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WDI X-FILES

GEMS & BUNDLER

TODAY'S OBJECTIVES

- ▶ Understand and use ruby gems
- ▶ Understand the purpose of bundler and use it.
- ▶ Case/Conditional & Array practice while using fun gems.

RUBY GEMS

- ▶ Gems are prewritten chunks of code we can use in our programs. (Think: JS Libraries)
- ▶ “Gem” is an application we’ve installed on our machine. We use the “gem” command in terminal to interact with RubyGems.
- ▶ <https://rubygems.org/> - By default, this is where the gem application looks for gems. It can be redefined, but it is where we will find and obtain gems from.

USEFUL GEM COMMANDS

- ▶ Gem install - Install specified gem.
- ▶ Gem uninstall - Exactly what you expect.
- ▶ Gem list - List all installed gems on your machine.
- ▶ <http://guides.rubygems.org/rubygems-basics/#fetching-and-unpacking-gems>

DIVE INTO IT...

- ▶ Touch a faker.rb file.
- ▶ CD into the directory containing faker.rb
- ▶ In terminal, run 'Gem install faker'
- ▶ Goto the faker docs: <https://github.com/stympy/faker>

2 minutes.

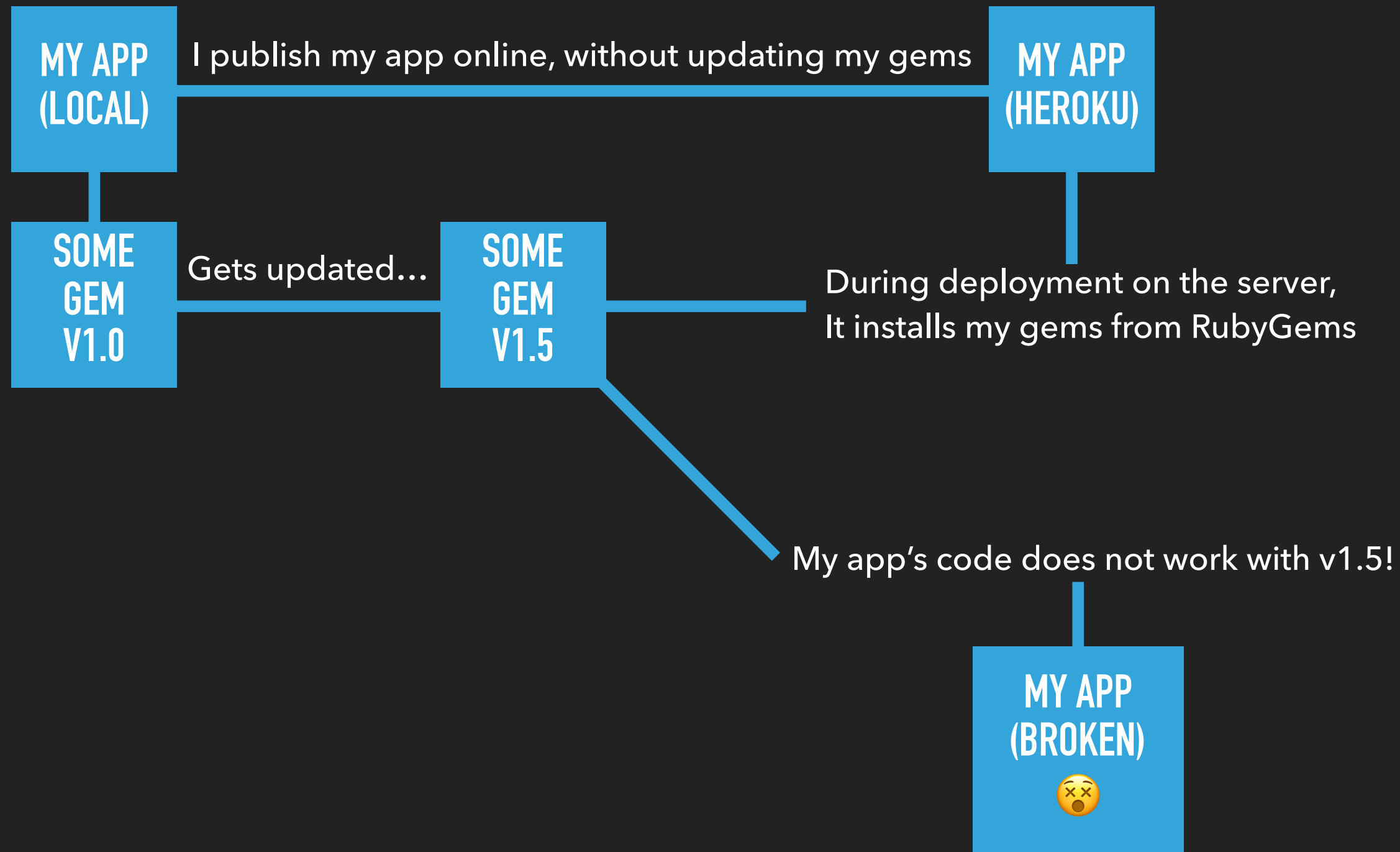
DIVE INTO IT...

1. Write a for loop that generates 20 random names. (10 minutes)
2. Push this name into an array. The loop should end and you should have an array with 20 strings in it. (5 minutes)
3. Write a second loop that will sort and 'Puts' each one. (5 minutes)
4. Edit the initial loop to generate extra information about the person. (20 minutes) Use the docs to find other data to generate.
Have this information be displayed during the 2nd loop.

