

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.

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



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<https://learn.freecodecamp.org/>

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

Resources (Free)

HackerRank 

<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)



Ruby on Rails Tutorial (Rails 5)

Learn Web Development with Rails

Michael Hartl

Newly updated for Rails 5, the Ruby on Rails Tutorial book and screencast series teach you how to develop and deploy real, industrial-strength web applications with Ruby on Rails, the open-source web framework that powers top websites such as Twitter, Hulu, GitHub, and the Yellow Pages. The Ruby on Rails Tutorial book is available for free online and is available for purchase as an ebook (PDF, EPUB, and MOBI formats). The companion screencast series includes 14 individual lessons, one for each chapter of the Ruby on Rails Tutorial book.

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<https://www.railstutorial.org/book>

Resources (Free & Rails)



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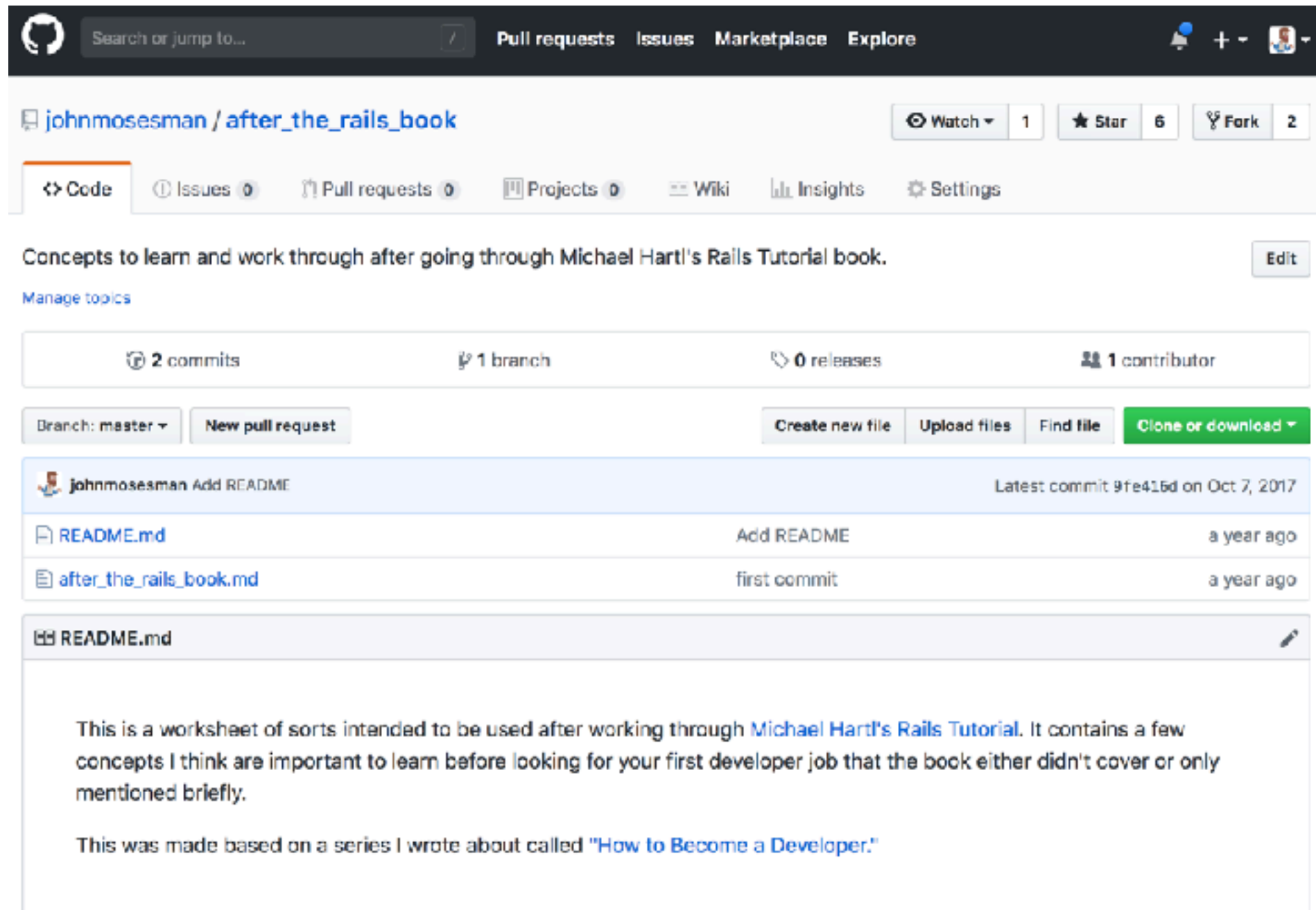
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<https://www.theodinproject.com/>

Resources (Free & kind-of-Rails)



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Concepts to learn and work through after going through Michael Hartl's Rails Tutorial book. Edit

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johnmosesman Add README Latest commit 9fe416d on Oct 7, 2017

README.md	Add README	a year ago
after_the_rails_book.md	first commit	a year ago

README.md

This is a worksheet of sorts intended to be used after working through [Michael Hartl's Rails Tutorial](#). It contains a few concepts I think are important to learn before looking for your first developer job that the book either didn't cover or only mentioned briefly.

This was made based on a series I wrote about called "[How to Become a Developer](#)."

https://github.com/johnmosesman/after_the_rails_book

Resources (Free/Paid)

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HTML & CSS

HTML is the foundation behind all web pages. It's used to add structure and form to text, images, and more. CSS is the language used to style HTML content. In this first course, you'll learn the fundamentals of both languages so that you can create visually appealing web pages.

