

- ❖ **Environment** is a generic term used to describe different places where your web app runs. For example, your **development environment** is your laptop + the software you have installed on it to allow it to run a Ruby on Rails application. The c9.io service we've been using is an all-in-one web-based development environment. Your **production environment** is where people will access your live web app. While the technologies are a bit different and more industrial-strength, it's still a computer + some software.
- ❖ Sometimes the software that runs in each environment is known as the **stack**.
- ❖ A sample **development stack**:
 - ❖ Mac OS X (operating system)
 - ❖ Webrick (web server)
 - ❖ sqlite3 (database server)
- ❖ A sample **production stack**:
 - ❖ Ubuntu Linux (operating system)
 - ❖ nginx (web server)
 - ❖ MySQL (database server)
- ❖ There are services like **Heroku** that help you get your **production environment** up quickly.

- ❖ Heroku is a platform-as-a-service – it hides all the gory details of running a production stack from you
- ❖ To you, Heroku is just another **git remote**, just like Github.

Push to Github

```
git push origin master
```

Push to Heroku

```
git push heroku master
```

Setting Your Application Up on Heroku for the First Time

- ❖ Sign-up for Heroku at heroku.com
- ❖ Commit your project's code from the command-line:
 - ❖ `git add -A`
 - ❖ `git commit`
- ❖ Create a new Heroku application from the command line with `heroku create`
- ❖ Separate your Gemfile by creating a development group and ensuring that development-specific gems (like `sqlite3`) are in that group only – don't forget to `bundle install`
- ❖ Push your code to Heroku using `git push heroku master`
- ❖ To run command-line things on Heroku, prefix each command with `heroku run`. For example,
 - ❖ `heroku run rake db:migrate`
 - ❖ `heroku run rake db:seed`

Subsequent Deploys

- ❖ Commit your project's code from the command-line:
 - ❖ `git add -A`
 - ❖ `git commit`
- ❖ Push your code to Heroku using `git push heroku master`
- ❖ Migrate as necessary