

## 1.2 Installation

# MATLAB et Octave pour débutants

MER Simone Deparis

MATLAB et Octave pour débutants





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### Logiciels professionnels

Dernière modification 01.06.2015

Poséidon ne s'occupe pas de l'installation des logiciels professionnels. Pour les **étudiants de l'EPFL uniquement**, il existe des exceptions à cette règle :

#### Logiciels payants, offert aux étudiants EPFL et supporté par Poséidon

##### • Mathematica

Mathematica est disponible sur cette page : <http://soft-epfl.epfl.ch/students/mathematica> (environ 1Go).

##### • Matlab

Matlab est disponible sur cette page : <http://soft-epfl.epfl.ch/students/matlab> (environ 2Go).

Cette édition **MATLAB & Simulink Standard Version** est disponible pour les systèmes d'exploitation Linux (64bits), Mac OS X (64 bits) et Windows (32 et 64 bits) et comprend 14 toolboxes (15 sur Windows) à savoir :

Simulink	Optimization Toolbox
Bioinformatics Toolbox	Signal Processing Toolbox
Control System Toolbox	SimMechanics
Curve Fitting Toolbox	SimScape
DSP System Toolbox	Stateflow
Data Acquisition Toolbox (Windows only)	Statistics Toolbox
Image Processing Toolbox	Symbolic Math Toolbox
Instrument Control Toolbox	Parallel Computing (depuis R2013a)
Simulink Control Design (depuis R2013a)	

**Les utilisateurs de l'EPFL peuvent bénéficier du support technique de MathWorks. Les informations expliquant comment contacter l'équipe du support technique et comment envoyer une demande se trouvent sur le site de MathWorks :**

Logiciels libres

Logiciels Microsoft

Logiciels professionnels

Rechercher

### CONTACTS

Svp, utilisez l'email de votre école pour nous écrire

#### EPFL

Helpdesk MA A0 388      lun-ven : 10h-17h  
+41 21 693 22 62  
e-mail  
Helpdesk RLC      lun-ven : 11h-20h

