



INTRO TO RUBY ON RAILS



Jonathan Young

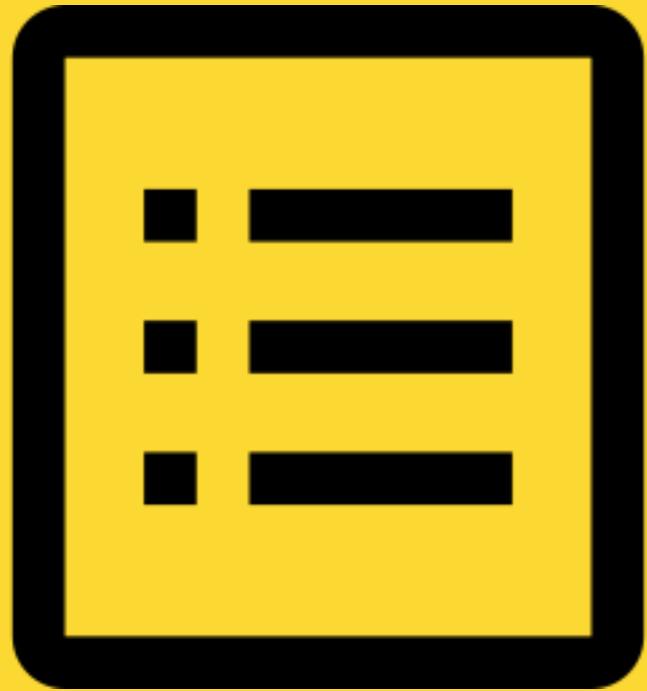
HELLO!

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- ▶ Part-time instructor for General Assembly
- ▶ Teach for America alumnus
- ▶ Northwestern University grad
- ▶ Coding bootcamp grad

AGENDA - DAY 1



- ▶ How the Internet works
- ▶ Command Line Basics
- ▶ Git / Github
- ▶ Ruby basics

AGENDA - DAY 2

- ▶ MVC for web apps
- ▶ HTML — Building blocks
- ▶ Ruby on Rails
- ▶ Creating our first web app
- ▶ Deploying our first app to Heroku



DAY 1 - RUBY ON RAILS BASICS

INSTALLATION AND SETUP



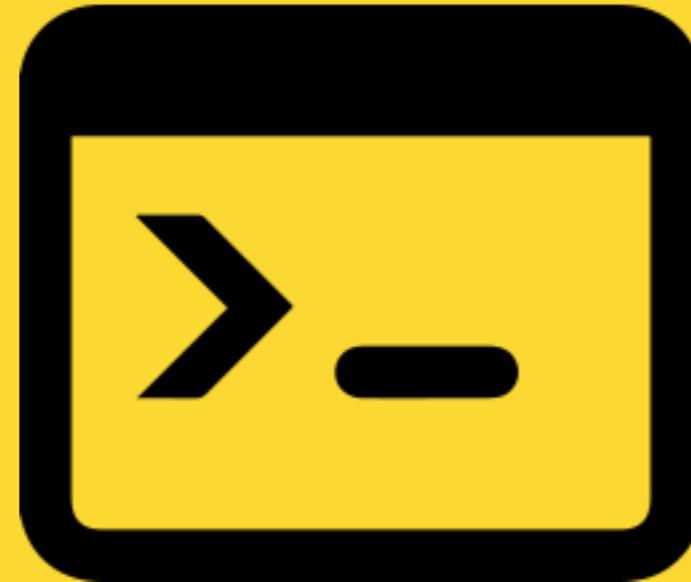
CHECK FOR INSTALLATIONS

DO YOU HAVE THE FOLLOWING INSTALLED?

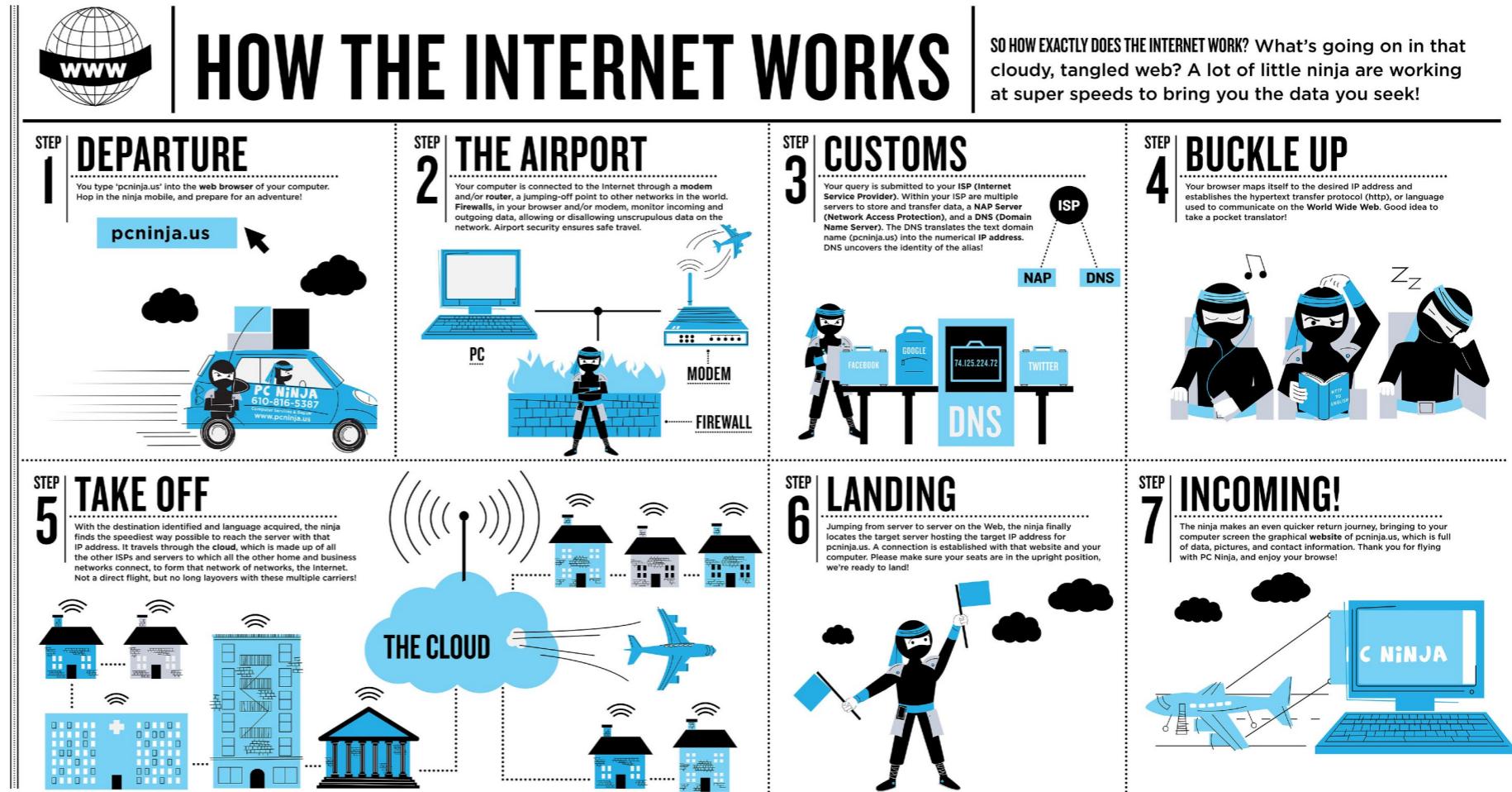
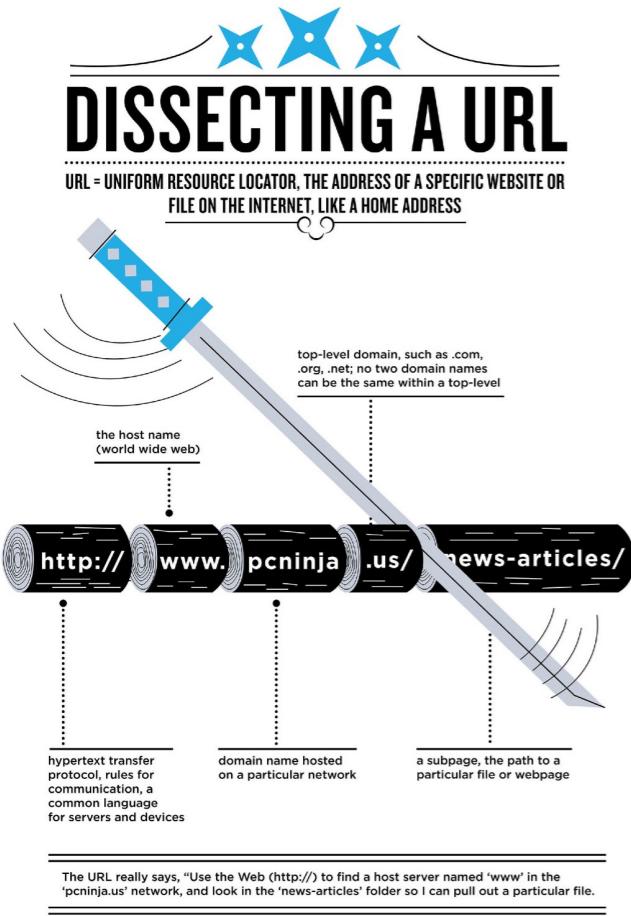
- ▶ Sublime Text 2
- ▶ Ruby (either rvm or rbenv) through the links provided by Christa
- ▶ Rails 4 or higher
- ▶ iTerm (optional - can use Terminal)
- ▶ Git
- ▶ A Github account

DAY 1 - THE INTERNET

HOW DOES THE INTERNET WORK?