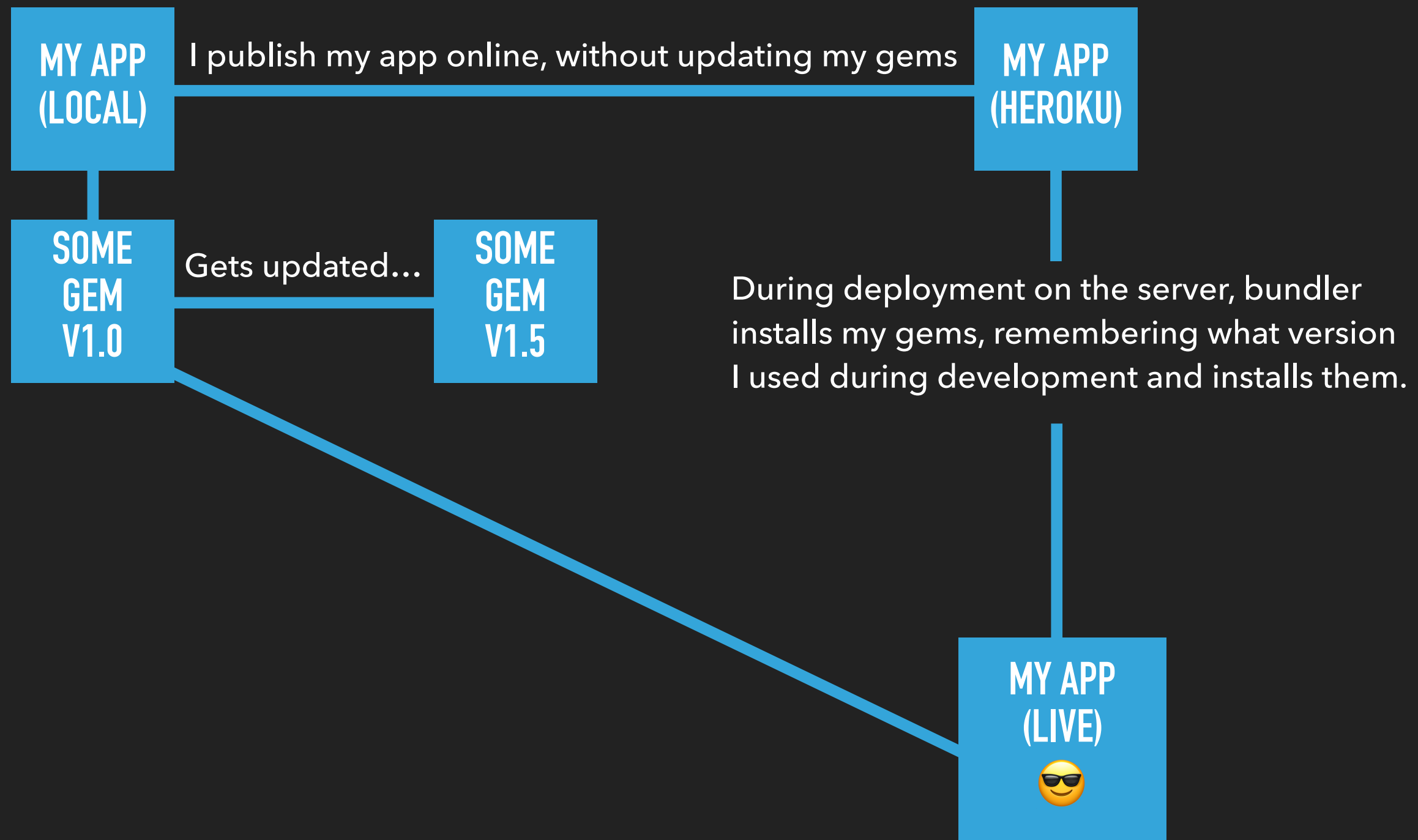
~10 MINUTES



PROBLEMS YOU'LL SEE (AND WHY BUNDLER EXISTS)



BUNDLER – WHY?



BUNDLER- HOW?

- ▶ Uses a Gemfile to track gems.
- ▶ Once installed, we include them in our ruby file with the syntax:

```
require 'nokogiri'  
require 'sinatra'  
require 'pry'
```
- ▶ This syntax will automatically discover your Gemfile, and make all of the gems in your Gemfile available to use in your Ruby application.

BUNDLER- USAGE?

1. *gem install bundler* (this was done already)
2. Create a Gemfile with *bundle init*
3. Add dependencies to the Gemfile. Most basic usage:
gem "name"
Run *bundle install* to install said gems that aren't already installed on your system
4. Once ready to deploy, run *bundle install* on your server

BUNDLER- DO IT!

1. In today's folder Mkdir "Bundler", CD into it.
2. Bundle init
3. Subl open gemfile.
4. Add the gem 'colorize' to the gemfile.
5. Touch a script.rb file.
6. Require colorize in the ruby file.
7. Bundle install.
8. In the .rb file, add the line *puts "This is blue".colorize(:blue)* and run the file to test if it is working.

10 MINUTES!

RUBY CONDITIONAL & ARRAY PRACTICE UTILIZING BUNDLER/GEMS

1. Write a function called "rainbowSpeak"
It will take 1 argument, a sentence.
2. Inside this function determine a way to randomly color each letter in the sentence.
3. Output the sentence with random colors, PREVENTING repeating colors somehow.

TIP!

You will need to look at the documentation and possibly source code for 'colorize' on github to determine how many and what colors are possible. <https://github.com/fazibear/colorize>