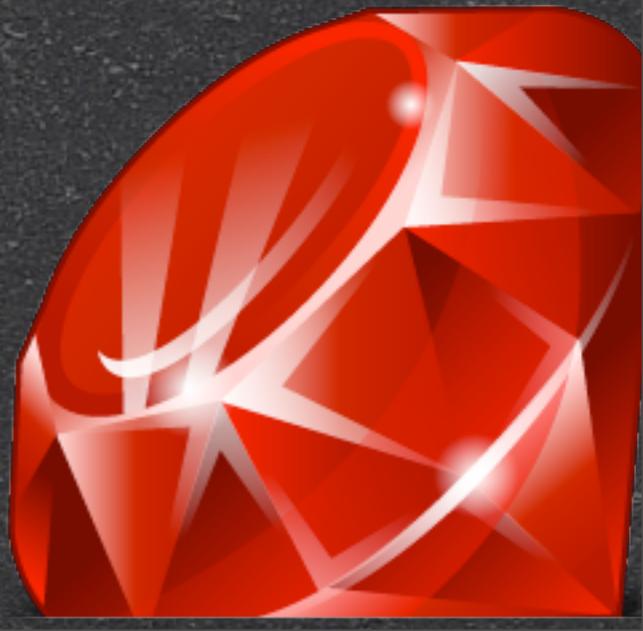


Ruby

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 programer: “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

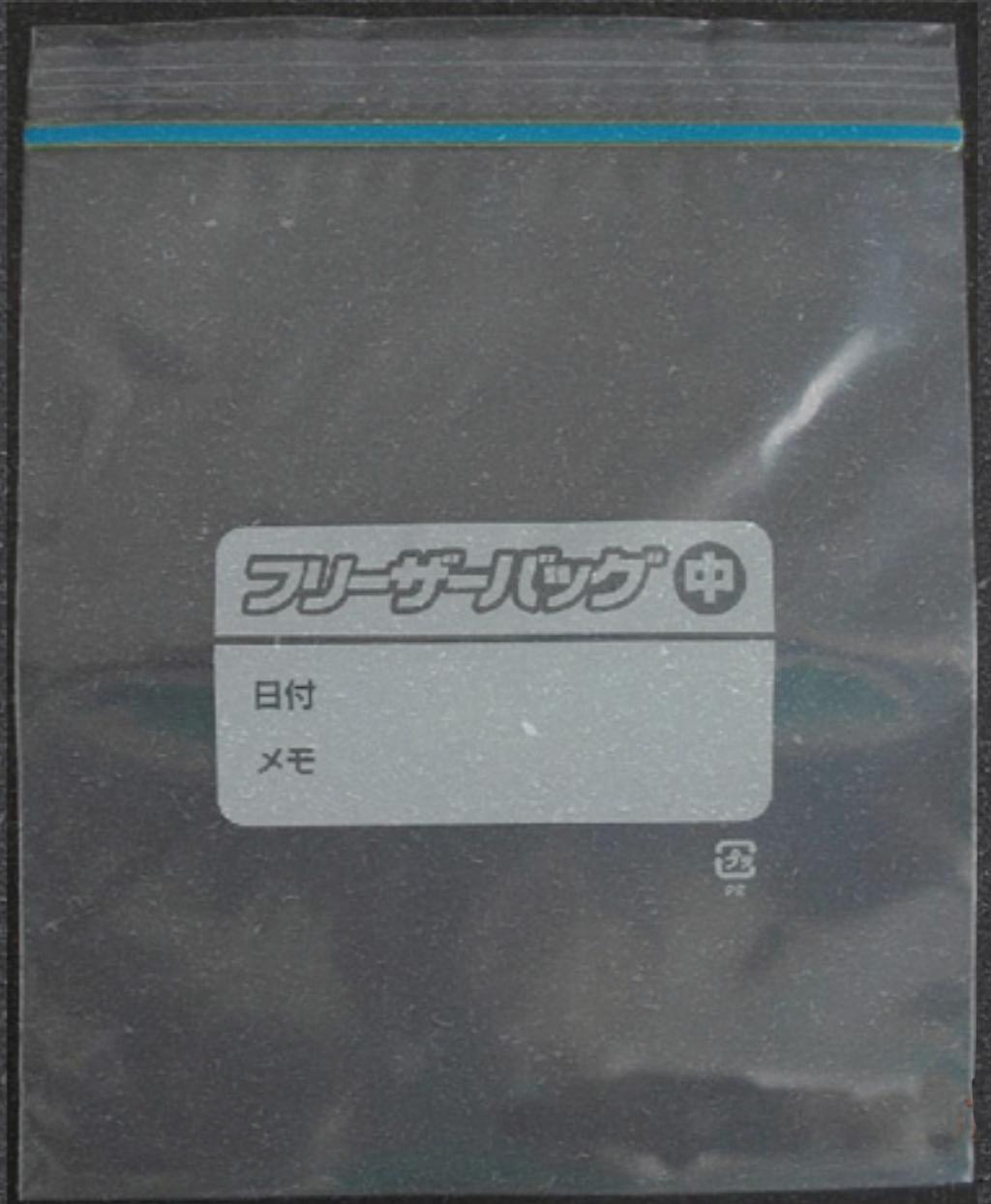
- String class : part of the standard library
- How Ruby understands text
- Instances
 - `String.new` or `''` or `""` or `Q%[]` or `q%[]`

