

Ruby

Week 2



Agenda

- Homework Review and Submission
- Git Branches
- The Ruby Language
- Ruby Gems (`grb`)
- IRB: String objects, String Class, Variables, `puts/gets`
- Making Our Own Objects

HomeWork Review

- Questions.txt
- strings_and_rspec_spec.rb
- Send a Pull Request to [UWE-Ruby/RubyFall2013](#)

Git Review

- GitHub
- forks and repos (remote & local)
- branches (DeMo!)

Rspec Review

- Code that Tests Code!!
- Describe a feature, set an expectation.
- Red-Green-Refactor

Ruby

- Everything is an `Object`!
- `Type` Doesn't matter! (`respond_to?`)
- Speaking Ruby : `Interpreter` Needed!
 - MRI, `YARV`, JRuby

Ruby Gems

- Packaged Ruby Code
- Open Source
- iPhone user: “There’s an app for that!”
- Ruby programmer: “There’s a `gem` for that!”

GRB

- Git Remote Branch
- Ruby Gem to help with git!
- Combines remote branch steps into one!
- DeMo!

IRB

- Interactive Ruby!
- Our Ruby *Interpreter*!
- We speak ruby, it translates!
- Understand Ruby code, evaluates it, gives us the result (*inspect*)

Ruby

- Everything evaluates to something
- `nil` is NULL or nothing or Not Set
- Every Object `respond_to?` `inspect`
 - `=> true`

Objects

- **Ruby**: everything is an object
 - Everything is an **instance** of a class
- Ruby knows about certain classes of things: **Standard Library**

String

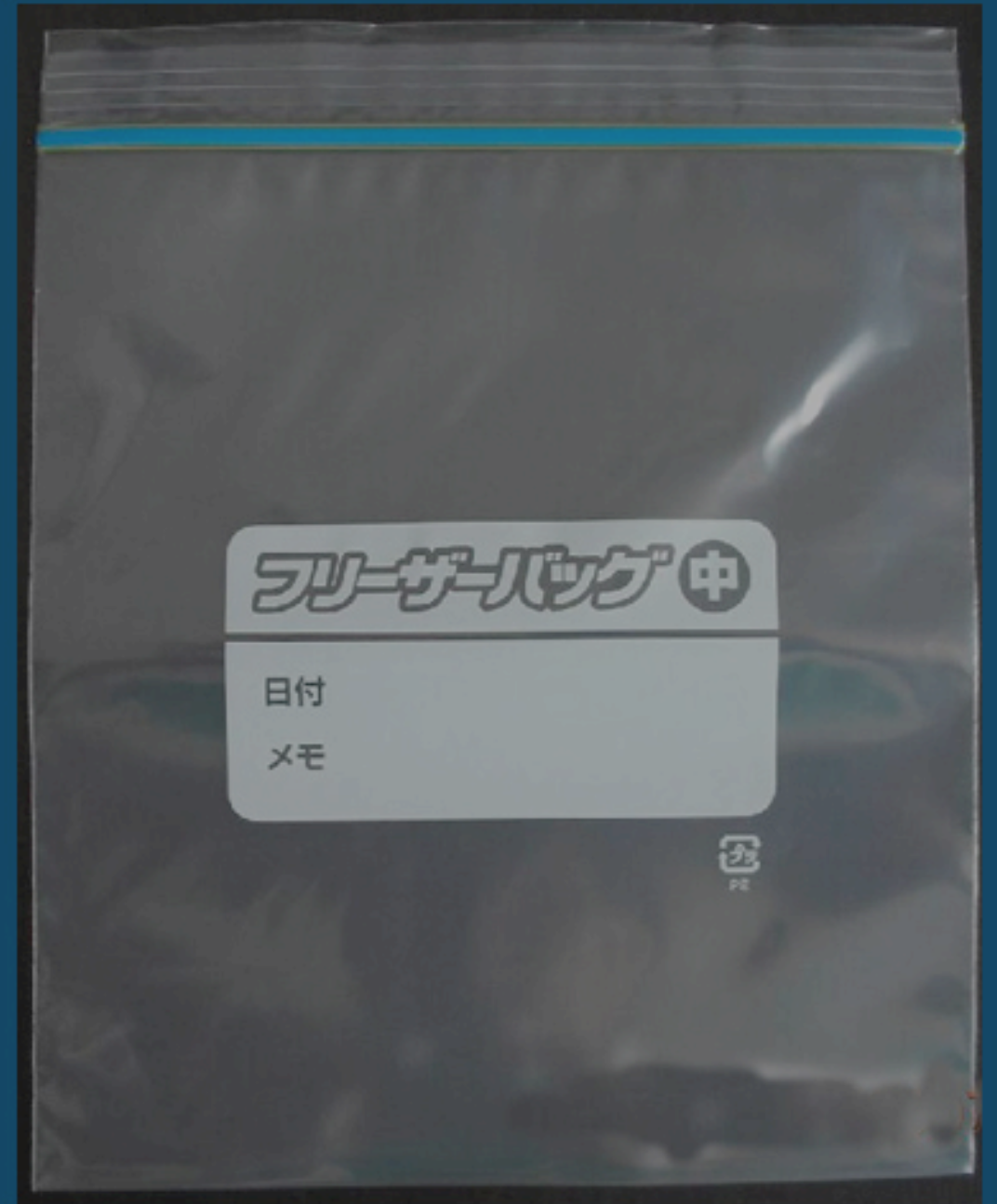
- String class : part of the standard library
- How Ruby understands text
- Instances
 - String.new or ' ' or "" or Q%[]
or q%[]

String Class

- <http://www.ruby-doc.org/core-1.9.3/String.html>
- Methods : Messages we can send, what an instance will respond to
- Chomp, *, +, include?, upcase

