

INTRO TO CODING

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LEARNING OBJECTIVES

- By the end of today's lesson, you will be able to:
 1. Define, generally, what coding and software development are
 2. Describe key software development languages, and explain what each of their utility is (how they fit into the bigger picture)
 3. Write your own first bit of code! (We'll dabble in Python and HTML)


AGENDA

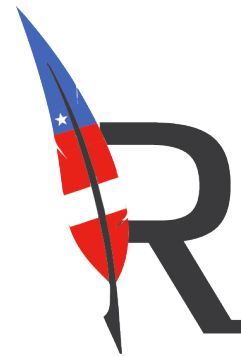
- Introduction
- What is Coding?
- Describe Key Software Development Languages
- Write Code
- Next Steps: Resources

“ ”

All models are wrong. Some are useful.

— George Box, 1978

- Lead Data Science Immersive Instructor 
- **From:** Des Moines, Iowa
- **Influences:** Marc Andreessen & Ben Horowitz, Zuckerberg, Andrew Ng, Yann LeCun, Jürgen Schmidhuber
- **Likes:** Hockey, SaaS, bad data science puns, running



YOU

- YOU
- Name
- Coding exposure (0 to 5) – Dabbled? Never seen?
- Why you want to learn to code? (Build websites? Make apps? Data analysis? Interactive plotting?)

WHAT IS CODING?























- Shout out your answers!

WHAT IS CODING?

- Coding is the act of programming a device to complete a very specific set list of commands
- Software programs make *so much* possible for us! Pixar, Google, our phones, Metro delays, you name it!

LOOKING AT EXAMPLES...

- We'll now shift our discussion to walking through specific languages and their applications

Language Rank	Types	Spectrum Ranking
1. C	  	100.0
2. Java	  	98.1
3. Python	 	98.0
4. C++	  	95.9
5. R		87.9
6. C#	  	86.7
7. PHP		82.8
8. JavaScript	 	82.2
9. Ruby	 	74.5
10. Go	 	71.9

NEXT STEPS

- Keep in touch!
- If you like data:
- www.josephofiowa.com/entropy
- Otherwise, use the resources linked with this lesson online!



@josephofiowa

