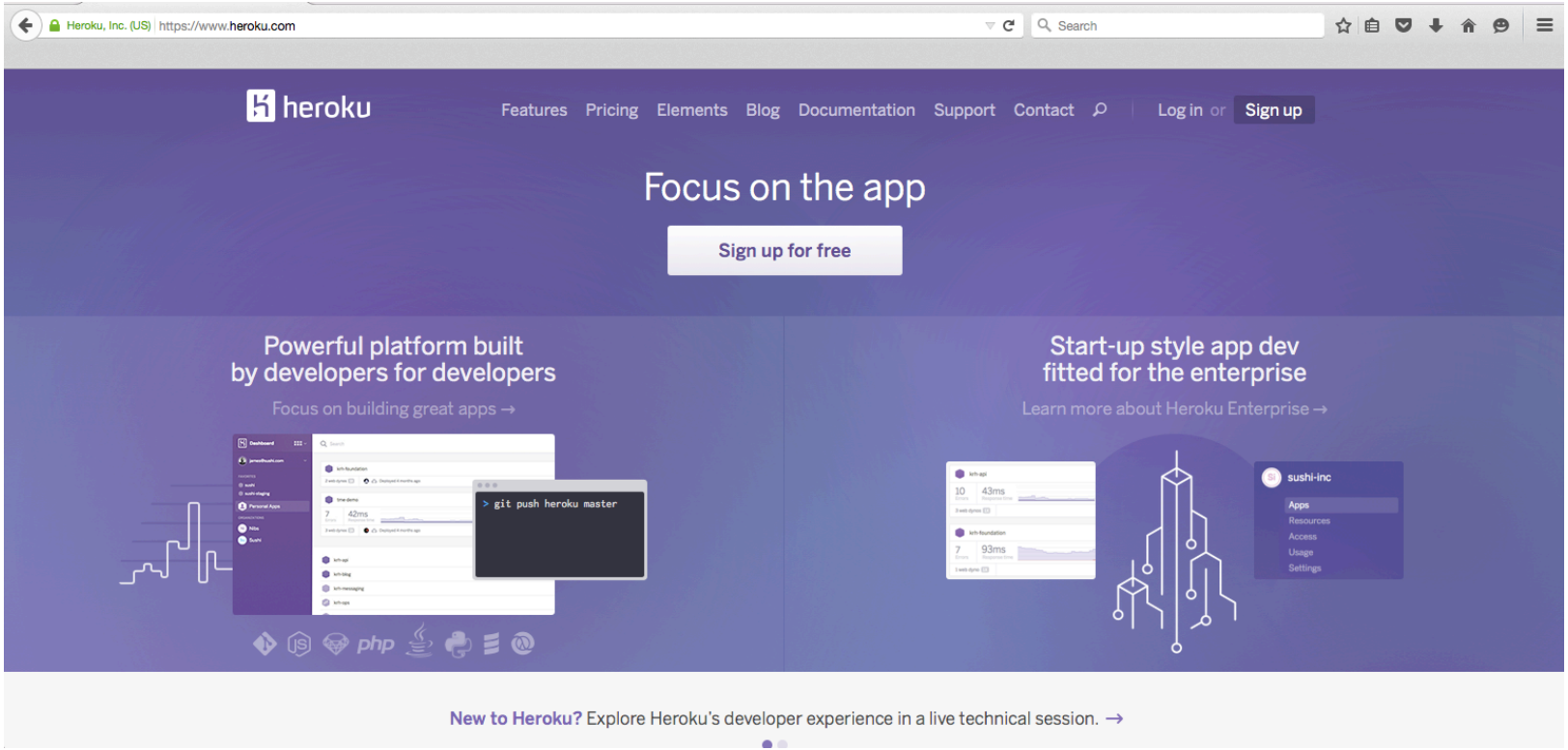
In this lecture, we will discuss…

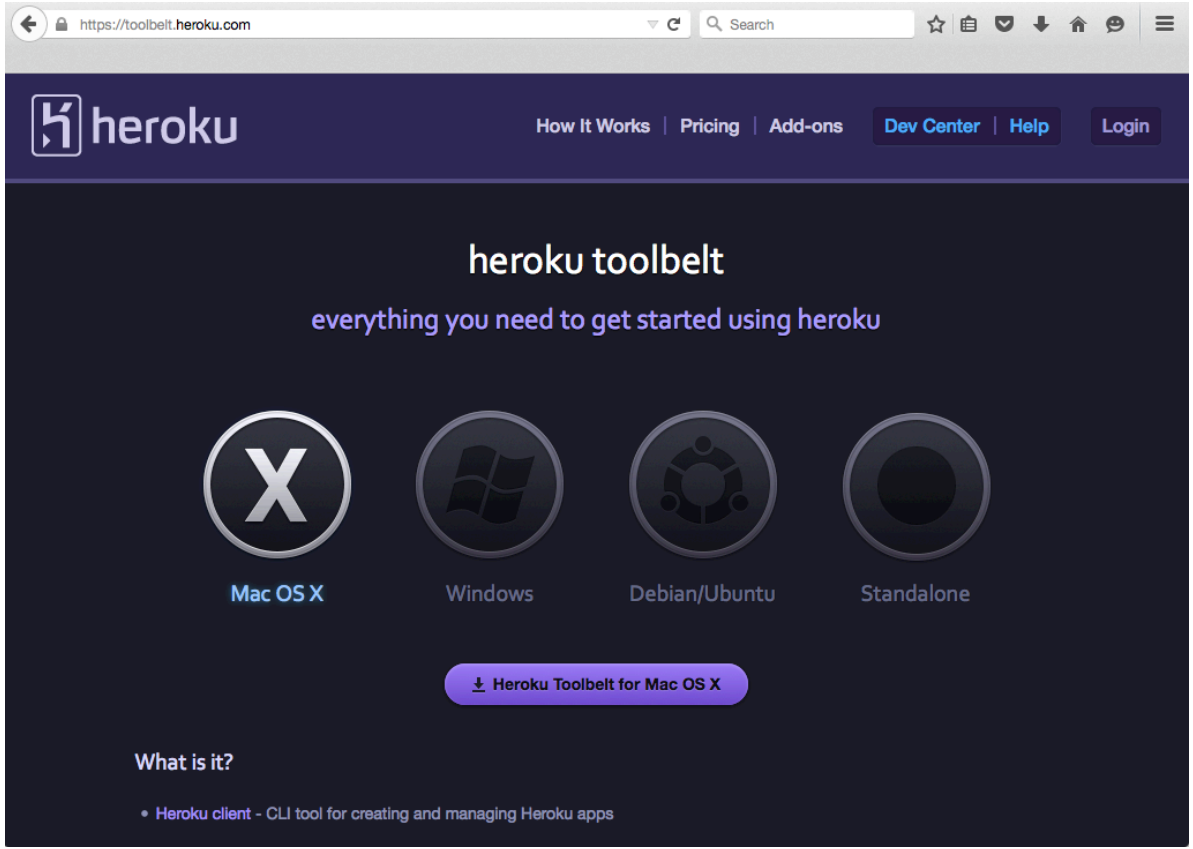
- Deploying to Heroku

Deploying to Heroku

- Sign up for new account at heroku.com

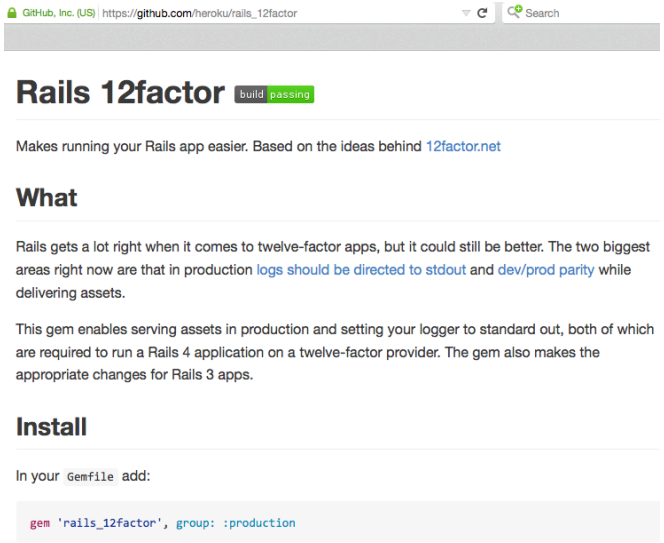


Heroku Toolbelt



Final Steps

- Heroku uses Postgres and recommends `rails_12factor` gem
- Put `sqlite` gem into development group and “heroku” gems in production



Final Steps

Gemfile

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

gem 'rails', '4.2.3'
gem 'sqlite3', group: :development
gem 'sass-rails', '~> 5.0'
gem 'uglifier', '>= 1.3.0'
gem 'coffee-rails', '~> 4.1.0'
gem 'jquery-rails'
gem 'turbolinks'
gem 'jbuilder', '~> 2.0'
gem 'sdoc', '~> 0.4.0', group: :doc

group :development, :test do ...
end

group :production do
  gem 'pg'
  gem 'rails_12factor'
end

gem 'httparty', '0.13.5'
```

After adding the gems, run bundle and commit changes to repo!

Final Steps

