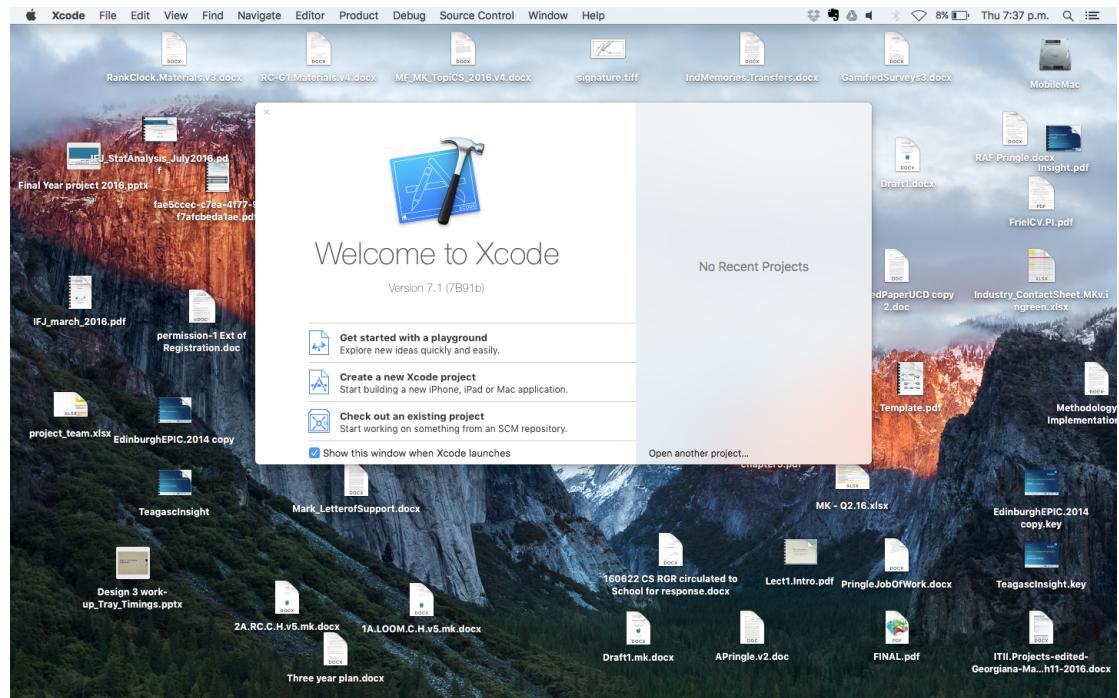
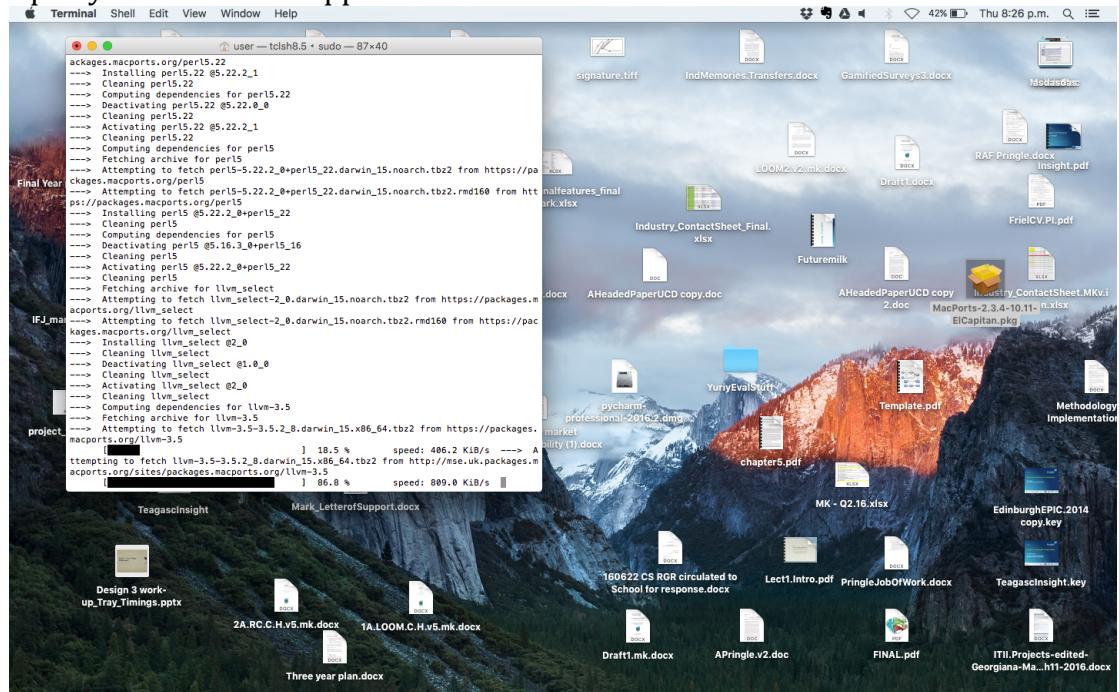


## Installing Ruby 2.3.1 on a Mac: Simple Method (using OSX 10.11)

- 1) Make sure you have **XCode** 7.0 or greater; find it in Applications and double click on it; when it opens; click on “Create Project” and save a project with some rubbish name (like test). Quit out of Xcode.