A BROAD OVERVIEW

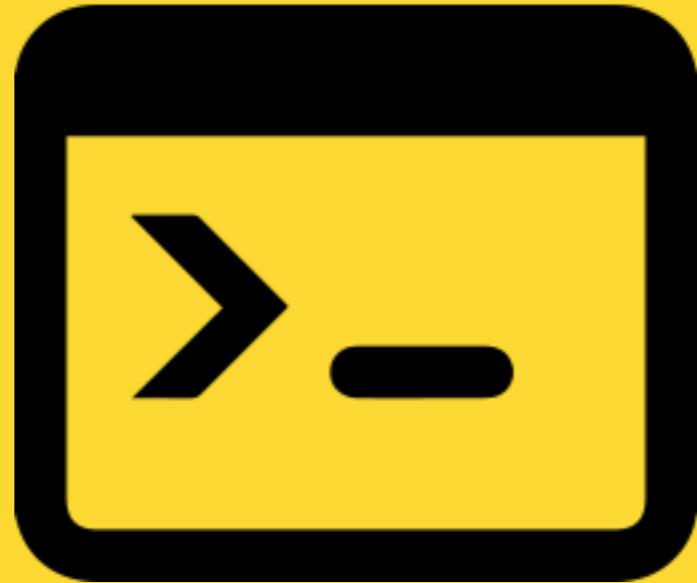


A BROAD OVERVIEW - WHAT YOU NEED TO KNOW

- ▶ You make a request by typing in a URL
- ▶ URL != letters but URL == numbers (IP address)
- ▶ www.google.com is actually 64.233.160.0 (one of their many IP addresses)
- ▶ ISP + DNS finds what server (computer) that IP address lives on
- ▶ Important to note: the “cloud” is actually someone else’s computer. Nothing else.
- ▶ The server will accept your request and if everything looks good, it will return you a response that your ISP will relay back to your screen

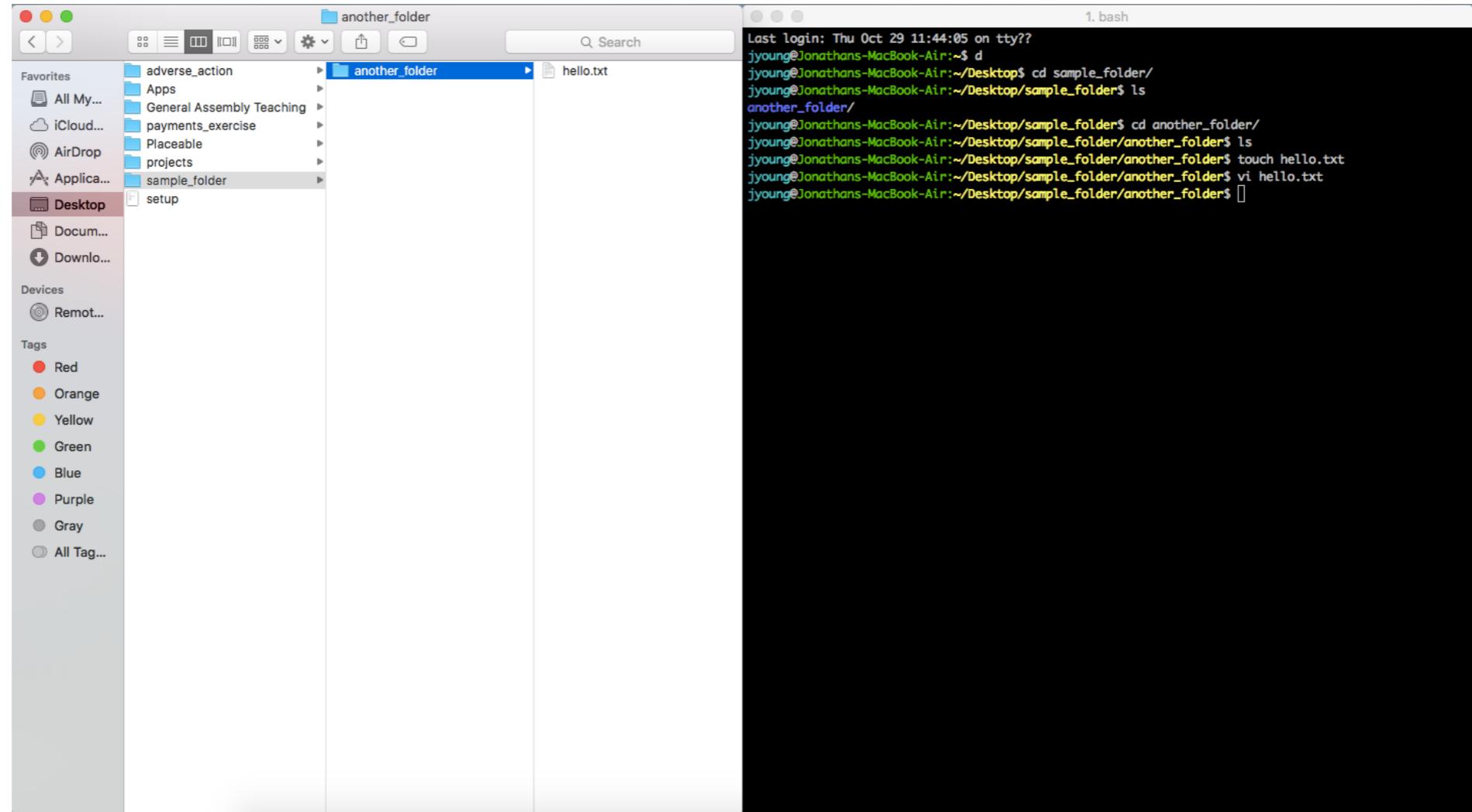
DAY 1 - RUBY ON RAILS BASICS

THE COMMAND LINE



THE COMMAND LINE

Non-Developer Workflow Developer Workflow



WHAT CAN I DO WITH THE COMMAND LINE?

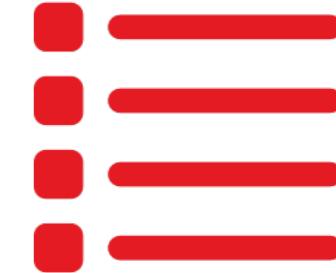
ADD FOLDER



REMOVE FOLDER



LIST CONTENTS



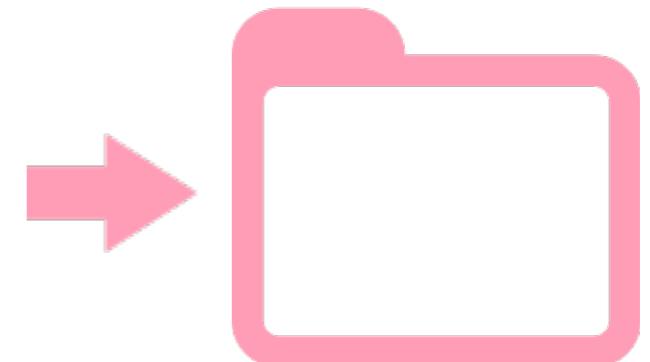
ADD FILE



REMOVE FILE



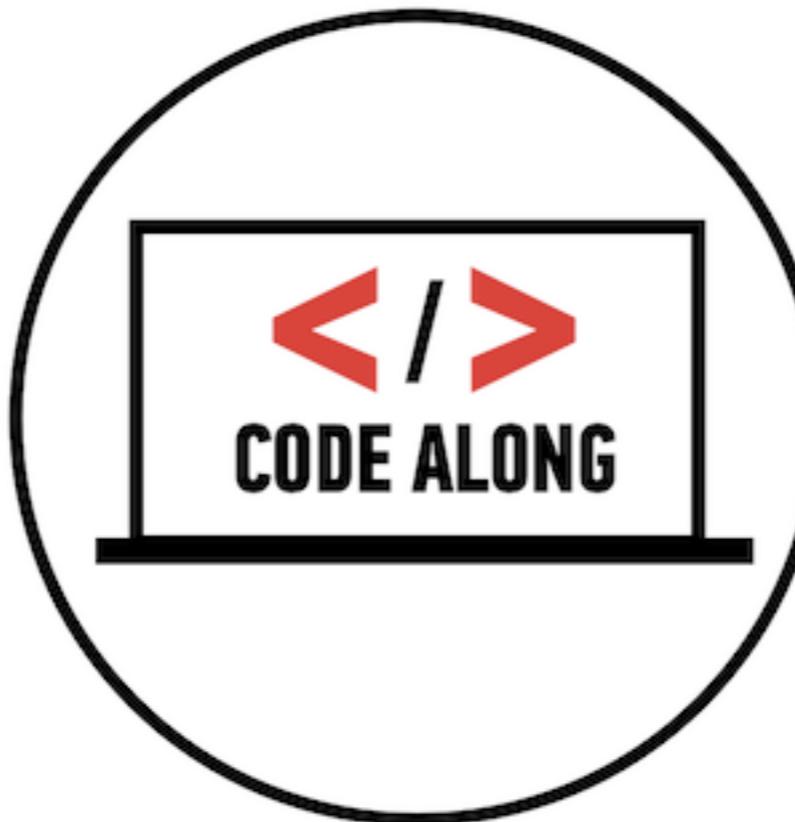
**NAVIGATE TO
ANOTHER FOLDER**



THE COMMAND LINE

Commands		
Action	Type	What does it do?
mkdir	Folder	Creates new folder
touch	File	Creates new file
rmdir or rm -rf	Folder	Removes a folder
rm	File	Removes a file
ls	Folder	Lists everything in a folder
cd	Folder	Changes what directory you are in

COMMAND LINE — CODE ALONG!

