - **Not convenient**
- **Cluster : IT installation, price**
 - **not affordable**
- **Linux : installation, command line, compilation**
 - **learning curve with a steep start**
 - **Not convenient, nor affordable**

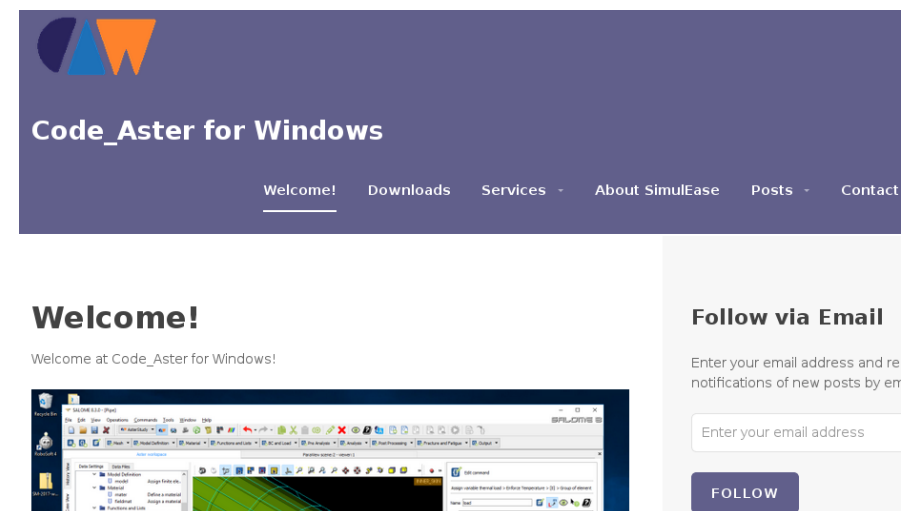
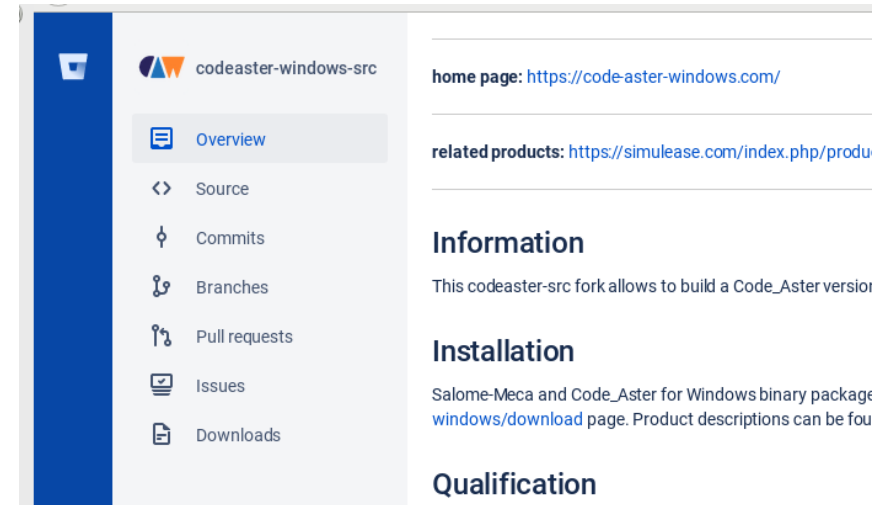
2. Code_Aster for Windows establishment



code-aster-windows.com

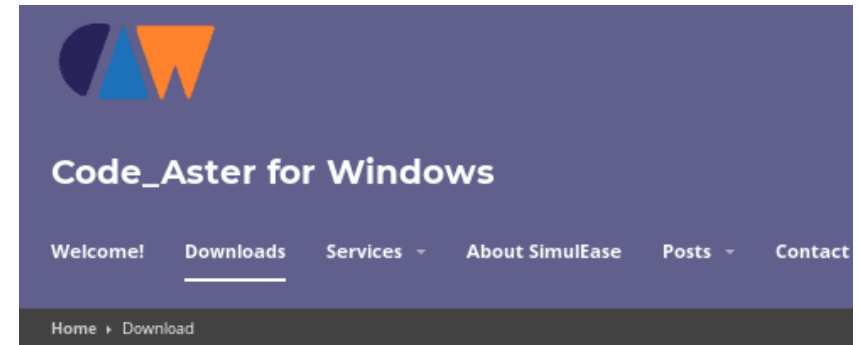
Code_Aster for Windows an independant project

- **An open-source fork on bitbucket**
 - Fixed blocking issues
 - QA : 3200/3600 tests
 - Planned missing features
 - homard, mfront, ...
- **A dedicated website for Windows users**
 - *code-aster-windows.com*



Code_Aster for Windows free recent binary versions

- **Salome-Meca 2017**
 - Asterstudy
 - Salome Launcher
 - Code_aster 13.4
- **Code_Aster 13.4**
 - 64 bits, Stable
 - Med, Mumps, ...
- **Other products**



Download

[Salome-Meca 2017](#) and Code_Aster stable binaries are available for 64-bit Windows systems. Code_Aster has been validated by [running QA tests](#) on Windows 7, Windows 10 and Windows Server (might also work on other platforms).

