Ruby

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Installing Ruby

Windows: http://www.stanford.edu/~ouster/cgi-bin/cs142-spring12/railsInstall.php

Linux/Mac:

- 1. bash -s stable < <(curl -s https://raw.github.com/wayneesequin/rvm/master/binscripts/rvm-installer)
- 2. echo '[[-s "\$HOME/.rvm/scripts/rvm"]] && . "\$HOME/.rvm/scripts/rvm" # Load RVM function' >> ~/.bash_profile
- 3. source ~/.bash_profile
- 4. rvm install 1.9.2
- 5. rvm use 1.9.2 --default
- 6. gem install rails -v 3.2.1
- 7. gem install sqlite3-ruby

Running Ruby

- Running from Terminal
 - ruby program.rb
- Interactive Ruby (Ruby Shell environment)
 - run any ruby code on the ruby shell, or
 - load a ruby program -- load 'program.rb'
- IDEs (Netbeans) -- Windows/Linux/Mac OS
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Ruby Basics

- Scripting Language
- Pure Object Oriented
- Facilities for Meta-programming

Ruby Object Oriented Features

- Class
 - Instance Variables/Methods
 - Class Variables/Methods
- Inheritance
- Modules
- Files
 - ruby-oop/*.rb

Iterators, blocks and yield

- defining new control structures with iterators
- blocks
- yield
 - yield more than one value
- Files
 - ruby-control/*.rb

Ruby Meta-programming facilities

- create a new program on the fly and execute them
 - eval
- adding a method to a class on-the-fly
 - method_missing
- adding a method to a module on-the-fly
- eval vs. class_eval
- Files
 - ruby-meta-programming/*.rb

Ruby -- regex and hash

- hash
- regex
- Files
 - ruby-others/*.rb

Questions