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

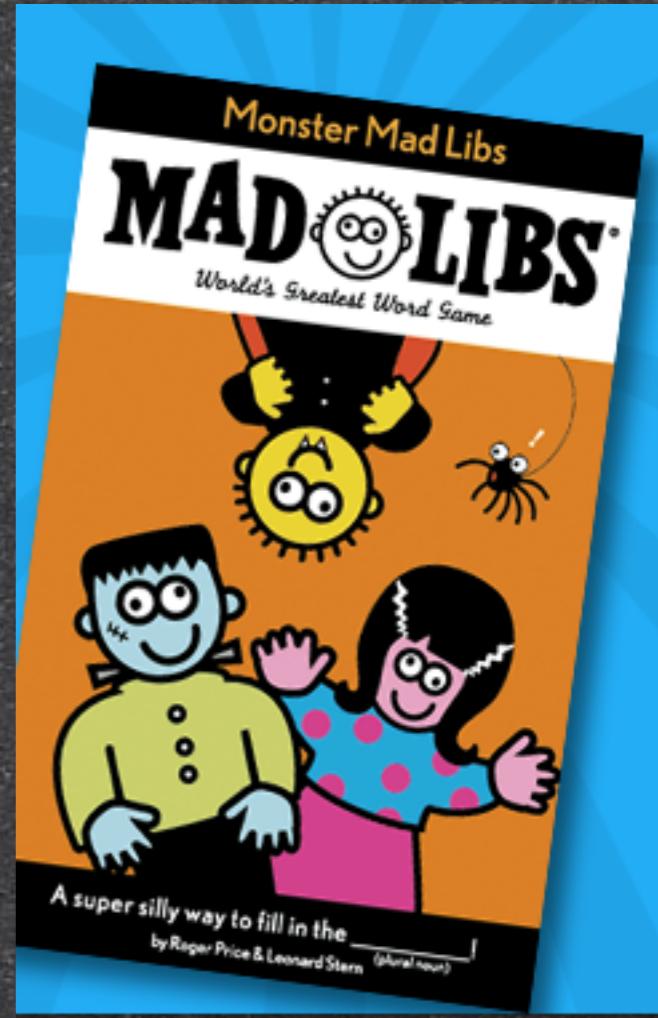
```
❷ my_name = “Renée”  
❸ “Hello #{my_name}”
```

puts / gets

- put string
- get string
- puts “Hello World”
- user_input = gets
- user_input = gets.chomp

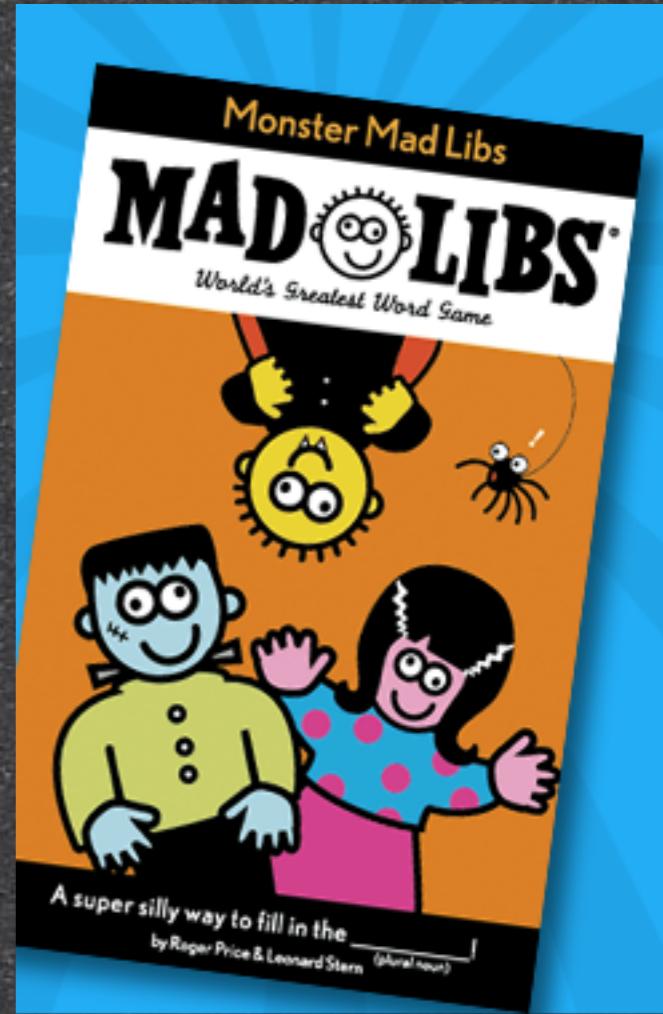
Mad-Libs!

- 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