Software Explained Simply

A Roadmap

What is your goal?

- I want to be employed full-time as a software developer

- I want to learn programming for my own interest/purposes

Goal: Employed Software Developer

1. Talk to tech recruiters in your area

2. Find out the most popular languages/technologies/frameworks in your area

3. Learn them
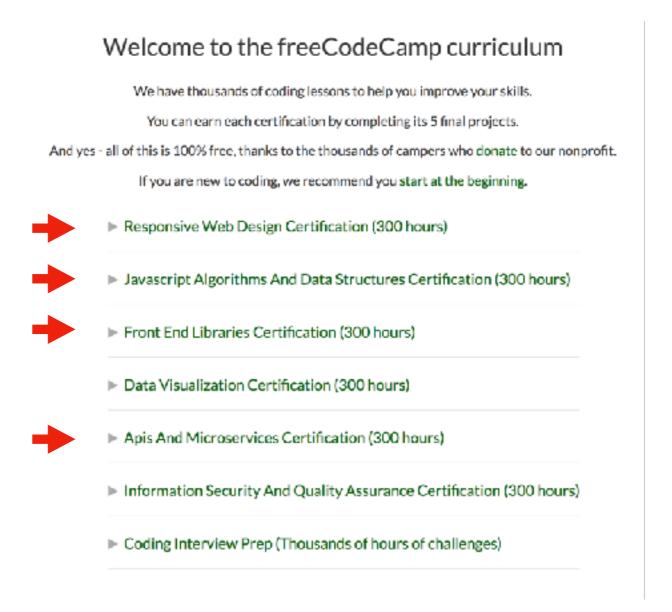
4. Attend meetups about those technologies in your area

Goal: Learn how to program

1. Pick a language/technology/framework

2. Have fun learning with it!

General Steps

1. Learn HTML/CSS

2. Learn JavaScript

3. Learn a backend language and its major framework (ex: Ruby and Rails)

4. Build CRUD apps

5. Deploy an app to a production environment (ex: your personal site or blog on a service like Heroku)

6. Build an API

7. Learn Git

8. Learn how to query databases (SQL)

Resources (Free)

Welcome to the freeCodeCamp curriculum

We have thousands of coding lessons to help you improve your skills.

You can earn each certification by completing its 5 final projects.

And yes - all of this is 100% free, thanks to the thousands of campers who donate to our nonprofit.

If you are new to coding, we recommend you start at the beginning.

▶ Responsive Web Design Certification (300 hours)

▶ Javascript Algorithms And Data Structures Certification (300 hours)

▶ Front End Libraries Certification (300 hours)

▶ Data Visualization Certification (300 hours)

▶ Apis And Microservices Certification (300 hours)

▶ Information Security And Quality Assurance Certification (300 hours)

▶ Coding Interview Prep (Thousands of hours of challenges)

https://learn.freecodecamp.org/

https://learn.freecodecamp.org/responsive-web-design/
basic-html-and-html5/say-hello-to-html-elements

Resources (Free)

