

# Installation de PARI/GP 2.10.0

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# Introduction

Ce document indique comment installer la version [2.10.0](#) de PARI/GP qui sera utiliser pour l'initiation à PARI/GP lors de l'école jeunes chercheurs en théorie des nombres 2018 à Besançon.

## Windows users

Download a precompiled 64bit installer `Pari64-2-10-0.exe` or 32bit binary `Pari32-2-10-0.exe` from

`http://pari.math.u-bordeaux.fr/pub/pari/unstable/`

Also available are precompiled 64bit binary `gp64-gmp-2-10-0.exe` or 32bit binary `gp32-gmp-2-10-0.exe`.

## Mac OS users

Download a precompiled DMG

`PariGP-full-2.10.0.alpha.dmg` from

`http://pari.math.u-bordeaux.fr/pub/pari/unstable/`

on some system, you need to right-click on the icon and select open, so that you can bypass the security check.

Also available is a precompiled binary `gp-2.10.0-osx`.

## Linux users

To install all the packages required to build pari from source:

### Debian/Ubuntu

```
sudo apt-get build-dep pari
sudo apt-get install libreadline-dev libgmp-dev
```

### Fedora

```
sudo dnf install readline-devel gmp-devel
```

If you want to use git, also do

### Debian/Ubuntu

```
sudo apt-get install git bison
```

### Fedora

```
sudo dnf install git bison
```

## From source with GIT

Clone the PARI repository with GIT (~ 75MB).

```
git clone http://pari.math.u-bordeaux.fr/git/pari.git
cd pari
```

## From source without GIT

Download `pari-2.10.0.alpha.tar.gz` from

`http://pari.math.u-bordeaux.fr/pub/pari/unstable/`

and unpack it

```
tar xf pari-2.10.0.alpha.tar.gz
cd pari-2.10.0.alpha
```

## PARI compilation

```
./Configure --prefix=GPDIR --mt=pthread  
make -j4 gp  
make doc  
make statest-all  
make install  
make install-bin-sta  
./Configure --prefix=GPDIR.dbg -g  
make -j4 gp  
make install -C Olinux-x86_64.dbg  
GPDIR/bin/gp
```



## GP configuration

Create and customize `~/.gprc`. Add

```
histfile = "~/.gp_history"
colors = "lightbg" \\ or "darkbg"
lines = 40
parisizemax = 4G \\ or the maximum amount of memory
                \\ GP can use (important)
read "~/.gprc.gp"
```

Create an empty file `~/.gprc.gp`

## Updating GIT

To update GIT to the most recent revision:

```
git fetch
git rebase origin/master
./Configure -l
make install
```