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Learn the basics of HTML, the essential language of the web. This course covers

Course

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Learn how to style and visually organize HTML with CSS. This course covers

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Make a Website

Explore HTML & CSS fundamentals as you build a website in this introductory

Course

Deploy a Website

Learn how to publish a personal website to the public Internet.

Course

Learn Sass

Expand your CSS knowledge by learning SCSS syntax, nesting, functions, and m




Course

Learn Responsive Design

Learn responsive design techniques, like relative sizing units and media queries.

<https://www.codecademy.com/catalog/language/html-css>

Resources (Paid)

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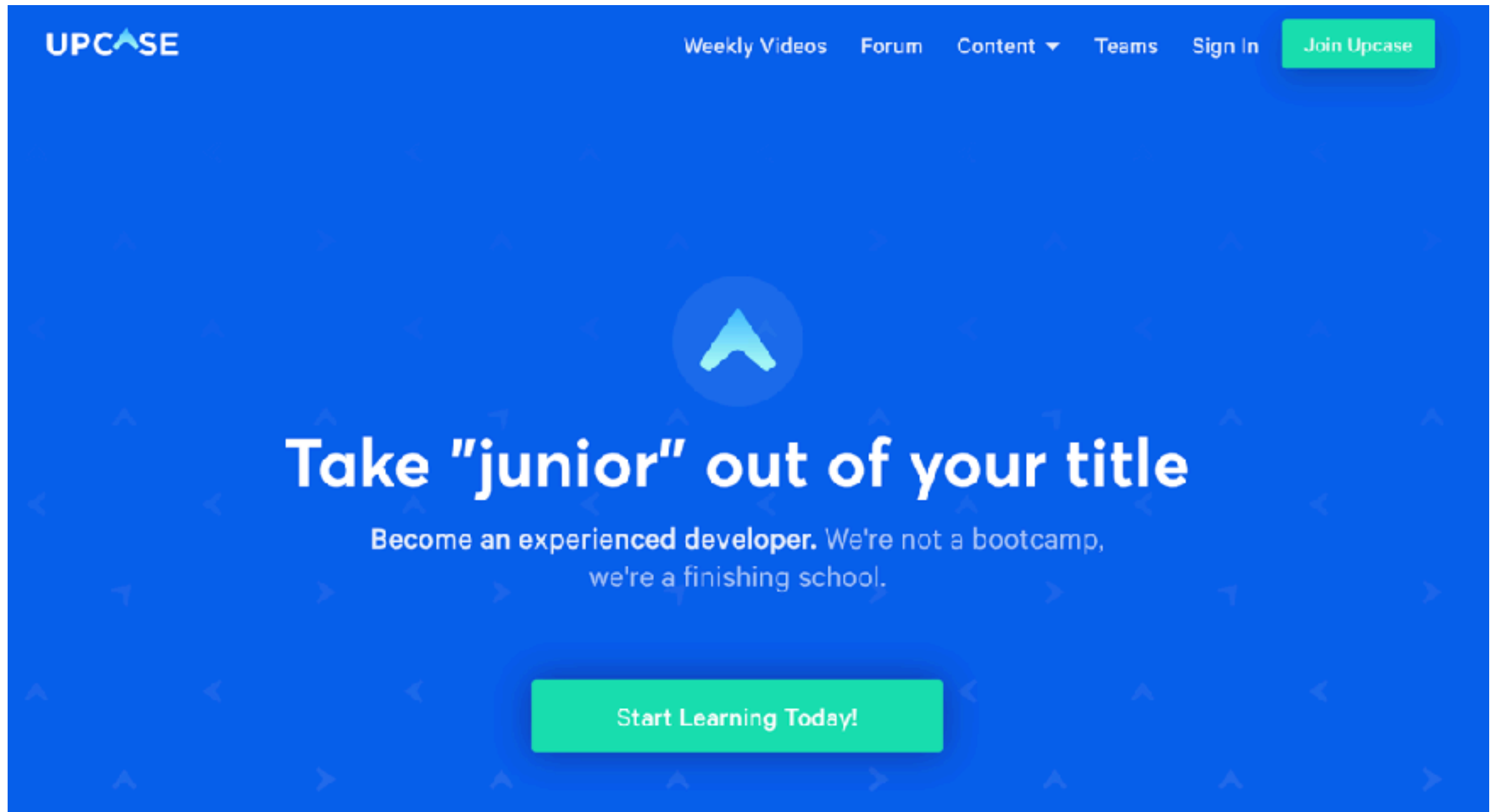
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Resources (Paid)



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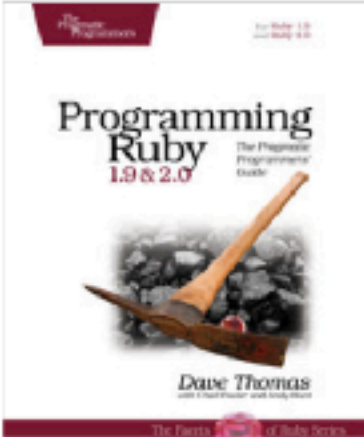


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The Pragmatic Programmers' Guide

by Dave Thomas, with Chad Fowler and Andy Hunt

Ruby is the fastest growing and most exciting dynamic language out there. If you need to get working programs delivered fast, you should add Ruby to your toolbox.

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- <http://hanselminutes.com/>
- <https://xkcd.com/>

Thanks!

@johnmosesman