#### UNIL

Helpdesk Amphimax      lun-ven : 8h-17h  
+41 21 692 22 11  
e-mail

#### HES-SO

Contact HES-SO

#### UniNE

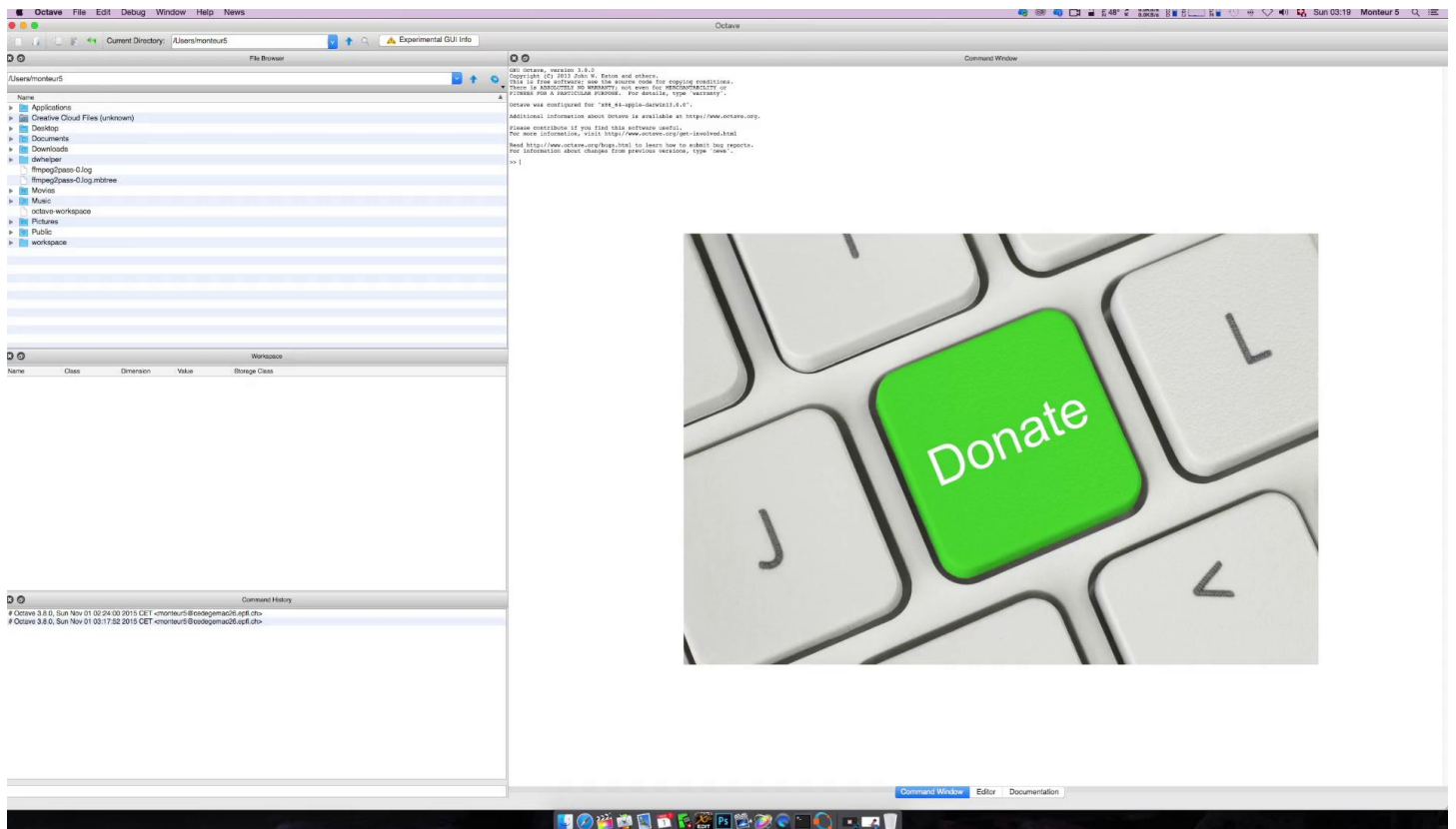
Contacter le support

Vous pouvez l'acheter ou si vous êtes étudiant ou employé des PFL, en obtenir une version avec la licence du campus.

Notes

Summary





Octave, au contraire, est un logiciel gratuit distribué sous GPL. Les développeurs le mettent à disposition de la communauté, mais gratuit ne veut pas dire qu'il ne coûte rien. C'est pour ça que les développeurs demandent des donations aux utilisateurs.


Notes

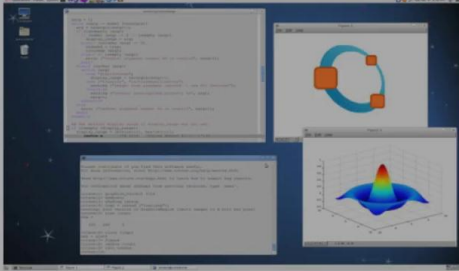
Summary



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# GNU Octave





GNU Octave is a high-level interpreted language, primarily intended for numerical computations. It provides capabilities for the numerical solution of linear and nonlinear problems, and for performing other numerical experiments. It also provides extensive graphics capabilities for data visualization and manipulation. Octave is normally used through its interactive command line interface, but it can also be used to write non-interactive programs. The Octave language is quite similar to Matlab so that most programs are easily portable.

Octave is distributed under the terms of the [GNU General Public License](#).

**May 29, 2015 — Octave 4.0.0 Released**

Version 4.0.0 has been released and is now available for [download](#). Octave 4.0 is a major new release with many new features, including a graphical user interface, support for `classdef` object-oriented programming, better compatibility with Matlab, and many new and improved functions.

An official Windows binary installer is also available from [http://ftp.gnu.org/gnu/octave/windows/octave-4.0.0\\_0-installer.exe](http://ftp.gnu.org/gnu/octave/windows/octave-4.0.0_0-installer.exe)

A list of important user-visible changes is available at <http://octave.org/NEWS-4.0.html>, by selecting the Release Notes item in the News menu of the GUI, or by typing `news` at the Octave command prompt.

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Bitcoin donations also accepted at this address, 1E8hA6MX1ERJQ3UaWf4VYK5S2EHF

Je tape "Octave" pour rechercher mes pages. Alors voilà la page d'Octave. Pour l'installation, je dois aller sur "Download".

Notes

Summary

0m 45s



## Download GNU Octave



GNU Octave 4.0.0 was released May 29, 2015. Please read the [announcement](#) on the front page of the Octave web site.