https://www.hackerrank.com/

https://exercism.io/
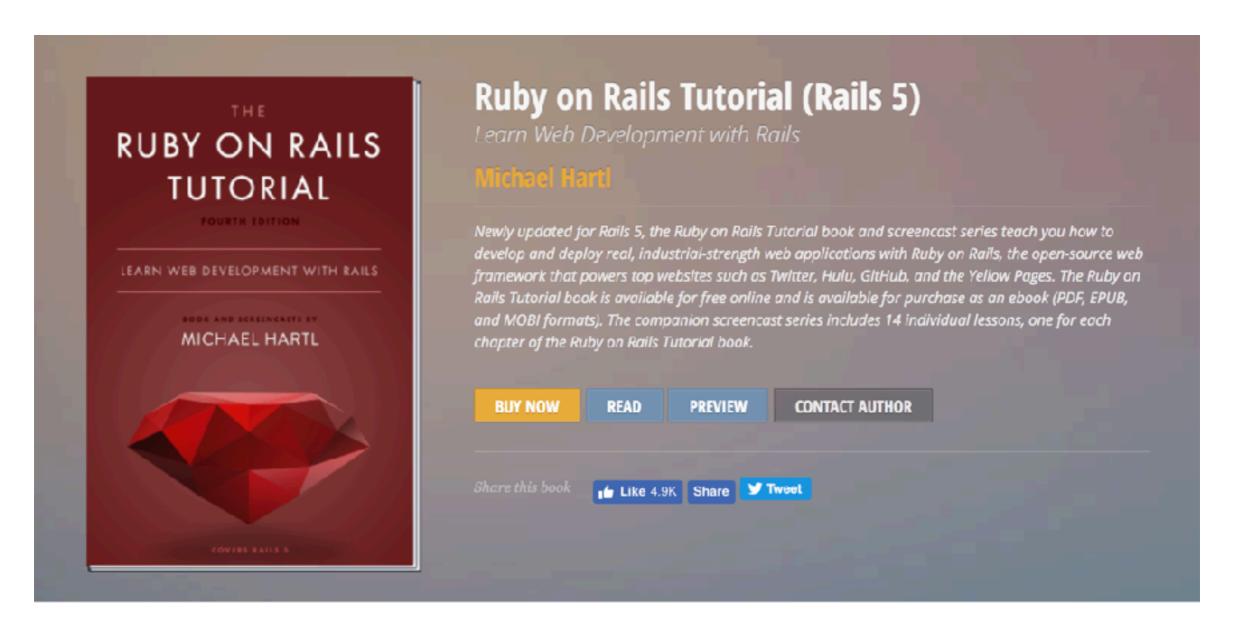
More resources that are for Rails*

Why Rails?

- Stable, established community—any question you have has been answered many times online

- Countless companies have Rails apps and more each day are making new ones (aka large need for Rails devs)

- Easy to learn yet powerful enough to build a career around

- Rails (and Ruby) were developed with developer happiness and productivity as a core value

- Learning Rails will give you a broad base of knowledge backend to frontend to build upon

Why *not* Rails?

- If you want to be employed as a developer ASAP…

- …and Ruby/Rails is not popular in your area…

Resources (Free & Rails)