Salome-Meca 2017 for Windows (prepost graphical solution+solver)

Alternative download links : [SM-2017-w64.part1](#) and [SM-2017-w64.part2](#).

MD5: ec48d8fb013bea6cec721b9fd5187e12 Size: 1304075650

This [simple tutorial](#) shows how to begin with Salome-Meca on Windows.

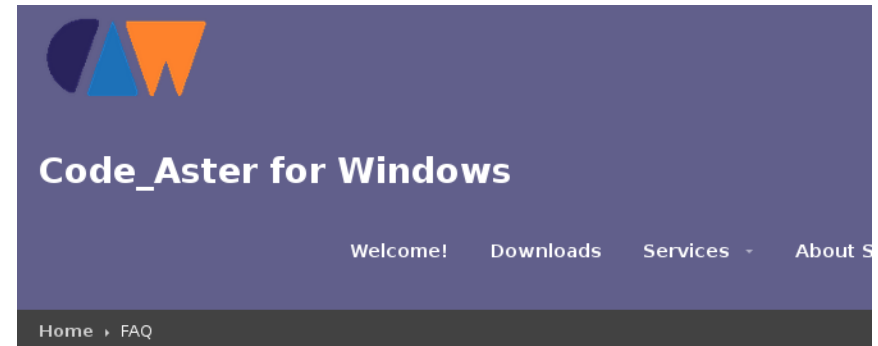
Code_Aster 13.4 for Windows (solver only)

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Code_Aster for Windows a welcome to new users

- Step by step tutorials
 - Begin with Code_Aster
 - Begin with AsterStudy
 - Begin with ParaVis
- FAQ page
 - Installation issues
 - Common issues



FAQ

About Code_Aster Win

- ▶ What is Code_Aster Windows?
- ▶ Are there any limitations compared to Code_Aster versions?
- ▶ What is Salome-Meca Windows?
- ▶ Why not every module is present in Code_Aster Windows?

Top Posts

[Install Salome on Windows](#)

[Beginning with AsterStudy and Salome-Meca on Windows](#)

[Salome-Meca 2017: AsterStudy module](#)

[Beginning with Salome and Code_Aster for Windows](#)

[Install Code_Aster on Windows](#)

[New version of Salome-Meca for Windows](#)

[Beginning with post-processing Paravis module in Salome-Meca](#)



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3. Code_Aster for Windows feedback

