Tutorial-Rails: Installation and Setup of Ruby and Rails

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Warning: Installation can be quite time consuming as each system/laptop has a slightly different environment and you may have to install some software in addition to those listed below. Get started with this soon and contact the TAs if you have questions.

Prerequisites
1. A laptop (or a desktop) with Windows 7, Mac OS X, or Linux (Ubuntu 12.04) installed.
2. If you plan to work on athena, that should work too. But please email us and let us know immediately.

Goals of this Tutorial
1. Install Ruby and also Rails on your computer.
2. Start the default Rails app to verify that it works locally.

Step 1: For Windows Users Only - Install Ruby and Rails
Note: We discourage using Windows for Ruby on Rails development. Use OSX or Ubuntu if you can. You can use Virtualbox to install Ubuntu if you like.

Ruby Installation
Install the latest version of Ruby (2.0.0) by downloading the installer from http://rubyinstaller.org/downloads/. Though Ruby 2.0.0 is preferred, Ruby 1.9.3 is very similar and should suffice.

These are the official Ruby installers for Windows systems. After downloading, double-click on it and follow the wizard. Using the default options will be fine. After the install, add the bin directory to your path environment variable (Default options => add “C:\Ruby193\bin” to system Path variable).

DevKit Installation
● Download and install the DevKit from: http://rubyinstaller.org/downloads
● Follow the instructions at: http://github.com/oneclick/rubyinstaller/wiki/Development-kit

Rails Installation
Open the command prompt window and install rails by executing the command: “gem install rails”. This installs Rails and the dependent gems. (“Gems” are ruby packages/libraries)

Step 1: For Mac OS X Users Only - Install Ruby and Rails
Make sure XCode is installed, we will need the gcc compiler and it comes with a plethora of command line tools. Expect to run into a lot of issues, set aside substantial time to install
Ruby/Rails. Contact TAs with your questions.

_The Long_
Follow instructions at:

_The Short_
Install RVM
Note: Be sure you have the XCode Command Line Tools: App Store → XCode → Preferences → Downloads → Command Line Tools
$ curl -L https://get.rvm.io | bash -s stable
$ rvm get head && rvm reload
Note: Make sure you have gcc-4.2 with `which gcc-4.2`

Install Ruby
$ rvm install 2.0.0
$ rvm use 2.0.0 --default
$ rvm install 1.9.3 # optional

Create a Gemset
$ rvm gemset create example-gemset
$ rvm gemset list # to see gemsets
$ rvm gemset use example-gemset

Install the Rails Gem (while using example-gemset).
$ gem install rails -v 4.0 --no-ri --no-rdoc
$ gem list # see all gems in the gemset, including Rails 4.0.0

Note: If you don’t have the gem command (“which gem” shows nothing), install RubyGems as described [here](http://rubyforge.org/frs/?group_id=126).

**Note:** If you encounter the error “There has been an error while running make. Halting the installation,” install HomeBrew. [http://brew.sh/](http://brew.sh/)

**Step 1: For Linux (Ubuntu 12.04) Users Only - Install Ruby and Rails**
Follow instructions at:
[http://blog.sudobits.com/2012/05/02/how-to-install-ruby-on-rails-in-ubuntu-12-04-lts/](http://blog.sudobits.com/2012/05/02/how-to-install-ruby-on-rails-in-ubuntu-12-04-lts/)

**Step 2: Testing Rails Installation**
Test rails is installed: open a command window and go to the directory you want your projects
and run the following command:

$ rails new helloworld

This command will create a new directory named “helloworld” and bunch of directories like “app”, “config” “db”, “doc”, “lib”, “log” etc under it. You will become very familiar with these directories and their contents over the course of the semester.

Start the web server by running the following commands in a terminal window:

$ cd helloworld
$ rails server

You should see an output line like: “WEBrick::HTTPServer#start: pid=3433 port=3000” which confirms that the web server is started. Now open your web browser and go to “http://127.0.0.1:3000/”. If you see the “Welcome aboard” page, Ruby on Rails is successfully installed on your computer!

Congrats! You’re ready to go with Ruby and Rails. Next see the tutorial-git.
Additional Notes:

1. An excellent tutorial for installing RoR on Mac is available at:

2. For Windows,
   a. Download and install the DevKit from: http://rubyinstaller.org/downloads
   b. Follow the instructions at: