

As part of GRITS 2010, we will be having a Ruby on Rails (ROR) training session. If you've already signed up for the class check that your name is on the attendee list at the bottom. It's important that you read the information below, since you'll need it to be ready for the class.

Specifically, YOU NEED TO INSTALL SOFTWARE BEFORE THE CLASS, so if you can't do this, you shouldn't attend. If you won't be able to attend for some reason, please let us know; there's a waiting list of people who want to get in.

Also, in order to tailor the class, Casey (the instructor, CC'd on this email) has asked that you tell him about your programming background, showing the languages in which you've programmed and how many years experience you have with them, e.g.:

C++, 5 years
Perl, 8 years
Java, 2 years

and not:

English, 30 years
A little Spanish, 2 years (high school)

Here are the logistical details about the class; the software installation instructions; class attendees' list

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WHEN: June 9th 8:00am - 5:00pm (or until the wheels fall off)

WHERE: Morrisroe RM 102 (Large Conference Room)

AGENDA:

Welcome to Ruby

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PREREQUISITE:

You must come to class with a working copy of RoR on your laptop. Following are instructions to get RoR installed on a Linux or Mac. Please do not bring any windows laptops to class. You will be shunned and forced to work from the hallway if you do.

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INSTALLATION INSTRUCTIONS

I. Macintosh:

These instructions are for Leopard or Snow Leopard Macs. Tiger does not come with RoR installed, and getting it installed is not an easy process. We suggest you beg, borrow or steal a Leopard Mac for class.

1) Install the Apple Developer Tools, aka Xcode. These tools are required to compile some Ruby software (don't worry --- it's not that crazy UNIX compiling, but compiling the Ruby way...). If you have the Apple CDs that came with your laptop, the Xcode can be installed from "Mac OS X Install Disc 2". Pop that CD in your laptop, open the folder called "Xcode Tools", and then open

the meta package "XcodeTools.mpkg" ("XcodeTools" if you have file extensions turned off).

If you don't have the Apple CDs, you can sign up for a free at Apple as a "Developer" and download Xcode from there: <http://developer.apple.com/technologies/xcode.html>

If you're located at IPAC you can download the developer tools from here:

<afp://panthro.ipac.caltech.edu/IPACmac>

Use your LDAP username and password to mount this Apple Share. (If you use Mac Mail, you can click the link to initiate the mount. If you use a 3rd party client such as thunderbird, then from Finder click "Go" > "Connect to Server")

2) Install GIT. Download the latest version of GIT from here:

<http://code.google.com/p/git-osx-installer/downloads/list>

(If you're using an old PPC laptop with Leopard, be sure to download the "universal binary" for GIT, git-1.6.5.1-UNIVERSALbinary-leopard.dmg)

3) After the Xcode Tools and GIT have been installed, the rest is "cut n paste" from the commands below. Don't copy the "\$" signs, just the commands after them.

a) Open Terminal

b) Update the currently installed gem software

```
$ sudo gem update --system
```

c) Update the currently installed gems (this could take several minutes)

```
$ sudo gem update
```

d) Install the rvm gem

```
$ sudo gem install rvm
```

e) Install rvm

```
$ rvm-install
```

4) RVM requires you to update your .bash_profile...

a) Place the following line at the end of your shell's startup files(.bashrc or .bash_profile for bash and .zshrc for zsh), after all path/variable settings:

```
if [[ -s /Users/admin/.rvm/scripts/rvm ]] ; then source /Users/ admin/.rvm/scripts/rvm ; fi
```

Use your favorite text editor to update (or create if one does not exist) the /Users/_YourUserName/.bash_profile file. Add the line above to the end of the file. Save and exit.

b) Quit Terminal

Open Terminal (So it will read your new/updated .bash_profile file)

c) Update rvm software

```
$ rvm update
```

d) Install Ruby 1.9.1

```
$ rvm install ruby-1.9.1
```

e) Switch to Ruby 1.9.1

```
$ rvm use ruby-1.9.1
```

f) Install Rails 3.0 (currently in beta, but very close to release)

```
$ gem install rails --pre
```

Note for SNOW LEOPARD: We found there was a compile error when installing ruby-1.9.1 (\$ rvm install ruby-1.9.1) on SNOW LEOPARD.

The file /usr/local/lib/libstdc++.6.dylib is not a universal binary library and is being sourced first. This file seems to exist on some snow leopard boxes but not others, and we don't know why, or which package puts it there.

To correct this issue, you can rename the file to back it up

```
$ sudo mv /usr/local/lib/libstdc++.6.dylib /usr/local/lib/libstdc++.6.dylib.original
```

Then link in the correct library from the Developer tools

```
$sudo ln -s /Developer/SDKs/MacOSX10.6.sdk/usr/lib/libstdc++.6.dylib  
/usr/local/lib/libstdc++.6.dylib
```

Now you can continue to install RoR

```
$ rvm install ruby-1.9.1
```

Congratulations you are now ready for the RoR class at GRITS!

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II Linux:

For Linux you'll need to be running something fairly new (no older than 2 years) in the flavor of Ubuntu, Fedora or Debian. You'll either be using YUM or APT to install the base software --- both versions are given below, just pick the appropriate one. After that you'll use the gem and rvm commands to install the rest. Its important that you do NOT use the root account for this process; use a regular user account with sudo.

1) Open a Terminal

a) Install the base packages for Ruby and GIT

APT:

```
$ sudo apt-get install ruby ruby-devel rubygems git zlib-devel
```

-OR-

YUM:

```
$ sudo yum install ruby ruby-devel rubygems git zlib-devel
```

b) Update the gem software

```
$ sudo gem update --system
```

c) Update the installed gems

```
$ sudo gem update
```

d) Install rvm gem

```
$ sudo gem install rvm
```

e) Install rvm package

```
$ sudo rvm-install
```

2) RVM requires you to update your .bash_profile...

a) Place the following line at the end of your shell's startup files (.bashrc or .bash_profile for bash and .zshrc for zsh), after all path/variable settings:

```
if [[ -s /Users/admin/.rvm/scripts/rvm ]] ; then source /Users/admin/.rvm/scripts/rvm ; fi
```

Use your favorite text editor to update (or create if one does not exist) the /home/_YourUserName/.bash_profile file. Add the line above to the end of the file. Save and exit.

b) Exit the terminal

Open a new terminal (So it will read your new/updated .bash_profile file)

c) Update the rvm software

```
$ sudo rvm update
```

d) Install Ruby 1.9.1

```
$ sudo rvm install ruby-1.9.1
```

e) Switch to Ruby 1.9.1

```
$ rvm use ruby-1.9.1
```

f) Install Rails 3.0 (currently in beta, but very close to release)

```
$ gem install rails --pre
```

Congratulations you are now ready for the RoR class at GRITS!

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