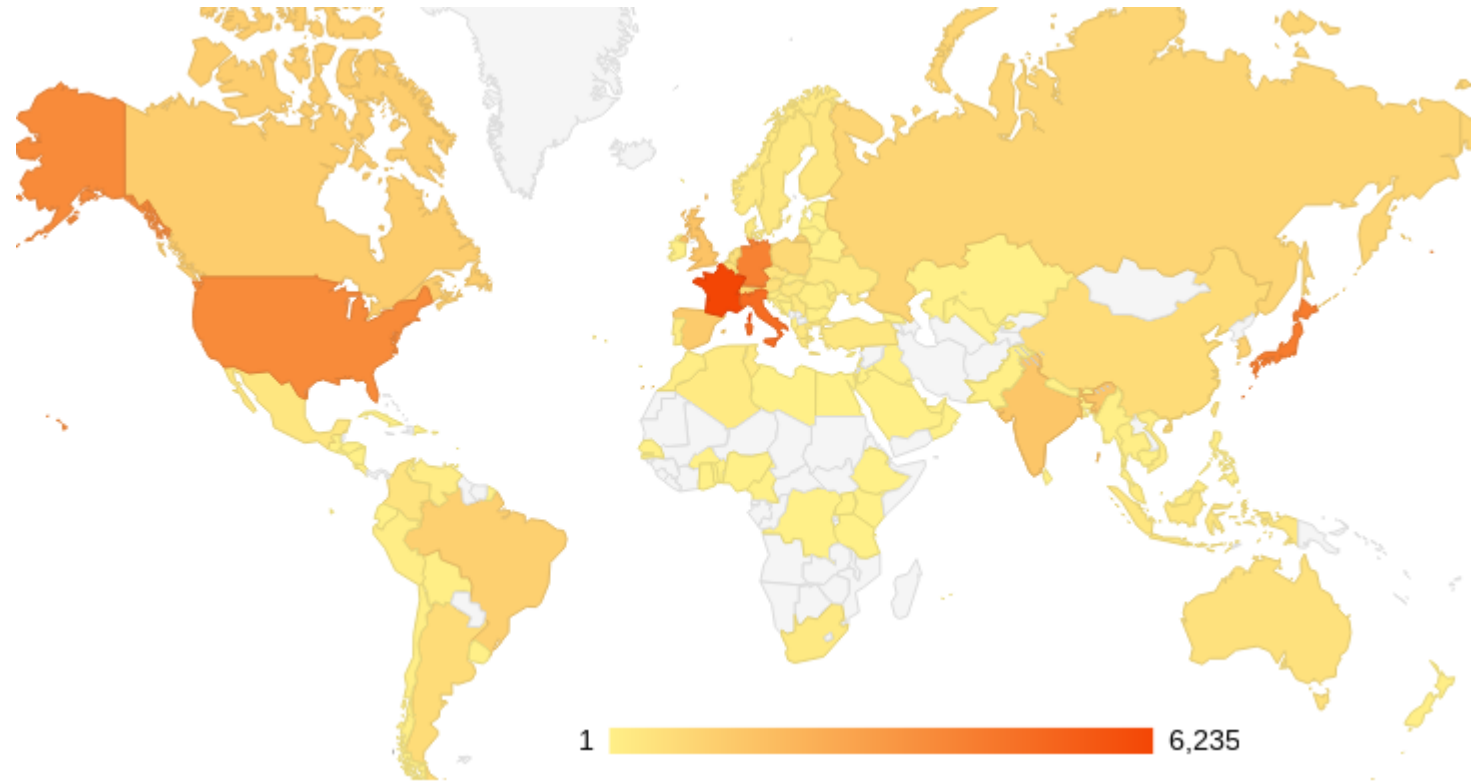


code-aster-windows.com

Code_Aster for Windows

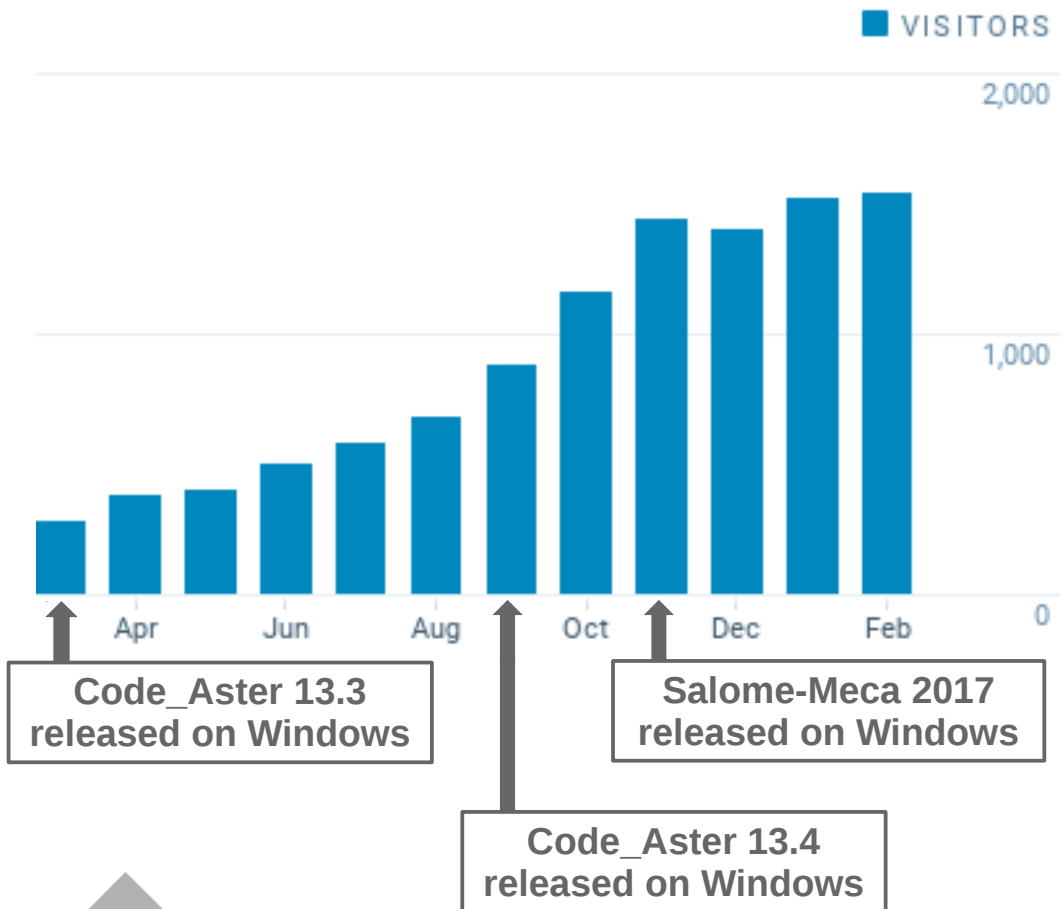
Visitors: Top 10 countries and mapping overview

	France	6,235
	Italy	4,847
	Japan	4,264
	Germany	4,038
	United States	3,713
	United Kingdom	1,660
	India	1,524
	Spain	1,353
	Canada	1,281
	Brazil	1,162



Code_Aster for Windows

Success: a rapid growth and numerous downloads



More than 50000 hits

Product	Download count
Salome-Meca 2017	4300
Code_Aster 13 (standalone)	2450
Other	900
Total	7650

Very positive feedback



Thank you for your attention
contact@simulease.com



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