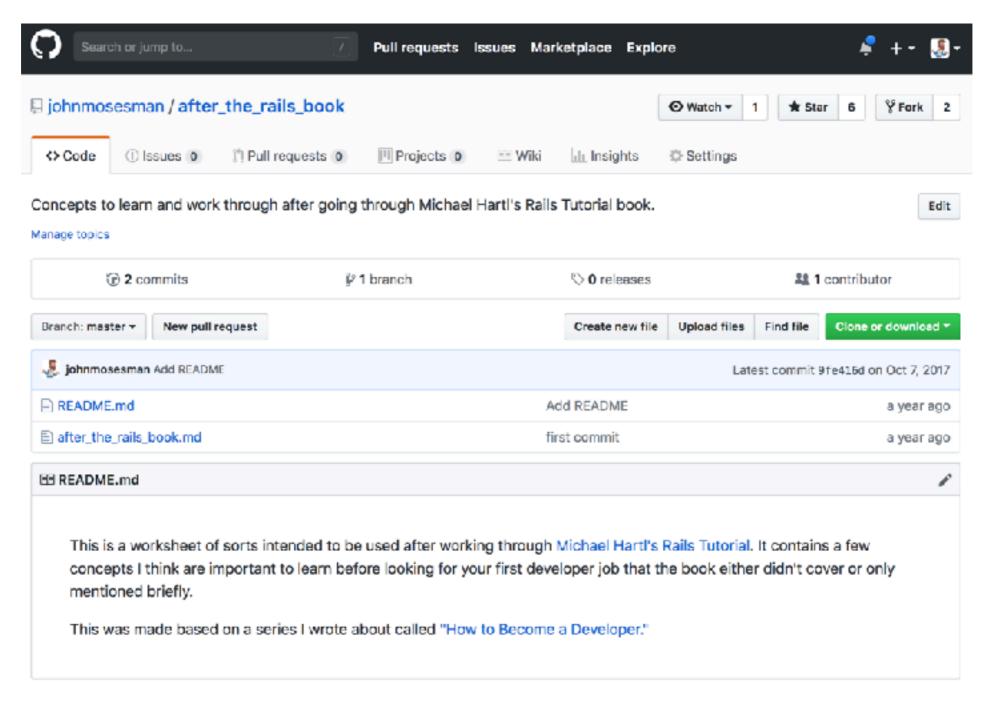https://www.railstutorial.org/book

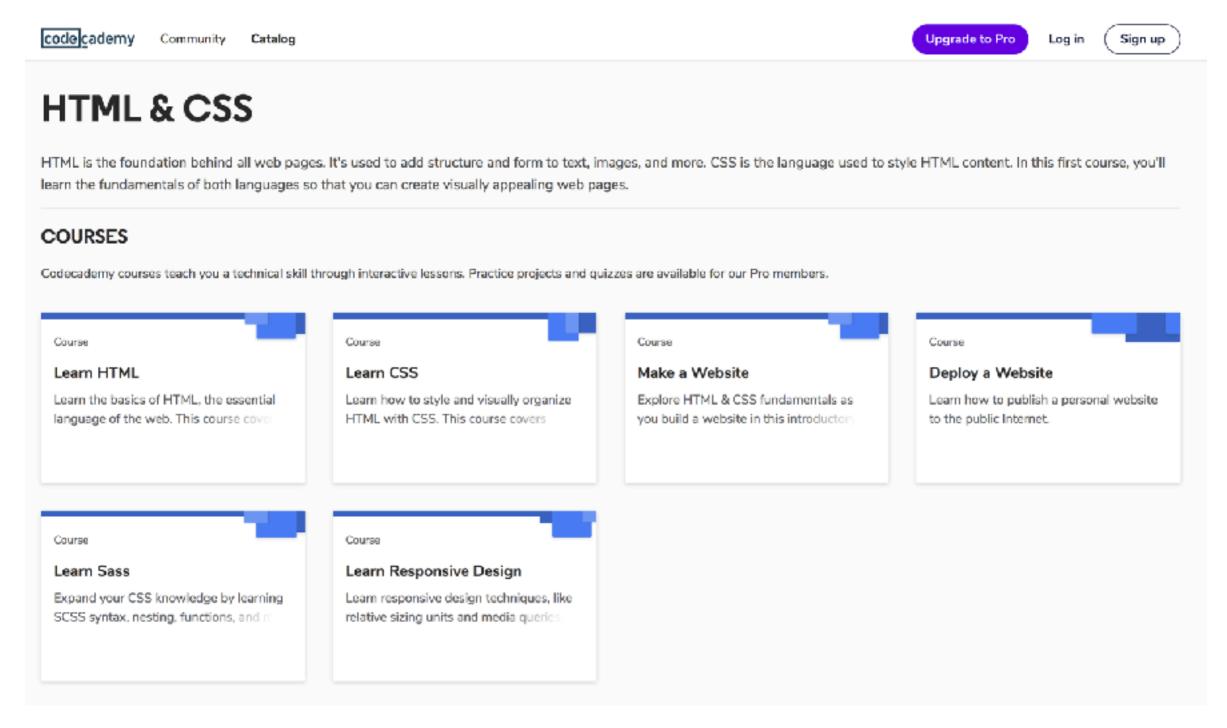# Resources (Free & Rails)

https://www.theodinproject.com/

Resources (Free & kind-of-Rails)