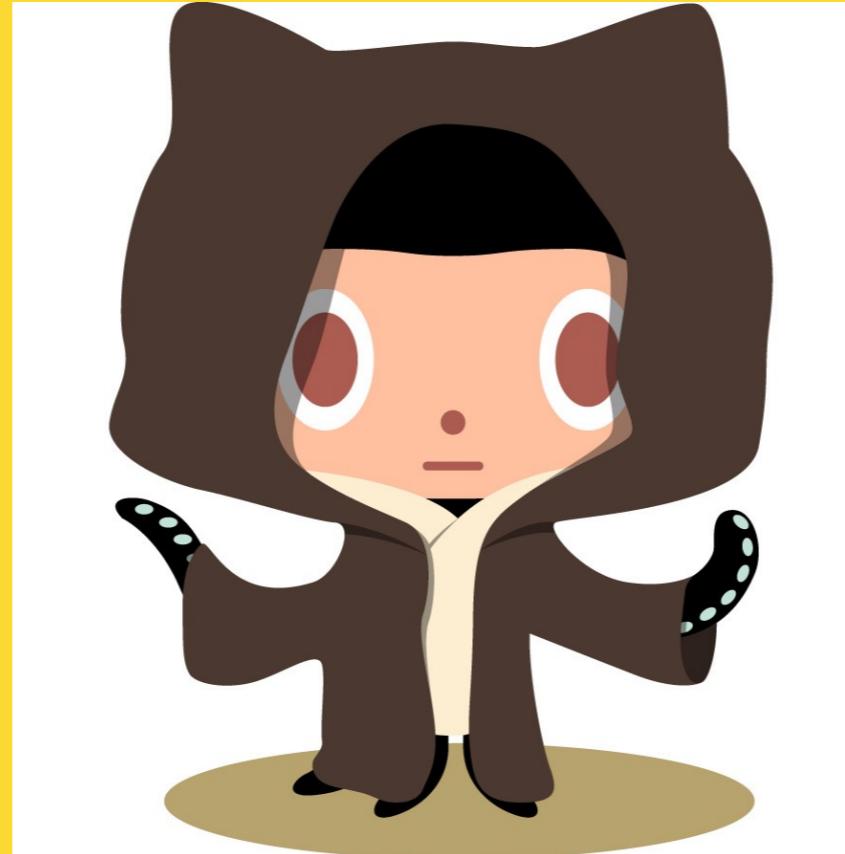


COMMAND LINE — YOUR TURN

- Make a folder on the Desktop called ‘command_line_exercise’
- Inside that folder, make a folder called ‘exercise_1’
- Create an empty file called ‘awesome.txt’
- Go back out one directory and create another folder called ‘exercise_2’
- Change into that directory
- Change back out
- Delete the ‘exercise_2’ folder
- List everything in the current directory you are in
- Change into the ‘exercise_1’ folder and list everything in it
- Call me over!

DAY 1 - GIT / GITHUB

GITHUB: SOURCE CONTROL



GIT? GITHUB?

- Git != Github
- **Git** is a type of version control for developers so that multiple people can work on multiple/the same project(s) at the same time on disposable branches
- Master branch
- Git records every change that a developer makes with a timestamp
- **Github** is where Git records are stored

GIT

INITIALIZE A REPOSITORY

- **Repository** - Place where the history of your work is stored
- First command you'll run in a new project
- Creates .git subdirectory in the project root
- Only needs to be executed **once** per project

\$ git init

GIT

CLONE A REPOSITORY

- if you are contributing to an already existing project, you will need to clone it
- Let's clone a repo together!
- Only needs to be executed **once** per project

\$ git clone

GIT — SAVING CHANGES

GIT ADD

- Adds a change in the working directory to the staging area.
- Tells git that you want to include those changes in the next commit

GIT COMMIT

- Saves a copy or ‘snapshot’ of the current state of the project.
- These are ‘safe’ versions of the project - you can go back to them and git won’t do anything to them unless you tell it to.

\$ git add

\$ git commit

GIT — CHECK STATUS OF WORKING DIRECTORY AND STAGING AREA

GIT STATUS

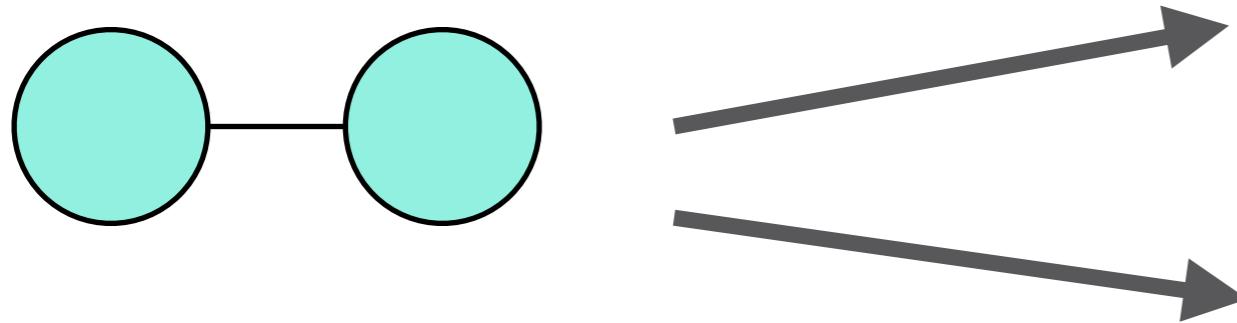
- Lists which files are staged, unstaged, and untracked.

\$ git status

GIT — TRANSFER COMMITS TO REMOTE REPO (REPOSITORY)

GIT PUSH

- ▶ Transfer local commits to remote repository

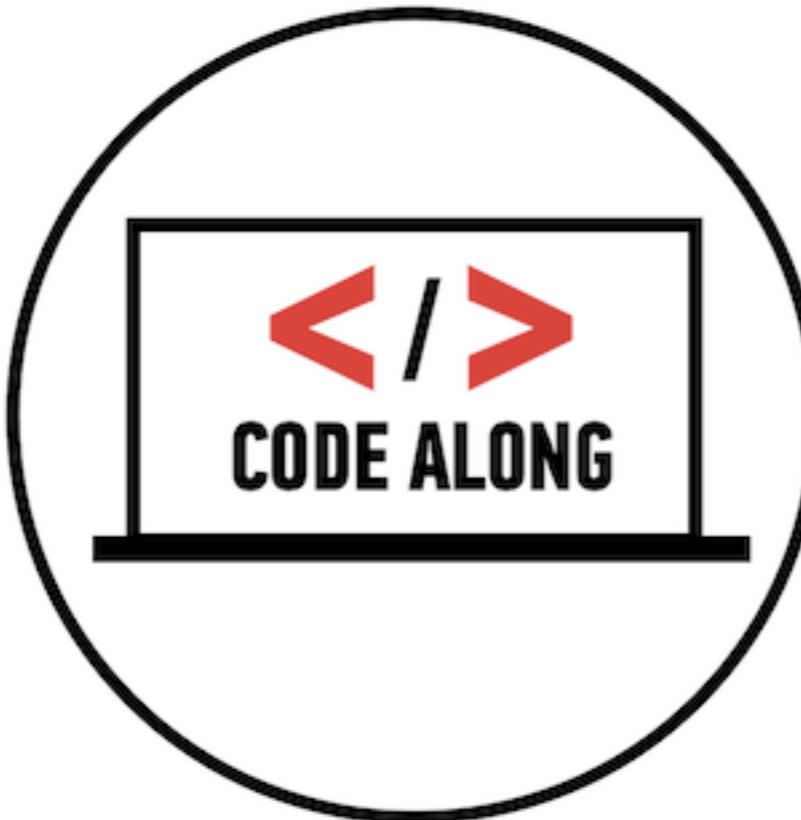


```
$ git push
```

THE COMMAND LINE

Commands	
Action	What does it do?
git init	Makes the current repo a git repo
git add [files_here]	Groups changed files so that they can be committed
git commit -m 'Some commit message'	Saves a snapshot of the project at a particular timestamp
git push [remote] [branch]	Sends/pushes your commits to Github
git pull [remote] [branch]	Pulls changes from Github to your local copy

GITHUB — CODE ALONG!