- 2) Open your **Terminal App**:



- 3) Make sure “Xcode Command Line Tools” are installed; in your **Terminal** App and write the following (note do not type <cr> this means press carriage return):

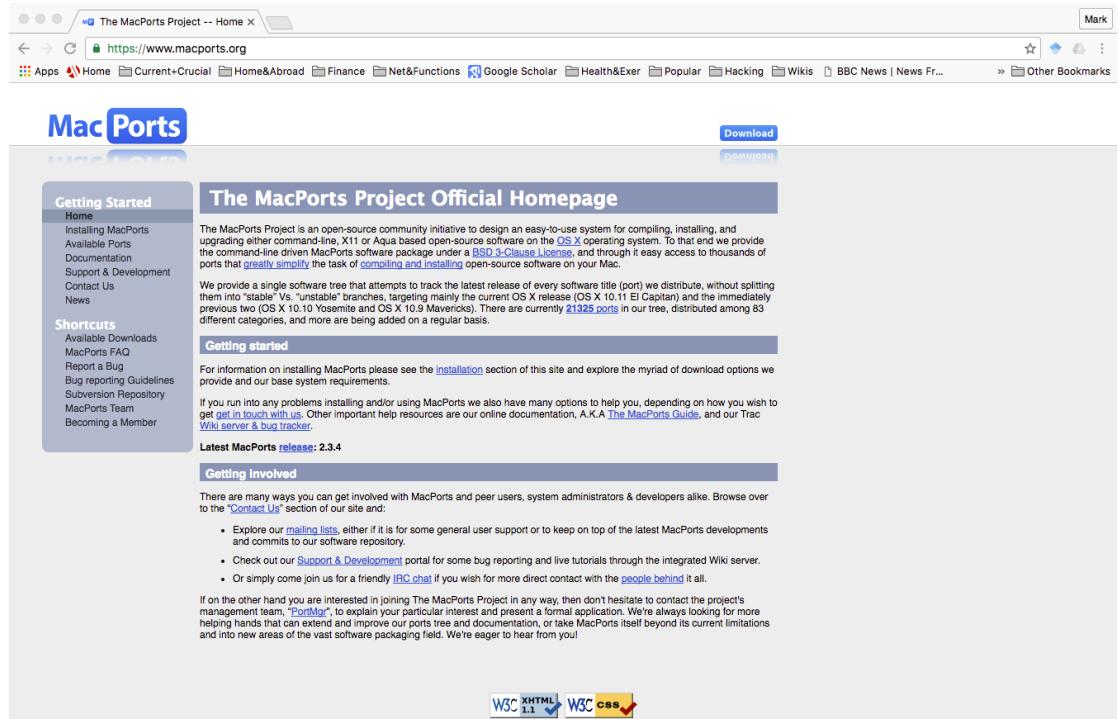
```
$ sudo xcode-select -install <cr>
```

[nb **sudo** may be required to ensure you have root priviledges]

[if you are not the root-user/administrator then you need to become it]

[for more see <http://railsapps.github.io/xcode-command-line-tools.html>]

- 4) Go to the MacPorts Site: [www.macports.org](https://www.macports.org) and download the Macports App (as .dmg) that is appropriate to your MacOS X (in this case MacPorts El Capitan); Install this application via the dialoue boxes.



- 5) Open your Terminal App again and get a Basic Window; after the prompt write:

```
$ ruby -v <cr>
ruby 2.0.0p645 (2015-04-13 revision 50299)
[universal.x86_64-darwin15]
```

This is showing you that you have the pre-loaded version of ruby. But, we want Ruby 2.3.1;

so, write this:

```
$ port search ruby23 <cr>
    ruby23 @2.3.1_1 (lang, ruby)

$ sudo port install ruby23 <cr>
Password: <enter your password>
--> Fetching archive for gperf
--> Attempting to fetch gperf
...it continue to install ruby2.3.1 taking some time
... when it finishes do this...

$ ruby2.3 -v <cr>
ruby 2.3.1p645 (2015-04-13 revision 50299)
[universal.x86_64-darwin15]

$ alias ruby='/opt/local/bin/ruby2.3'<cr>
$
$ruby -v
ruby 2.3.1p112 (2016-04-26 revision 54768) [x86_64-
darwin15]
```

Now, you should be ready to use it.