https://github.com/johnmosesman/after_the_rails_book
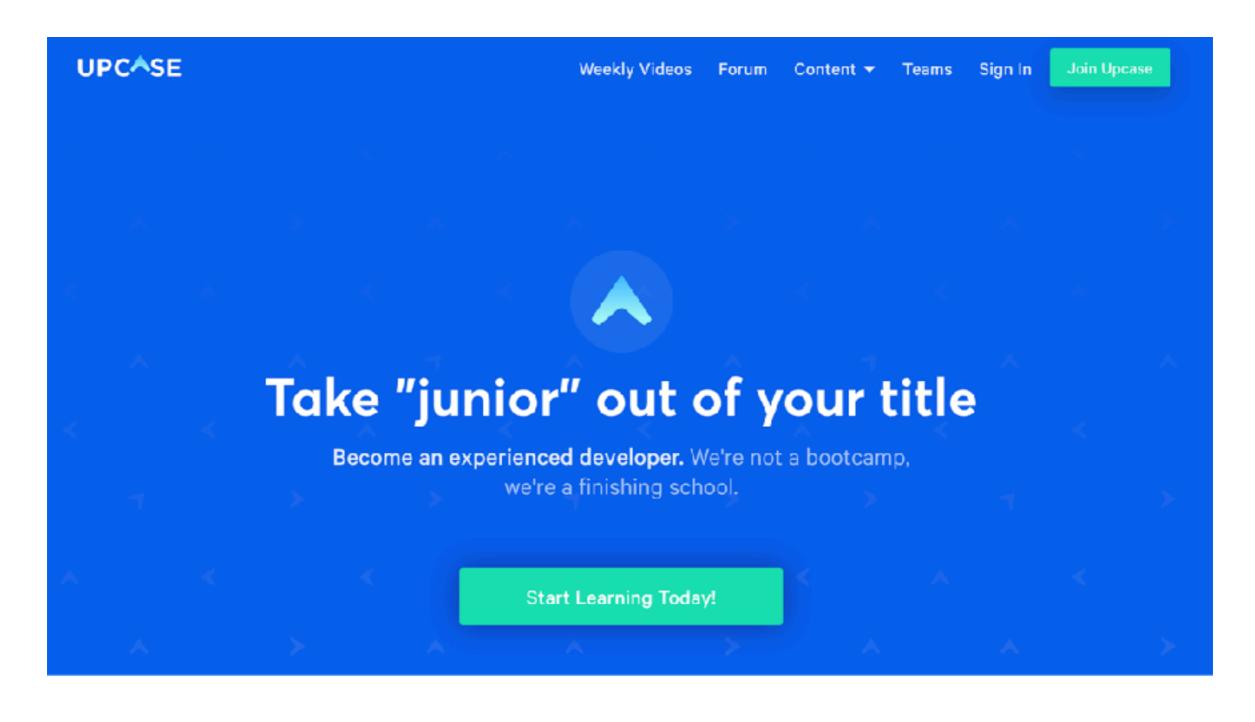
Resources (Free/Paid)

Resources (Paid)

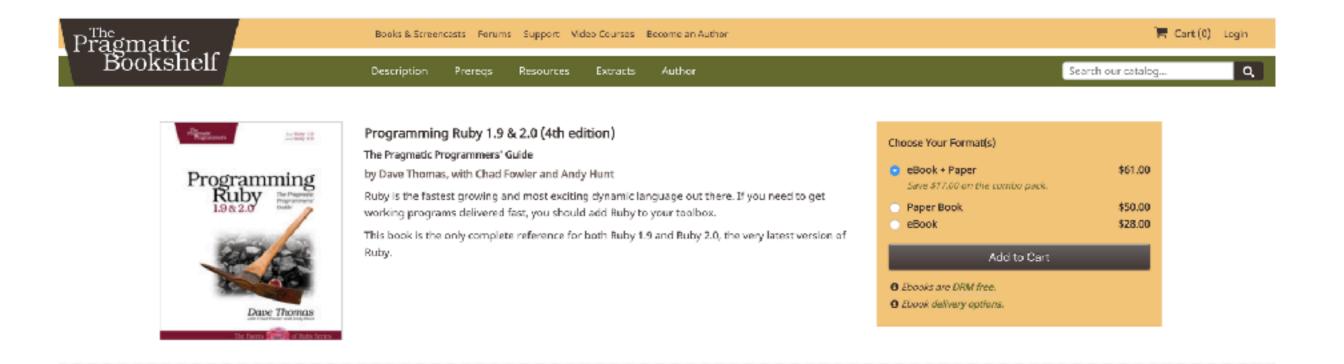

https://www.udemy.com/

Resources (Paid)

https://thoughtbot.com/upcase

Resources (Paid)

https://pragprog.com/book/ruby4/programming-ruby-1-9-2-0

Misc Tech Things

- https://blog.codinghorror.com/

- https://news.ycombinator.com/ or (https://www.hackernewsletter.com/)

- Thoughtbot - https://robots.thoughtbot.com/, https://thoughtbot.com/podcasts

- http://hanselminutes.com/

- https://xkcd.com/

Thanks!

@johnmosesman