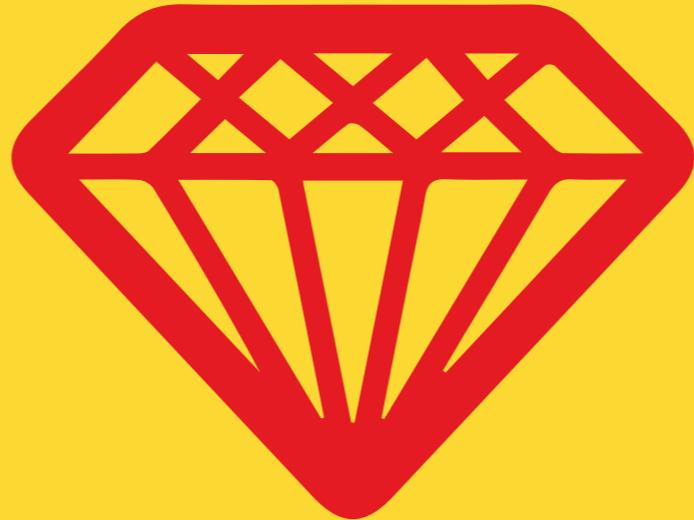


GITHUB - YOUR TURN!

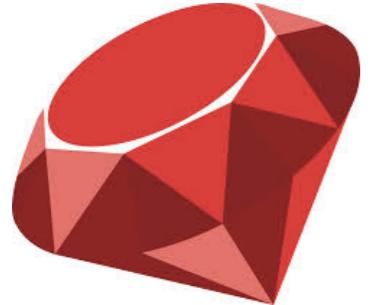
- ▶ Make a folder on the Desktop called ‘github_exercise’ and initialize it with Git
- ▶ Create a file called hello.txt
- ▶ Write your name on line 1 and your occupation on line 2
- ▶ Add/commit the file with a commit message of “added name and occupation”
- ▶ Push those changes to Github
- ▶ Inside of hello.txt, add a third line where you write what your favorite food is
- ▶ Add/commit that change with a commit message of “added favorite food”
- ▶ Push those changes to Github
- ▶ Call me over!

DAY 1 - RUBY BASICS

RUBY



RUBY != RUBY ON RAILS



- Ruby is a programming language
- Focus on simplicity and productivity.
- It has an elegant syntax that is natural to read and easy to write.



- Rails is a framework written in the Ruby language
- Open source web application framework that runs on Ruby
- Allows you to create web applications that query a database.
- Makes assumptions about what every developer needs when starting a project
- Write less, accomplish more

ABOUT RUBY

AN ELEGANT AND ARTFUL LANGUAGE

- Created by Yukihiro “Matz” Matsumoto - who often said that he was “trying to make Ruby natural, not simple,” in a way that mirrors life.
- It looks and reads a lot like regular English
- Ruby is an object-oriented language — everything in Ruby is an object



“Ruby is designed to make programmers happy”

ARITHMETIC OPERATORS

Arithmetic Operators		
Description	Operator	Example (a = 4 and b = 2)
Addition	+	1 + 1
Subtraction	-	3 - 2
Multiplication	*	5 * 3
Exponent	**	3 ** 2 ("3 to the power of 2")
Division	/	10 / 2
Modulus (returns remainder)	%	10 % 3 (would equal 1)

VARIABLES

- ▶ Variables store values.
- ▶ Values are assigned to variables using the `=` operator.
- ▶ Typically are “snake-cased” - start with a lowercase letter and use `_` to separate words
- ▶ Ruby is case-sensitive, meaning capitalization counts!
- ▶ Variables starting with `$` and `@` have mean different things in Ruby, so best to just start with a lowercase letter

`variable_name = value`

DATA TYPES

STRINGS

- ▶ Created using the single/double quote character ‘ ‘ OR “ ”
- ▶ Strings can be added to each other “hello” + “ world” = “hello world”

```
''                      # An empty string  
'Hello world'          # A non-empty string
```

DATA TYPES

STRINGS — INTERPOLATION

- Another way to build up strings is via **interpolation** using the syntax #{}
 - Unless you are interpolating, all strings should be in single quotes

```
first_name = 'Jonathan'          => 'Jonathan Young'  
      "#{first_name} Young"
```

DATA TYPES

NUMBERS - INTEGERS AND FLOATS (DECIMALS)

1 2 3 2.34 3.14159265359

BOOLEANS

true false

COMMENTS

- ▶ Start with a pound sign (#) and extend to the end of the line
- ▶ Ruby will ignore all this code
- ▶ Useful to future readers (including the author and other developers)

```
# This is a comment
```

```
> 1 + 2  # Here is some basic addition  
=> 3
```

PRINTING AND GETTING USER VALUES

PRINT

Takes whatever you give it and prints it to the screen

```
print "Hello"
```

PUTS

- Similar to print, but adds a blank line after it prints your value
- Stands for “put ess” - or “put string”

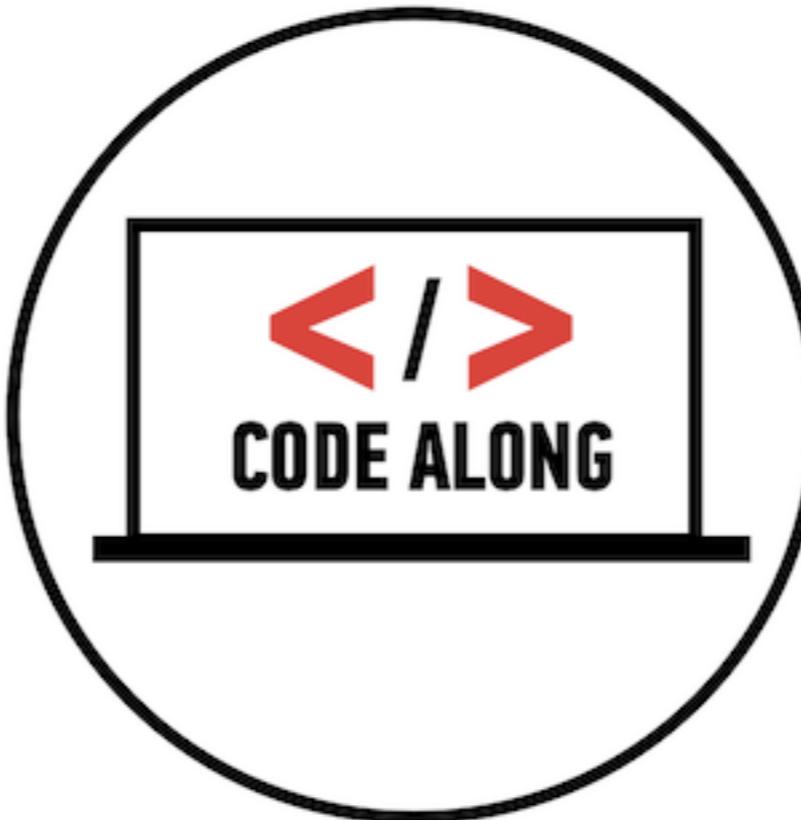
```
puts "Hello"
```

GETS

Gets a value from the user (which can be saved to a variable)

```
response = gets
```

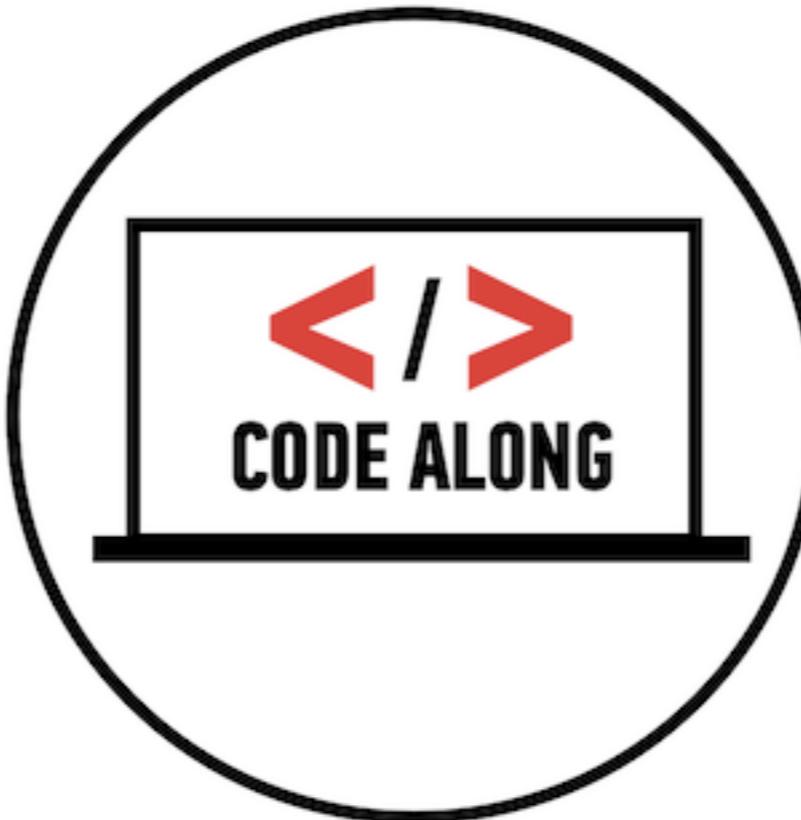
IRB + STRINGS



LOGICAL OPERATORS

Description	Operator	Example (a = 4 and b = 2)	
Equal	<code>==</code>	a == b	<i>false</i>
Not equal	<code>!=</code>	a != b	<i>true</i>
Greater than	<code>></code>	a > b	<i>true</i>
Less than	<code><</code>	a < b	<i>false</i>
Greater than or equal to	<code>>=</code>	a >= b	<i>true</i>
Less than or equal to	<code><=</code>	a <= b	<i>false</i>
Same value and data type?	<code>.eql?</code>	1.eql?(1.0)	<i>false</i>

BOOLEANS



CONDITIONAL LOGIC

DECISION TIME!