### GNU/Linux systems

Executable versions of Octave for GNU/Linux systems are provided by the individual distributions. Distributions known to package Octave include: [Debian](#), [Fedora](#), [Gentoo](#), and [SuSE](#). These packages are created by volunteers. The delay between an Octave source release and the availability of a package for a particular GNU/Linux distribution varies. The Octave project has no control over that process.

### BSD systems

Executable versions of Octave for BSD systems are provided by the individual distributions. Both [FreeBSD](#) and [OpenBSD](#) have Octave packages. These packages are created by volunteers. The delay between an Octave source release and the availability of a package for a particular GNU/Linux distribution varies. The Octave project has no control over that process.

### OS X

The Wiki has some instructions for [installing Octave on OS X systems](#).

### Windows

Windows binaries with corresponding source code can be downloaded from <https://ftp.gnu.org/gnu/octave/windows/>

### Sources

The latest released version of Octave is always available from <ftp://ftp.gnu.org/gnu/octave>.

If you are interested in working with the latest version of the Octave sources, check out the [resources for developers](#).

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#### Donate

Your donations help to fund continuing maintenance tasks, development of new features and the organization of Octave conferences.

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Following the Continue link will take you to a Free Software Foundation page for payment processing.

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Bitcoin donations also accepted at this address, [1E8hAaBMX1E7EJQ3S2uWf4VYK5S2E1HF](https://blockchain.info/address/1E8hAaBMX1E7EJQ3S2uWf4VYK5S2E1HF)

Comme vous le voyez, il y a Linux, BSD, OS X et Windows. Nous, on est intéressé par l'installation sous OS X.

Notes

Summary



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Octave for MacOS X

GNU Octave is primarily developed on GNU/Linux and other POSIX conformant systems. GNU Octave for Mac OS X is readily available using [package managers](#) such as [Fink](#), [MacPorts](#), and [Homebrew](#).

About version numbers (as of January 2014):

- The 3.8.x are current releases.
- The 3.6.x are previous releases.
- The 3.4.x are very old releases.

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Octave server VM installer for OSX 10.10 Yosemite [edit]

Configuration [files](#) that cause Vagrant to automatically download and configure an Octave server VM under OS X including 10.10 Yosemite. The install process pulls down the latest stable Linux version of Octave at the time of run headless, and display the Octave GUI and graphics on the host via the Mac's native X-windows server. The recommended configuration ensures that by default user files written by the GUI are in a folder shared with the Mac shared folder.

Binary installer for OSX 10.9.1 [edit]

A [binary installer](#) for Mavericks can be found on Octave Forge.

This installer will install all binaries for GNU Octave 3.8.0 itself and its dependencies under

/usr/local/octave/3.8.0

And will create two entries in the Applications folder

Il y a différentes possibilités, et celle nouvelle et assez facile, c'est l'installation binaire.

Notes

Summary



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Octave-Forge

A collection of packages providing extra functionality for GNU Octave

Brought to you by: [adb014](#), [carandraug](#), [hauberg](#)

Summary

Files

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Code

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Discussion

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Looking for the latest version? [Download optim-1.3.0.tar.gz \(193.7 kB\)](#)

Home / Oct / ... / 2013-12-30 binary installer of Octave 3.8.0 for OSX 10.9.1 (beta)

Name	Modified	Size	Downloads / Week
Parent folder			
README.txt	2014-01-05	3.0 kB	37
<a href="#">GNU Octave 3.8.0-6.dmg</a>	2014-01-02	682.4 MB	1,034
Totals: 2 Items		682.4 MB	1,071

How to install.

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You may need to override Gatekeeper to allow installation of GNU Octave 3.8.0 on OSX 10.9 (Mavericks).

You may find instructions about how to do this on this page:  
<http://support.apple.com/kb/ht5290>  
in the section labeled "How to open an app from a unidentified developer and exempt it from Gatekeeper".

In short:

- In Finder, Control-click or right click the icon of the app.

Recommended Projects

AquaTerm (Mac OS X graphics terminal)

FreeMat

Quite Universal Circuit Simulator

A circuit simulator with graphical user interface (GUI)

Alors il faut télécharger le binaire, on peut lancer le téléchargement.