```
~/my_first_app$ heroku login
Enter your Heroku credentials.
Email: kalmanh@gmail.com
Password (typing will be hidden):
Authentication successful.
~/my_first_app$ heroku create search-coursera-jhu
Creating search-coursera-jhu... done, stack is cedar-14
https://search-coursera-jhu.herokuapp.com/ | https://git.heroku.com/search-coursera-jhu.git
Git remote heroku added
~/my_first_app$ git remote -v
heroku  https://git.heroku.com/search-coursera-jhu.git (fetch)
heroku  https://git.heroku.com/search-coursera-jhu.git (push)
origin  https://github.com/jhu-ep-coursera/fullstack-course1-module3.git (fetch)
origin  https://github.com/jhu-ep-coursera/fullstack-course1-module3.git (push)
```

Final Steps

```
~/my_first_app$ git push heroku master
Counting objects: 159, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (144/144), done.
Writing objects: 100% (159/159), 155.86 KiB | 0 bytes/s, done.
Total 159 (delta 29), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Ruby app detected
remote: -----> Compiling Ruby/Rails
remote: -----> Using Ruby version: ruby-2.0.0
remote: -----> Installing dependencies using 1.9.7
remote:        Running: bundle install --without development:test --path vendor/bundle --binstubs vendor/bundle/bin -j4 --deployment
remote:        Fetching gem metadata from https://rubygems.org/.............
remote:        Fetching version metadata from https://rubygems.org/...
remote:        Fetching dependency metadata from https://rubygems.org/..
remote:        Rubygems 2.0.14 is not threadsafe, so your gems must be installed one at a time. Upgrade to Rubygems 2.1.0 or higher to enable parallel gem installation.
```

Make sure that the top level directory of your git repo contains `app` directory and other Rails files and directories!

Final Steps

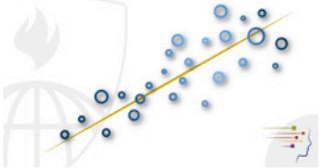
```
remote: ###### WARNING:
remote:        You have not declared a Ruby version in your Gemfile.
remote:        To set your Ruby version add this line to your Gemfile:
remote:        ruby '2.0.0'
remote:        # See https://devcenter.heroku.com/articles/ruby-versions for more information.
remote:
remote: ###### WARNING:
remote:        No Procfile detected, using the default web server (webrick)
remote:        https://devcenter.heroku.com/articles/ruby-default-web-server
remote:
remote: -----> Discovering process types
remote:        Procfile declares types -> (none)
remote:        Default types for Ruby  -> console, rake, web, worker
remote:
remote: -----> Compressing... done, 29.4MB
remote: -----> Launching... done, v5
remote:        https://search-coursera-jhu.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/search-coursera-jhu.git
 * [new branch]      master -> master
~/my_first_app$ heroku open
Opening search-coursera-jhu... done
```

Final Steps

https://search-coursera-jhu.herokuapp.com

Search

Searching for - jhu

Image	Name	Description
	Introduction to Genomic Technologies	The basic biology of modern genomics and the experimental tools used for measurement. This is the first course in the Genomic Big Data Science Specialization.
	Regression Models	Learn how to use regression models, the most important statistical analysis tool in the data scientist's toolkit. This is the seventh course in the Johns Hopkins Data Science Specialization.
	Statistics for Genomic Data Science	An introduction to the statistics behind the most popular genomic data science projects. This is the sixth course in the Genomic Big Data Science Specialization from Johns Hopkins University.

Final Steps

https://search-coursera-jhu.herokuapp.com/?looking_for=diet

Search

Searching for - diet

Image	Name	Description
	The Meat We Eat	The Meat We Eat is a course designed to create a more informed consumer about the quality, safety, healthfulness and sustainability of muscle foods and address current issues in animal agriculture in developed and developing countries.
	Sustainability of Food Systems: A Global Life Cycle Perspective	This course explores the diversity of the foods we eat, the ways in which we grow, process, distribute, and prepare them, and the impacts they have upon our environment, health, and society. We will also examine the challenges and opportunities of creating a more sustainable global food system in the future.
	Nutrition, Health, and Lifestyle: Issues and Insights	This seven week course will explore nutrition concepts that take center stage in mainstream media outlets and become conversation topics among consumers interested in food choice as it relates to optimal health and physical performance.

Summary

- ✧ Sign up for a Heroku account and download the toolbelt
- ✧ Don’t forget to change the `Gemfile`

What’s Next?

- ✧ Blackbox testing with RSpec and Capybara