- When you want to control how a computer goes through your program, use control flow!
- Control flow is either TRUE or FALSE (like booleans)
- Allows us to select different outcomes depending on user input or the result of a computation

```
if [condition]
  do something
end
```

```
if 1 > 2
  puts "greater than"
end
```

CONDITIONAL LOGIC - ELSE, ELSIF

```
if [condition]
  do something
elsif [condition]
  do something
else
  do something
end
```

```
if 1 > 2
  puts "greater than"
elsif 1 == 2
  puts "equal"
else
  puts "less than"
end
```

LOOPS

THE WHILE LOOP

- As long as the condition is true, the block of code will continue to execute
- When the condition becomes false, the code after the end of the loop will be executed
- Beware of infinite loops

```
while condition_is_true  
  # do something  
end
```

```
while number < 5  
  print 'hello'  
end  
  
number = 2
```

LOOPS

THE UNTIL LOOP

- Will execute a block of code until a condition is true
- Similar to while, except backwards
- When the condition becomes true, the code after the end of the loop will be executed

```
until condition_is_true
  # do something
end
```

ARRAYS

STORING LISTS OF VALUES

- An array is a data type that holds an ordered collection of values
- Can hold any be any type of object, numbers, strings, even other arrays!
- An array can be used to store a list of values in a single variable

There are 2 different
ways to create an array:

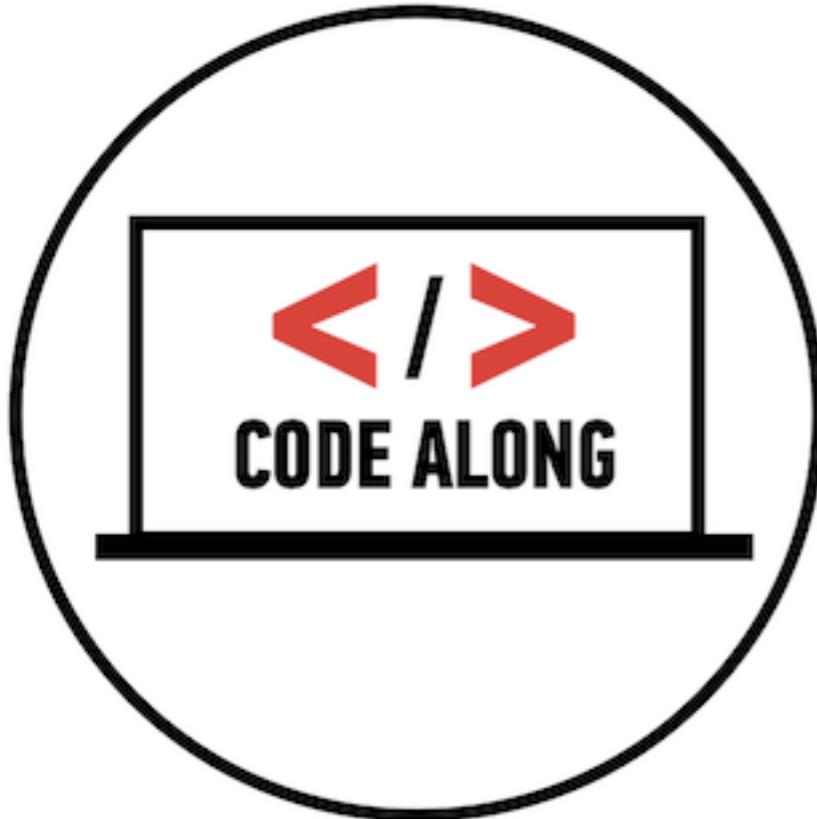
```
variable = Array.new
```

```
variable = []
```



```
shapes = ["circle", "triangle", "square"]
```

QUICK DETOUR



<https://prezi.com/khg0wb0dqio-/ga/>

HASHES

KEY-VALUE PAIRS

- ▶ Collections of key-value pairs
- ▶ Have indexes, similar to arrays, but their indexes are called keys
- ▶ Indices don't have to be numbers

```
hash = {}      #defining an empty hash
```

```
hash = {      #defining a hash with key/value pairs  
  key1: value1,  
  key2: value2  
}
```

Example:

```
user = {  
  name: "Jonathan",  
  age: 30  
}
```

EACH

ITERATE OVER AN ARRAY

- Does something for each item in the array
- Takes a variable between ||, which is a placeholder for the item of the array you are currently on.

```
array = [1, 2, 3, 4, 5]
```

```
array.each do |item|
  do something
end
```

ITERATE OVER A HASH

- Similar to iterating over arrays
- Needs two placeholder variables to represent each key/value pair

```
hash = {key1: val1, key2: val2}
```

```
hash.each do |key, value|
  do something
end
```

METHODS

KEEP YOUR CODE “DRY”

- Groups program logic together so you don't have to repeat yourself
- Can pass variables to methods

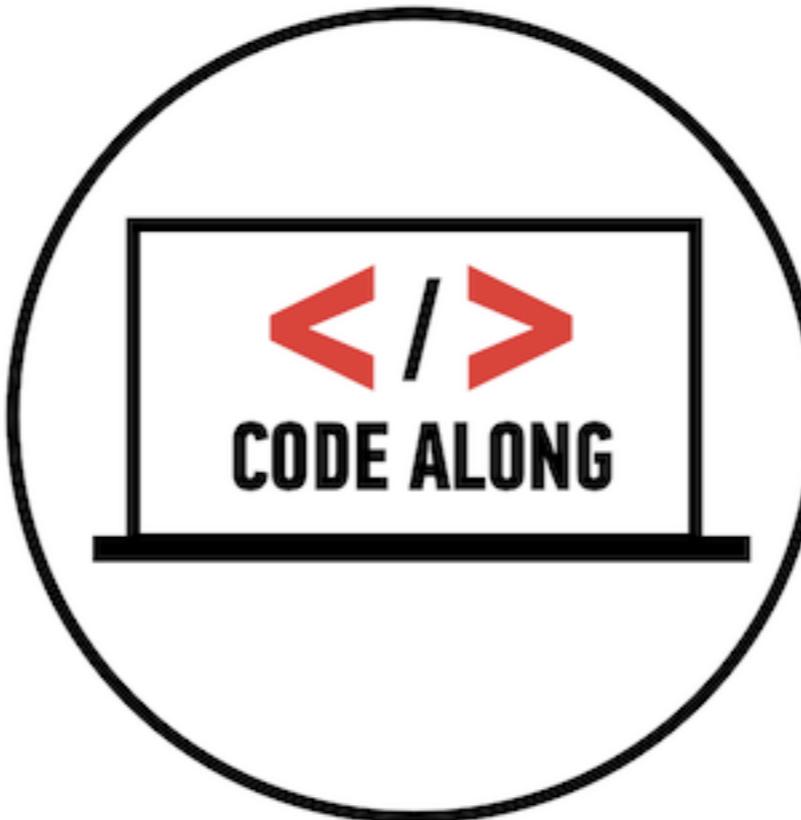
Define:

```
def method_name(arguments)
    # Code to be executed
end
```

Call:

