



Ruby

Week 5





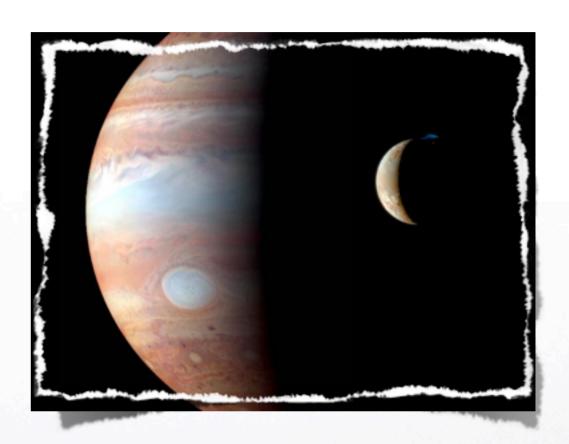
Homework Review

Worker Spec



+ | -

- Input and Output
- Reading in, Writing out
- Working with the external (real!) world







Files

- file = File.open("test_file", "r+")
- "r" Read-only, starts at beginning of file (default)
- "r+" Read-write, starts at beginning of file
- "w" Write-only, truncates existing file to zero length or creates a new file for writing
- "w+" Read-write, truncates existing file to zero length or creates a new file for reading and writing



Files with Blocks

- File.open("test_file", "r+") do |r|
 - r << "Add some text"
- end
- f = File.open("roster.txt")
- f.each{ |line| puts line}
- f.map{|line| line.split(',').first}





Files

- f = File.open("roster.txt")
- f.gets (get a line)
- f.pos (character position)
- f.rewind (pos = 0)
- f.read (file as a string)
- f.readlines (array of each line as a string)



Directories

- Dir.pwd
- Dir.chdir("..")
- All files: Dir["*"] All hidden files: Dir[".*"]
- d = Dir.new(".")
- Dir.mkdir("test")
- d.entries
- d.count
- d.each{|f| puts f}





Rakefile

- Ruby Make
- Ruby scripting
- Ordered Tasks (configuration!)





Rake tasks

- task :name => [:dependency] do
 - <ruby code>
- end





Exercise

- Create a task that reads all the lines in names and outputs them
- Create a task that creates a class directory
- Create a task dependent on the class directory task that makes a directory in the class directory for each name in names



RegExp!

Regular Expressions in Ruby





Patterns

Find a pattern in text





Use

- Test a String
- Change a String





/find me/ - Testing

- "Hello World" =~ /World/
- pattern = /World/
- pattern.match "Hello World"





sub / gsub - Changing

- sub(/pattern/, "text") replace the first
- gsub(/pattern/, "text") replace all





Rubular

http://www.rubular.com/





TitleCase, snake_case

- "this is supposed to be a title".gsub(/\b\w/) { | w| w.upcase}
- "this should be a snake case".gsub(/\b\W/){ |
 b| '_'}





Homework

- Do the midterm!
- Ask me questions!





Review

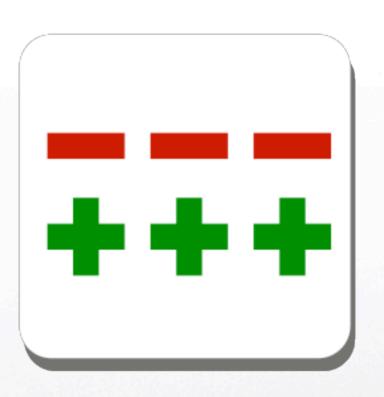
- Git
- Objects
- RSpec
- Complex Data





Git

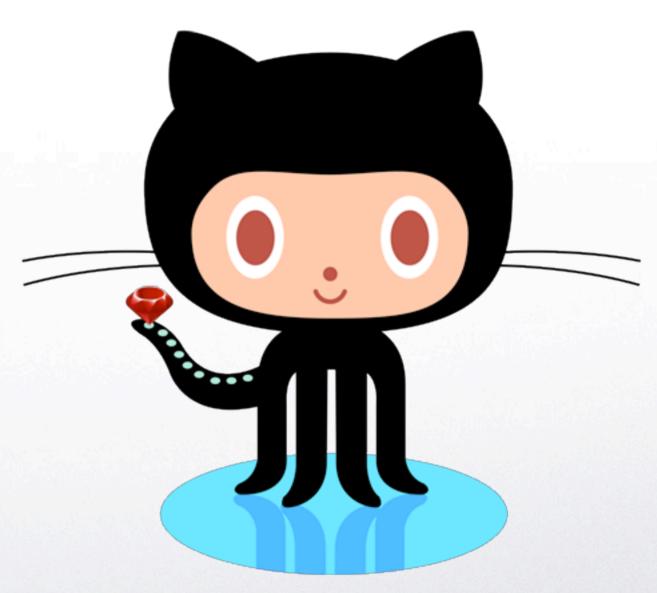
- git init
- git add
- git commit
- git log
- .gitignore





Github / Git Remotes

- Fork
- Pull Request
- git remote
- git clone
- git branch (grb)







Objects

- new / initialize
- method signatures
- relationships







RSpec

- describe
- it
- matchers





Relationship between our code and RSpec