Notes

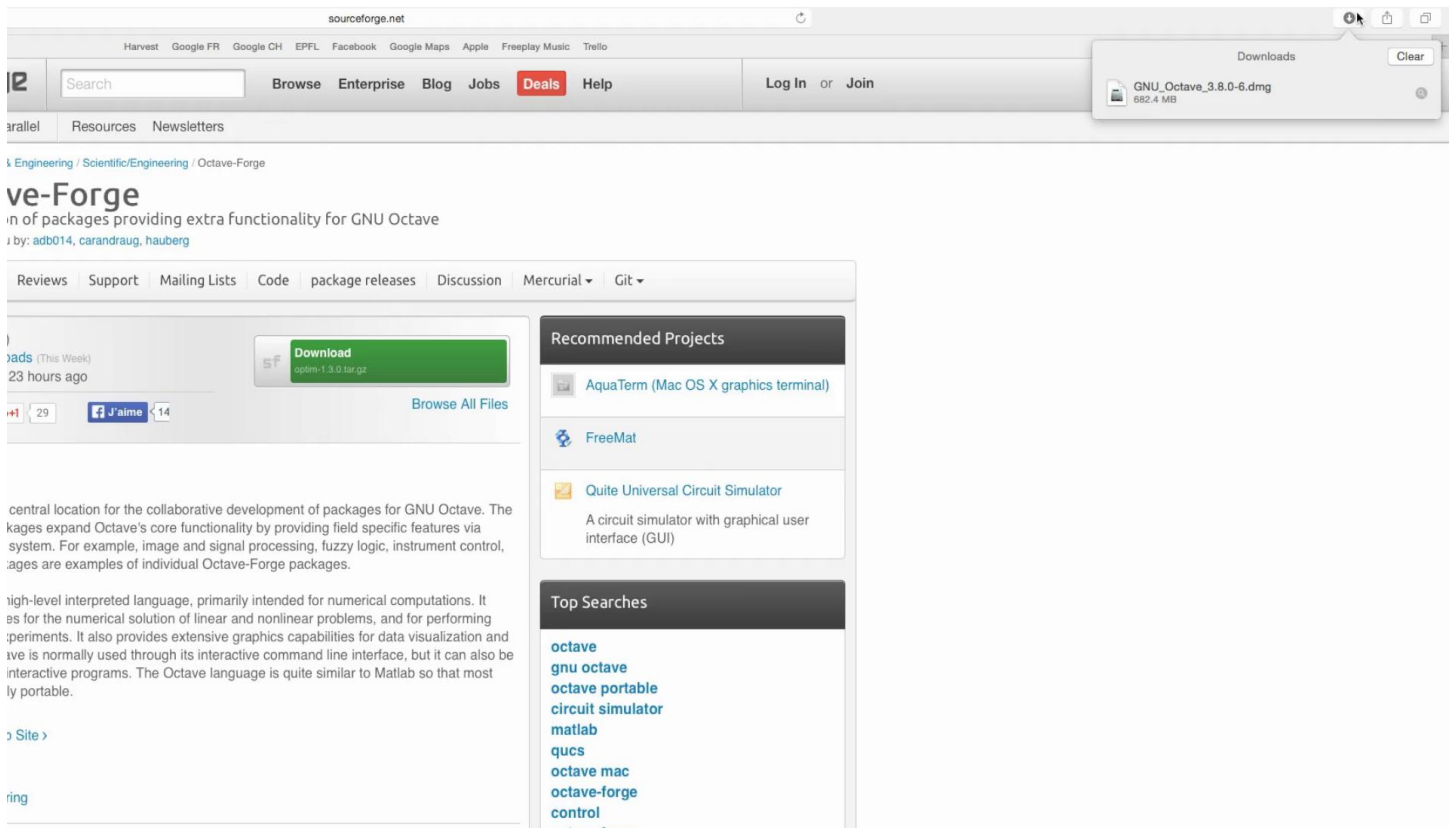
Summary

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Chapitre 1

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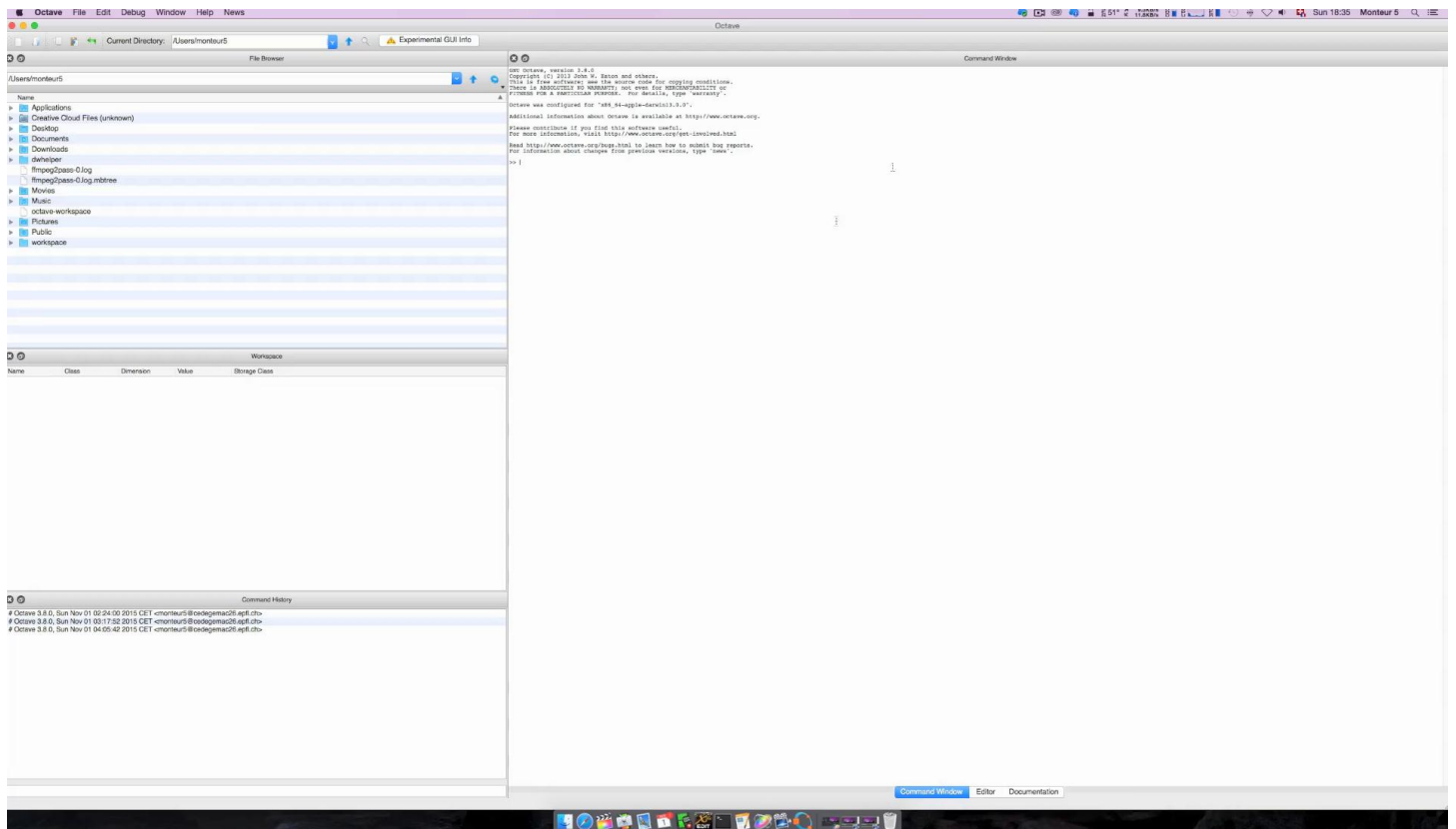


Il faut prendre "Octave 3806", c'est un paquet. D'abord, il va télécharger. Et à l'intérieur de cette binaire, on va avoir soit une application en ligne de commande, qu'on ne va pas particulièrement utiliser, ou la version (gui) avec une interface graphique, c'est celle-là que vous allez utiliser le plus souvent.

Notes

Summary





Le téléchargement est fini, vous pouvez aller dans le fichier de téléchargement et l'ouvrir explicitement. Il y a le fichier d'installation. Donc on va cliquer 2 fois sur le package, et là, on est prêt à l'installation. Il faudra mettre le mot de passe d'un utilisateur. Voilà, maintenant, Octave se trouve dans vos applications. Vous pouvez cliquer 2 fois pour l'ouvrir et l'avoir à disposition. Vous avez installé MATLAB et Octave, et vous êtes prêts à commencer à les utiliser.

Notes

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