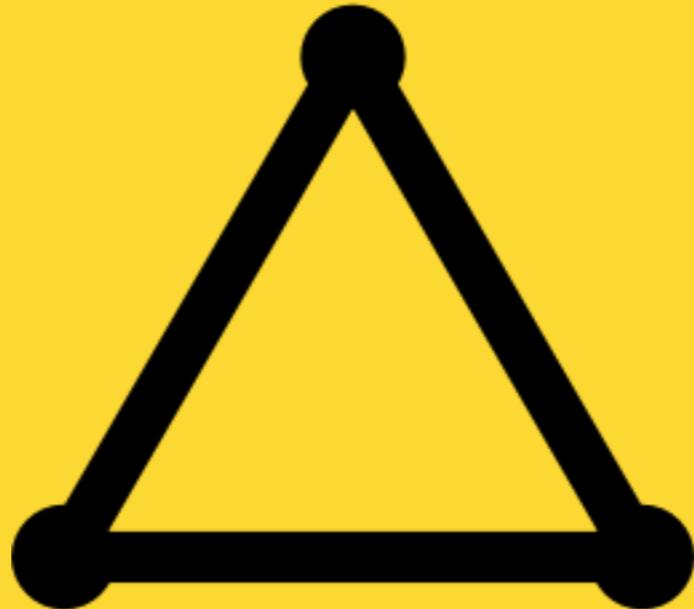
```
method_name(arguments)
```

METHODS — SMASHABLE



DAY 2 – RUBY ON RAILS BASICS

MVC FOR WEB APPS



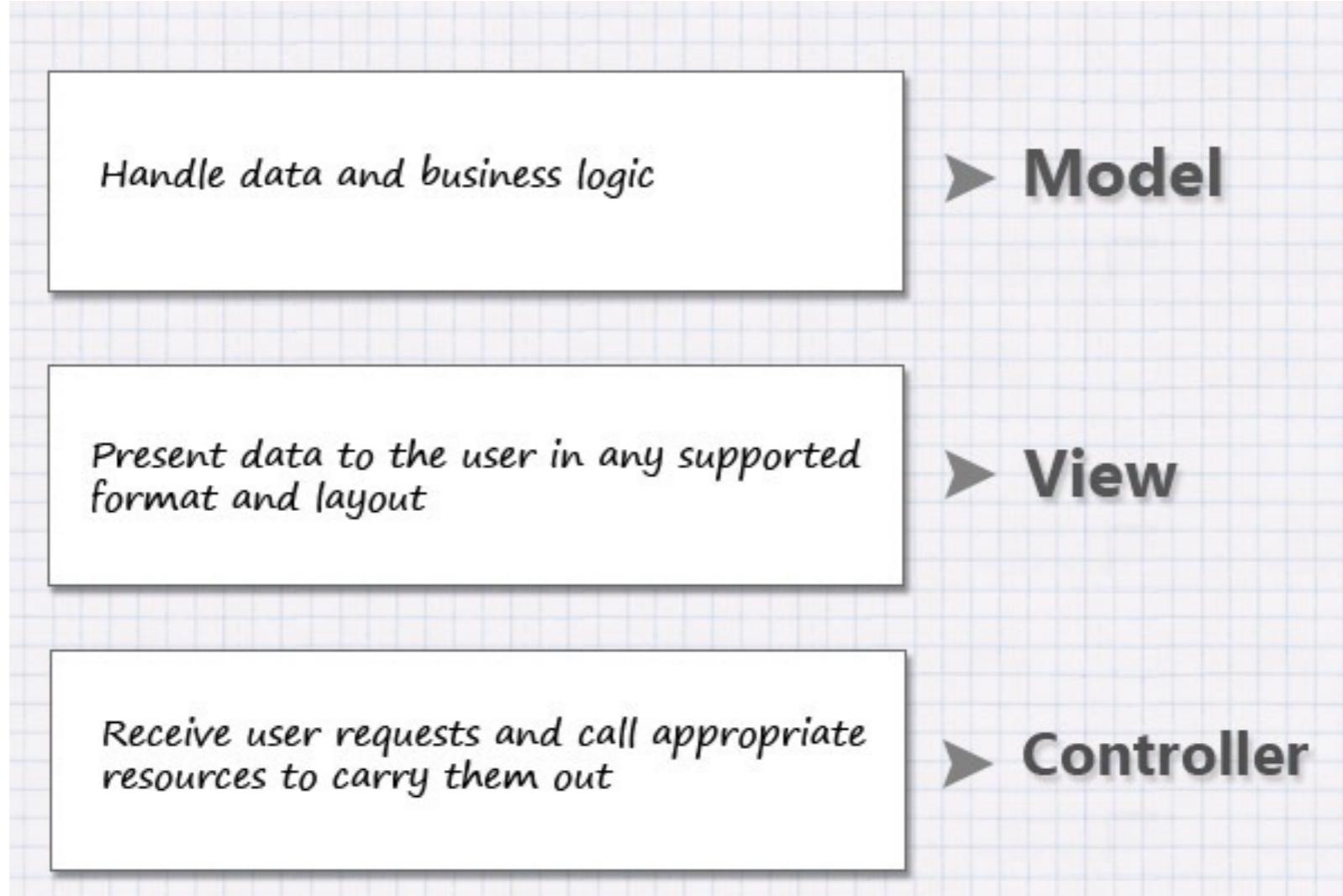
WHAT IS MVC?

An Architectural pattern that describes a way to structure our application and the responsibilities and interactions for each part in that structure.

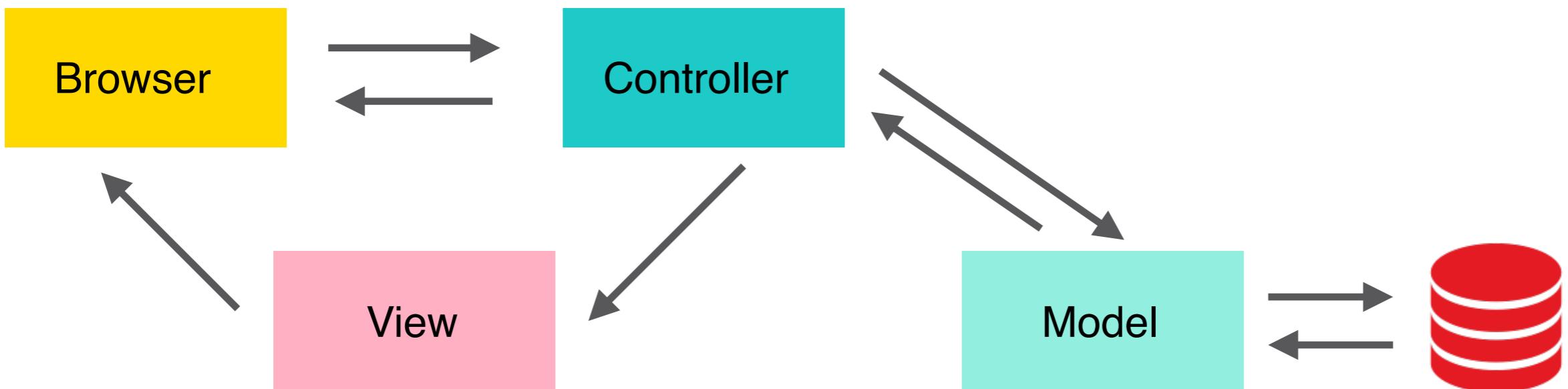
MVC - LET'S BREAK IT DOWN

M MODEL
V VIEW
C CONTROLLER

MVC



MVC



GET / POST / PUT / DELETE

- ▶ Get = Just brings up a website
- ▶ Post = Writes data to the website
- ▶ Put = Update existing data
- ▶ Delete = self-explanatory

RUBY ON RAILS BASICS

CREATING OUR FIRST WEB APP



RAILS PRINCIPLES

DRY

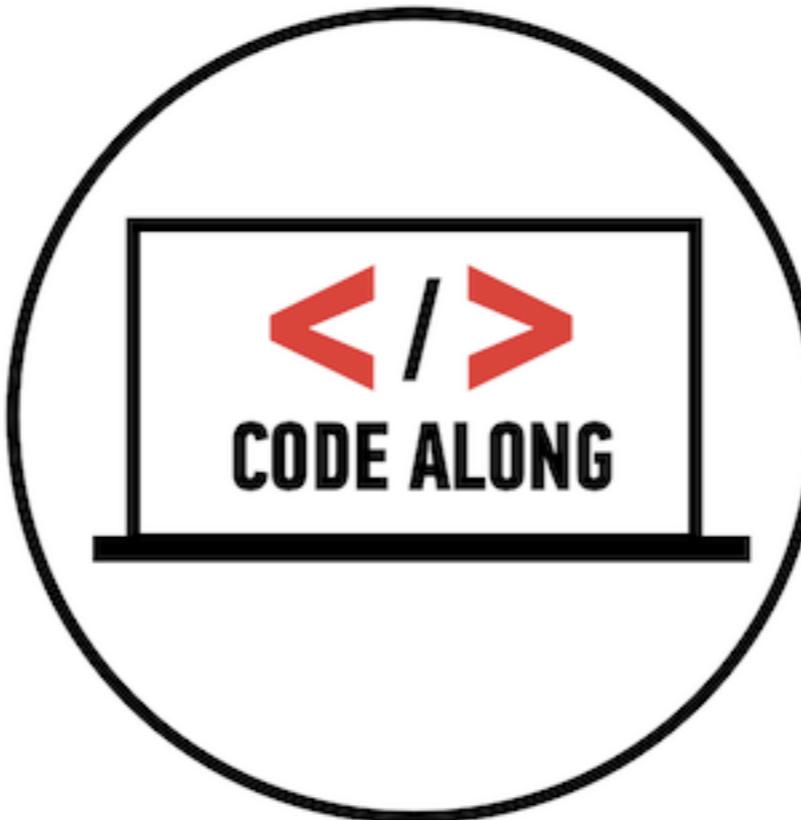
- Don't repeat yourself!!!!
- Concise, consistent code that is easy to maintain



CONVENTION OVER CONFIGURATION

- Sensible defaults.
- Makes assumptions about what developers need to start a project
- Speeds up development, there's not as much code to maintain

LET'S CREATE A BLOG! BUT FIRST, LET'S BRAINSTORM ABOUT OUR POSTS



RAILS

GENERATE A RAILS APPLICATION WITH SCAFFOLDING

- ▶ First step with any new application/project
- ▶ Scaffolding is cheating but a very efficient way to get something off the ground

```
$ rails new blog
```

```
$ rails g scaffold Post title body:text
```

RAILS SERVER

- ▶ Launches a small web server that comes with ruby.
- ▶ Use this command to access the webpage within your browser

```
$ rails server
```

Shorthand:

```
$ rails s
```

LET'S CREATE A BLOG!



