

Coding for Adults

Win Treese
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The Language Landscape

What language should I learn?

- Javascript

- Python

- Java

- C/C++

- Ruby

- R

- Go

- Lisp

General advice for learning more (in no particular order)

- Pick a project to build
- Look through several different books about the language
- Try a different approach if the path you're on isn't working for you
- Coding is a craft, not a science or engineering discipline
- Sometimes things seem arbitrary and mysterious....and that's just the way they are
- Search online:
 - Google
 - Stack Overflow (<http://stackoverflow.com>)
- Use flashcards (<https://sivers.org/srs>)

Javascript Resources

- FreeCodeCamp (freecodecamp.org)
- Videos on [lynda.com](https://www.lynda.com) (free access through Wayland Library—see online resources on the web site)
- Book/site: Eloquent Javascript (<http://eloquentjavascript.net>)
- 30 projects in 30 days: <https://javascript30.com>
- Google for things like “how to learn javascript” or “best book for learning javascript”
- [Approaching a Javascript project](#)
- [Build a 2D Breakout game](#)
- Don't dive into frameworks too quickly (Angular, React, JQuery, etc.)

Python Resources (Part 1)

- Watch out for version confusion (Use Python 3.x, not Python 2.7)
- FreeCodeCamp ([freecodecamp.org](https://www.freecodecamp.org))
- Videos on [lynda.com](https://www.lynda.com) (free access through Wayland Library—see online resources on the web site)
- Google for things like “how to learn python” or “best book for learning python”
- [Approaching a Javascript project](#) (mostly applicable to any project)

Python resources (Part 2)

- Learn Python the Hard Way (site/book)
- Python for Beginners (site)
- Automate the Boring Stuff with Python (book/free to read online)
- Python challenge (site)
- How to think like a computer scientist (book/free to read online)

R Resources

- FreeCodeCamp (freecodecamp.org)
- Videos on [lynda.com](https://www.lynda.com) (free access through Wayland Library—see online resources on the web site)
- [R Studio learning resources](#)

The Programmer's Toolkit

- Learn a good editor
 - Atom, Emacs, vim
- Integrated Development Environments (IDEs)
 - Example: PyCharm for Python
 - For Javascript, turn on developer tools for your browser
- Learn about your operating system
- Libraries
- Compiler
- Runtime
- Beginner project ideas