

Scala from Home on Mac

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1 Introduction

This guide is for installing scala on Mac so it works on the command line (i.e. in a terminal). Any questions about it should be sent to the TAs at cs018tas@cs.brown.edu or brought to TA hours.

2 Step-by-Step guide

1. Goto scala-lang.org/downloads and download the most recent file for Mac, at this time of writing this is `scala-2.10.0.tgz`
2. Extract the `.tgz` file to `/User/your user name/` (i.e. your home directory). Some applications do this, and on the command line this can be done with

```
tar xf scala-2.10.0.tgz
```

3. Make sure the scala directory you extracted is in your home directory. Noqw you need to open the `.profile` file. This file is located in your home directory as well, and is invisible unless you specifically type in its path, which should be `/User/username/.profile` .
4. Inside this file, find the line that looks something like
`export PATH=stuffhere:$PATH`
Change this line to read:
`export PATH=/User/username/scala-2.10.0/bin:stuffhere:$PATH`

5. If that line did not exist, instead just add the line:
`export PATH=/User/username/scala-2.10.0/bin:$PATH`
at the bottom of the file.
6. Restart your terminal. You should now be able to run scala to get the REPL, or run scala on .scala files to run them as scripts.

3 Moving on to Eclipse

Before moving on, make sure you actually have scala installed on your computer and run the REPL to make sure scala is working. This section of the guide assumes that you do not yet have eclipse installed on your computer, and will guide you through both installing eclipse and adding scala to eclipse.

4 Installing Eclipse

1. Go to eclipse.org/downloads and download Eclipse Classic. You can download either 32 or 64 bit, utilize whichever one matches your computer. Note that eclipse depends on java, so your version of eclipse (32 or 64 bit) needs to match the version of java you have. Once you click on a link it will take you to a list of mirrors. Mirrors are locations that host the file for eclipse.org so it doesn't have everyone downloading from it at once. Generally, you can download from the link the website recommends which will be next to the green arrow.
2. Go read thedailywtf.com while the file downloads. The file download is about 150 MB. And that website is hilarious.
3. Unzip the zip file you just downloaded into a folder of your choice. For the sake of argument, you can put it into your user's home folder, but other places work as well. The file eclipse (the one with the eclipse icon) can be double clicked in windows explorer to launch eclipse.
4. (Optional) Create a shortcut to eclipse on your desktop by right-clicking on your desktop, going to New→Shortcut and browsing to the location of the eclipse application. This should create a clickable icon to open eclipse more easily.

5 Installing Scala in Eclipse

In CS18 we will support using Scala IDE eclipse plugin to help make coding scala easier. here are step-by-step instructions for installing Scala IDE. This outline is based on a video at scala-ide.org/download/current.html Which can be helpful if you want a video walkthrough.

1. Scala IDE is a plugin for eclipse. You should install it by going to Help→Install New Software
2. The popup window should indicate a field called "Work With:". Put What you put here depends on the version of eclipse you have. If you have:
Juno: <http://download.scala-ide.org/sdk/e38/scala210/dev/site/>
Indigo: <http://download.scala-ide.org/sdk/e37/scala210/dev/site/>

If you have Helios, the link is <http://download.scala-ide.org/sdk/e37/scala29/stable/site/> however that only supports scala 2.9.x and not scala 2.10.0 which we use in cs018. If you have Helios, you should consider upgrading to Juno.

6 Creating Scala Projects in Eclipse

Creating a scala project in Eclipse is relatively easy. Go to `file->new->project`. In the popup that appears go to Scala Wizards and click on Scala Project. Then click next. Give the project a new name, and click continue and finish. It might ask you to open the scala perspective, this is good and what you want. From here making new files, and packages is as expected for working with scala. If you have any trouble setting up Eclipse during this process, please email the TAs or come to TA hours.

Please let us know if you find any mistakes, inconsistencies, or confusing language in this or any other CS 18 document by filling out the anonymous feedback form:

<http://cs.brown.edu/courses/cs018/feedback>.