Welcome aboard

You're riding Ruby on Rails!

[About your application's environment](#)

Getting started

Here's how to get rolling:

1. Use `rails generate` to create your models and controllers

To see all available options, run it without parameters.

2. Set up a root route to replace this page

You're seeing this page because you're running in development mode and you haven't set a root route yet.

Routes are set up in `config/routes.rb`.

3. Configure your database

If you're not using SQLite (the default), edit `config/database.yml` with your username and password.

Browse the documentation

[Rails Guides](#)
[Rails API](#)
[Ruby core](#)
[Ruby standard library](#)

RAILS - MIGRATIONS

MIGRATING A DATABASE

- ▶ Check your db/migrate folder and open that file in there

```
class CreatePosts < ActiveRecord::Migration
  def change
    create_table :posts do |t|
      t.string :title
      t.text :body

      t.timestamps
    end
  end
end
```

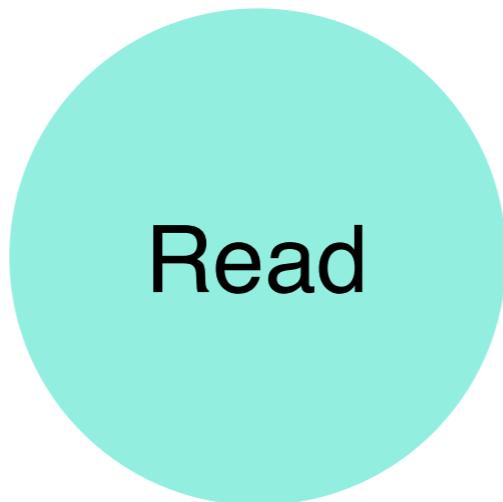
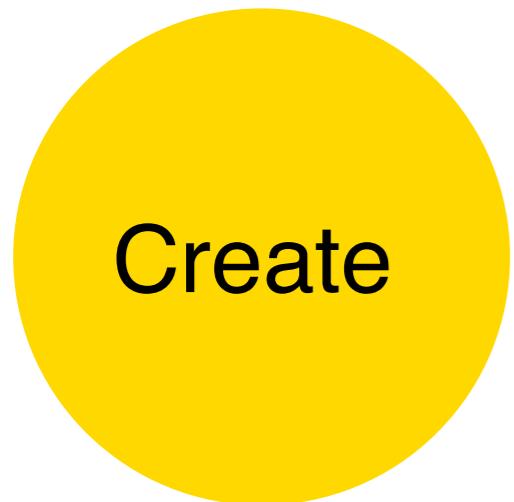
```
$ rake db:migrate
```

DATABASE MIGRATIONS

- ▶ Migrations are Ruby classes that make it simple to create and modify database tables

LET'S SEE WHAT WE'VE MADE!

- ▶ Visit `localhost:3000/posts`
- ▶ All of our functionality has been built! Before we dive into everything, let's talk about CRUD.



LET'S PLAY

- ▶ Let's create a new blog post together!



WHAT HAPPENS WHEN WE TRY TO CREATE A BLANK POST?

- ▶ You tell me!
- ▶ How do we validate that a user submits a title and a body?

```
class Post < ActiveRecord::Base
  attr_accessible :body, :title

  validates_presence_of :body, :title
end
```

CLASSES - MODELS

- ▶ By convention, class names start with a capital letter and use CamelCase instead of underscores
- ▶ A class has the ability to create other objects that are of its kind.

```
class MyClass
  def initialize(param1)
    @param1 = param1
  end
end
```

```
new_object = MyClass.new(param)
```

```
class Article
  def initialize(title, content)
    @title    = title
    @content  = content
  end
end
```

```
article = Article.new("title", "body")
```

CLASSES - MODELS

- ▶ Models contain all the data and all the methods that it knows about itself
- ▶ A class has the ability to create other objects that are of its kind.

```
class Person
  def initialize(name, age)
    @name = name
    @age = age
  end

  def breathe
    "inhale / exhale"
  end
end
```

VALIDATIONS CONTINUED

- ▶ We've created validations for Posts. Let's try to break them. Can you?

Editing post

1 error prohibited this post from being saved:

- Title can't be blank

Title

PROBLEM - OUR POST IS UGLY.

- ▶ Let's visit a post. It's pretty ugly.
- ▶ Inside of app/views/posts/show.html.erb, let's put this code instead. It should be prettier.

```
<p id="notice"><%= notice %></p>

<h2><%= link_to_unless_current @post.title, @post %></h
2>
<%= simple_format @post.body %>

<%= link_to 'Edit', edit_post_path(@post) %> |
<%= link_to 'Back', posts_path %>
```

ANOTHER PROBLEM - OUR BLOG IS UGLY.

- ▶ We need to make our blog pretty. Instead of rewriting code over and over, let's keep it DRY and use something called a *partial*
- ▶ A partial is reusable HTML code within an application.
- ▶ Using the command line, lets create a file app/views/posts/_post.html.erb
- ▶ Underscores tells Rails / you that it is a partial

```
<h2><%= link_to_unless_current @post.title, @post %></h  
2>  
<%= simple_format @post.body %>
```

OUR BLOG IS UGLY.

- ▶ Inside of show.html.erb, let's put that reusable code in place
- ▶ After you do so, make sure everything still works!

```
<p id="notice"><%= notice %></p>

<%= render :partial => @post %>

<%= link_to 'Edit', edit_post_path(@post) %> |
<%= link_to 'Back', posts_path %>
```

OUR BLOG IS UGLY.

- ▶ Finally, let's change our index page

```
<h1>Listing posts</h1>

<%= render :partial => @posts %>

<%= link_to 'New Post', new_post_path %>
```

PROBLEM - OUR BLOG IS TOO SIMPLE!

- ▶ What is a blog without comments for trolls to enter?
- ▶ Shut down your server and run this: rails generate resource Comment post:references body:text
- ▶ Migrate the database again and let's go over the database schema

LINKING POSTS TO COMMENTS AND VICE VERSA

- ▶ A post has_many comments and a comment belongs_to a post
- ▶ In the Post class, make sure it looks like this:

```
class Post < ActiveRecord::Base
  attr_accessible :body, :title

  has_many :comments

  validates_presence_of :body, :title
end
```

PROBLEM - PEOPLE CAN CREATE COMMENTS OUTSIDE OF THE POST CONTEXT

- ▶ rake routes

```
jyoung@Jonathans-MacBook-Air:~/Desktop/blog$ rake routes
      Prefix Verb    URI Pattern          Controller#Action
  comments GET    /comments(.:format)      comments#index
            POST   /comments(.:format)      comments#create
new_comment GET   /comments/new(.:format)  comments#new
edit_comment GET   /comments/:id/edit(.:format) comments#edit
comment     GET   /comments/:id(.:format)  comments#show
            PATCH  /comments/:id(.:format)  comments#update
            PUT    /comments/:id(.:format)  comments#update
            DELETE /comments/:id(.:format)  comments#destroy
  posts     GET   /posts(.:format)        posts#index
            POST   /posts(.:format)        posts#create
new_post    GET   /posts/new(.:format)     posts#new
edit_post   GET   /posts/:id/edit(.:format) posts#edit
post       GET   /posts/:id(.:format)     posts#show
            PATCH  /posts/:id(.:format)     posts#update
            PUT    /posts/:id(.:format)     posts#update
            DELETE /posts/:id(.:format)     posts#destroy
```

PROBLEM - PEOPLE CAN CREATE COMMENTS OUTSIDE OF THE POST CONTEXT

- ▶ Solution: we nest comments within posts because a comment cannot exist without a post and only allow them to be created.

```
jyoung@Jonathans-MacBook-Air:~/Desktop/blog$ rake routes
      Prefix Verb    URI Pattern                               Controller#Action
post_comments POST   /posts/:post_id/comments(.:format)  comments#create
      posts  GET     /posts(.:format)                           posts#index
              POST    /posts(.:format)                           posts#create
    new_post  GET     /posts/new(.:format)                      posts#new
edit_post   GET     /posts/:id/edit(.:format)                 posts#edit
      post   GET     /posts/:id(.:format)                      posts#show
              PATCH   /posts/:id(.:format)                      posts#update
              PUT     /posts/:id(.:format)                      posts#update
              DELETE  /posts/:id(.:format)                      posts#destroy
```

LET'S CREATE COMMENTS

- ▶ app/controllers/comments_controller.rb

```
class CommentsController < ApplicationController
  def create
    @post = Post.find(params[:post_id])
    @comment = @post.comments.create!(params[:comment])
    redirect_to @post
  end
end
```

LET'S GET COMMENTS INTO THE VIEW!