Variables

- Named location
- Points to something
- Contents Can Change



String Interpolation

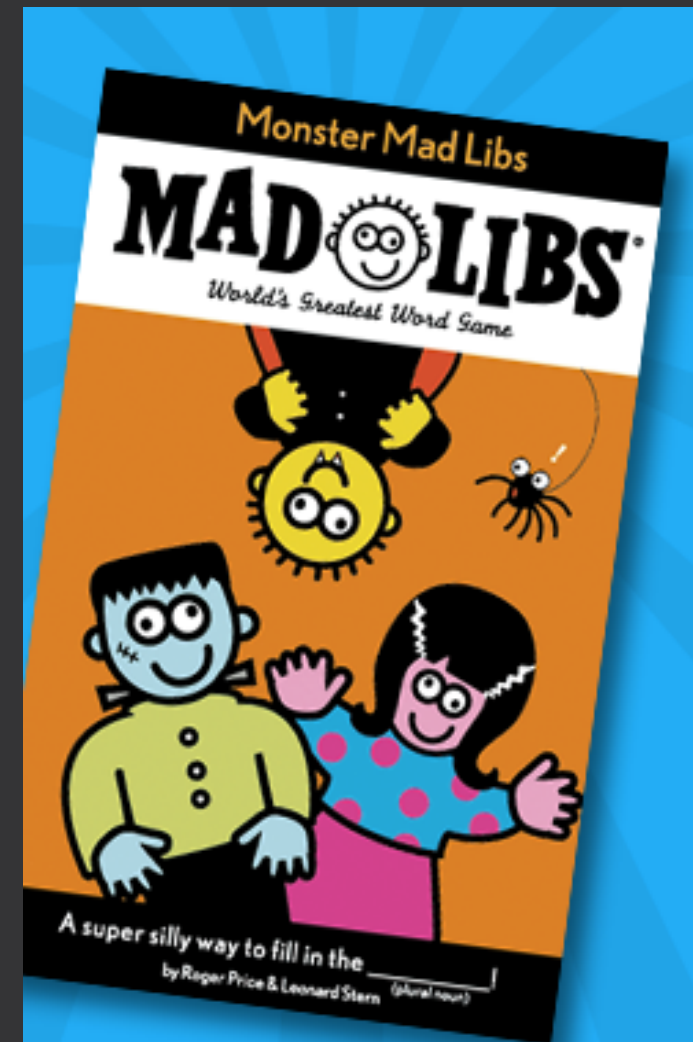
- `my_name = "Renée"`
- `"Hello #{my_name}"`

puts / gets

- `put string`
- `get string`
- `puts "Hello World"`
- `user_input = gets`
- `user_input = gets.chomp`

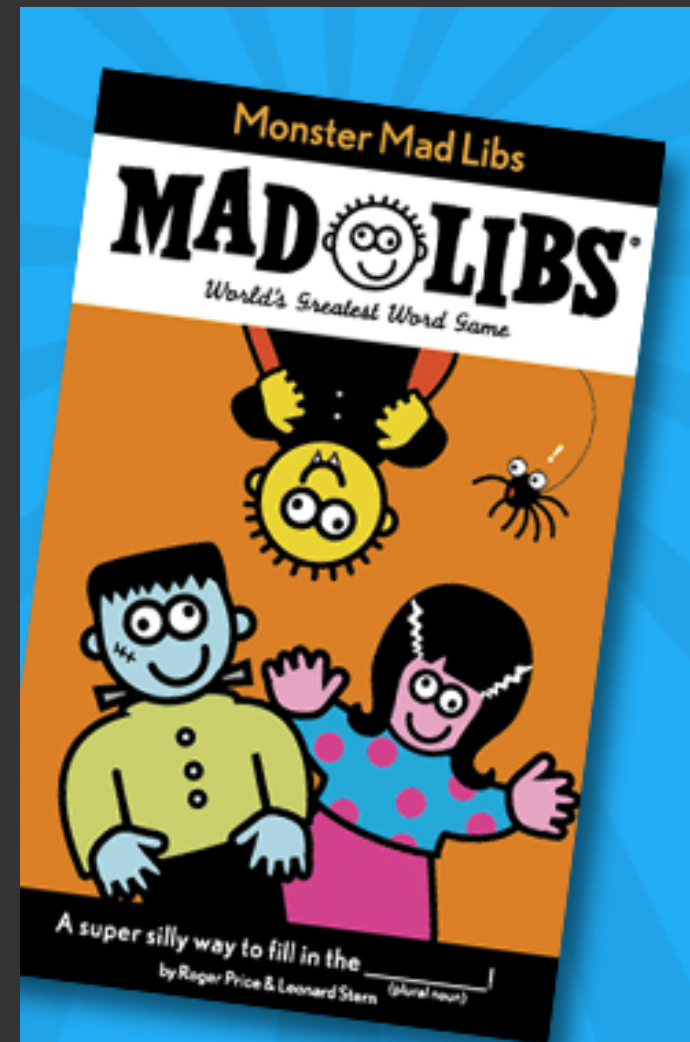
Mad-Libs!

- `noun = gets.chomp`
- `adjective = gets.chomp`
- `verb_past_tense = gets.chomp`
- “The `{adjective}` `{noun}` `{verb_past_tense}` past the graveyard”



Ruby Scripts

- `mad_libs.rb`
- `ruby mad_libs.rb`



Making Objects

- Tell Ruby About Something New!
- A new class of stuff!

What is a Book

- All Books have....??

Defining New Classes

- Initialize
- attributes / readers and writers
- Scope
 - Instance variables
 - Instance methods

Homework

- Reading and Simon Says Spec