- ▶ app/views/posts/show.html.erb

```
<p id="notice"><%= notice %></p>

<%= render :partial => @post %>

<%= link_to 'Edit', edit_post_path(@post) %> |
<%= link_to 'Back', posts_path %>

<h2>Comments</h2>
<div id="comments">
    <%= render :partial => @post.comments %>
</div>
```

LET'S GET COMMENTS INTO THE VIEW! (CTD)

- ▶ Create a file from the command line called app/views/comments/_comment.html.erb

```
<%= div_for comment do %>
  <p>
    <strong>
      Posted <%= time_ago_in_words(comment.created_at) %> ago
    </strong>
    <br />
    <%= comment.body %>
  </p>
<% end %>
```

LET'S GET COMMENTS INTO THE VIEW! (CTD)

- Back in the app/views/posts/show.html.erb file, we'll need a form for creating comments

```
<%= form_for [@post, Comment.new] do |f| %>
  <p>
    <%= f.label :body, "New comment" %><br/>
    <%= f.text_area :body %>
  </p>
  <p><%= f.submit "Add comment" %></p>
<% end %>
```

GIVE IT A SHOT!

- ▶ Uh Oh!

ActiveModel::ForbiddenAttributesError in CommentsController#create

ActiveModel::ForbiddenAttributesError

Extracted source (around line #4):

```
2   def create
3     @post = Post.find(params[:post_id])
4     @comment = @post.comments.create!(params[:comment])
5     redirect_to @post
6   end
7 end
```

Rails.root: /Users/jyoung/Desktop/blog

[Application Trace](#) | [Framework Trace](#) | [Full Trace](#)

[app/controllers/comments_controller.rb:4:in `create'](#)

[Click to go back, hold to see history](#)

RAILS VERSIONING

- ▶ The newest version of Rails ensures that only the attributes you say you want go into your database.
- ▶ In app/controllers/comments_controller.rb, replace the broken line with:
`@comment = @post.comments.create!(params.require(:comment).permit!)`

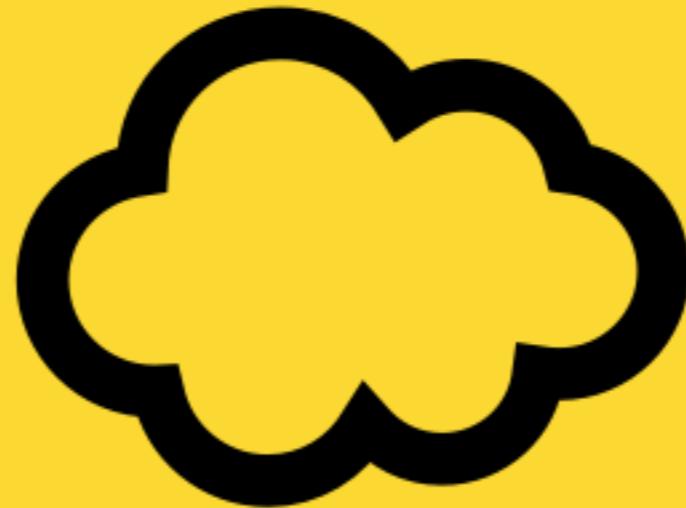
WE HAVE A WEB APP!

Congrats, we did it!

Pat yourself on the back!!!

RUBY ON RAILS BASICS

DEPLOYING TO HEROKU



HEROKU

- ▶ You need an account: heroku.com
- ▶ The starter documentation is available through a quick Google search
- ▶ Once you get an account, you'll need the Heroku tool belt: toolbelt.heroku.com

DATABASES WITH HEROIC

- ▶ We've been using SQLite, but Heroku does not allow SQLite.
- ▶ We will instead use another open-source database called PostgreSQL

```
source 'https://rubygems.org'

gem 'rails', '3.2.13'

group :development, :test do
  gem 'sqlite3'
end

group :production do
  gem 'pg'
end

group :assets do
  gem 'sass-rails',    '~> 3.2.3'
  gem 'coffee-rails', '~> 3.2.1'

  gem 'uglifier', '>= 1.0.3'
end

gem 'jquery-rails'
```

bundle install --without=production

INITIALIZE YOUR GIT REPOSITORY, ADD AND COMMIT IT WITH A MESSAGE

- ▶ Now we are ready to deploy!

HEROKU

- ▶ heroku login
- ▶ heroku create
- ▶ git push heroku master
- ▶ heroku run rake db:setup

RUBY ON RAILS BASICS

NEXT STEPS

GENERAL ASSEMBLY — FULL-TIME COURSES

Filter by topic ▾

ALL FORMATS

FULL-TIME COURSES

PART-TIME COURSES

CLASSES & WORKSHOPS

EVENTS

Make a career change with our 8–12 week, all-day, full-time programs.

Mon, 9 March



Web Development Immersive

12-weeks. All day, every day. Learn the skills to become an entry-level web developer and the resources to get a job in this intensive program.

12 Week Course

 Mon, 9 March
9:00 - 5:30pm



Info Session:
Thu, 11 December at 6:00pm

GENERAL ASSEMBLY — PART-TIME COURSES

Filter by topic	ALL FORMATS	FULL-TIME COURSES	PART-TIME COURSES	CLASSES & WORKSHOPS	EVENTS
Mon, 12 January					
			Front-End Web Development		
			In this 10-week course, students learn to code, speak the language and implement their own designs by learning HTML, CSS, and JavaScript.	<i>10 Week Course</i>  Mon, 12 January 6:00 - 9:00pm 	
Tue, 13 January					
			User Experience Design		
			In this 12-week course, students learn to build wireframes, implement best practices for common design patterns and analyze business goals from a user perspective.	<i>12 Week Course</i>  Tue, 13 January 6:30 - 8:30pm 	
Mon, 9 March				<i>Info Session:</i> <u>Mon, 24 November at 5:30pm</u>	

ONLINE LEARNING

The screenshot shows the homepage of the Rails for Zombies website. At the top, there's a navigation bar with links to Home, Code TV, My Account, and Support. A 'Sign In' button is also present. The main header features a 'RAILS FOR ZOMBIES' logo with a green zombie head inside a circular emblem. Below the logo, it says 'SPONSORED BY: New Relic.' There's a large video player placeholder with a play button icon. To the right of the video player, the text 'LEARN RAILS THE ZOMBIE WAY' is displayed. Below this, a paragraph describes the course: 'Introducing the upgraded way to learn Ruby on Rails in the browser, with no additional configuration needed. Learning Rails for the first time should be fun, and Rails for Zombies allows you to get your feet wet without having to worry about configuration. You'll watch five videos, each followed by exercises where you'll be programming Rails in your browser. Don't worry if you've played Rails for Zombies before — you get to start fresh with new achievements. Click the button below to start coding!' A prominent yellow 'START COURSE NOW' button is at the bottom. At the bottom of the page, there are two sections: 'WHAT DO I NEED TO KNOW?' and 'EARN THESE BADGES'.

The screenshot shows the dashboard for the Ruby course on codecademy. At the top, it says 'Welcome Back!' and features a diamond-shaped logo for Ruby. A progress bar indicates '83%' completion. Below the progress bar is a 'CONTINUE' button and a link to 'View Course Overview'. Underneath, there are tabs for 'In-Progress Skills (1)' and 'Completed Skills (0)'. A specific skill card for 'Ruby' is shown with its own progress bar at 83%. At the bottom of the dashboard, the text 'Web Developer Skills' is visible.

The screenshot shows the homepage of the Ruby on Rails Tutorial website. It features a dark background with a book cover for 'THE RUBY ON RAILS TUTORIAL' by Michael Hartl. The title 'RUBY ON RAILS TUTORIAL (3RD ED.)' is prominently displayed, along with the subtitle 'Learn Web Development with Rails'. Below the title, the author's name 'Michael Hartl' is mentioned. There are buttons for 'BOOK INFO' and 'CONTACT AUTHOR'. At the bottom of the page, a preview of 'Chapter 1: From zero to deploy' is shown, with the heading 'Chapter 1' and 'From zero to deploy'.

The screenshot shows a section of the interactive Ruby tutorial. It features a cartoon cat character and the text 'try ruby ❤️'. A message says 'Got 15 minutes? Give Ruby a shot right now!'. Below this, a paragraph introduces Ruby as a programming language from Japan. It includes a command-line interface simulation where the user can type commands like 'help', 'clear', 'next', and 'back'. At the bottom, there are keyboard shortcut keys for 'Enter / Return', 'Submit code', 'Up', and 'Cycle through submitted code'.

RUBY ON RAILS BASICS

Q&A

ADDITIONAL RESOURCES

DNS / Internet —> <https://howdns.works/ep1/>

Rails —> <https://www.railstutorials.org>

DOCS —> <https://ruby-doc.org>

RubyMonk —> <https://rubymonk.com>

THANKS!

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