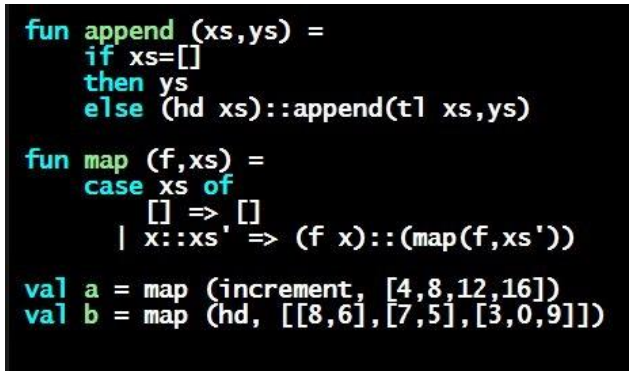

Programming Languages

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Recommended Background

Assumed background

- *Not* an introductory programming course
  - Assume you have at least 1-2 programming courses

- *Not* an advanced course on programming languages
  - Won't assume you are an experienced programmer

Somewhere in the middle…

Things I assume you know (a little)

- Variables, conditionals (if), loops, arrays
- Recursion (okay if lack a little confidence for now)
- Implementation vs. interface (abstraction, modularity)
  - Possibly/probably using object-oriented programming
- Basic data structures: linked lists, binary trees
- Dynamic-dispatch
  - Also known as method overriding, subclassing, …
  - But not needed for first 2/3 of course and then will review

Any particular language

- Fine if you mostly know Python or Javascript or…
  - What matters are the concepts on the previous slide
- Occasionally compare to Java in optional videos (not on homework)
  - If know C#, can probably follow along
- Will more rarely compare to C in optional videos (not on homework)
  - Can be very useful if you understand some C (or learn C later)

Really will "start programming over from the beginning"

- Moving way too fast unless you have programmed some before

An example

- This course is derived from a university course with specific preceding courses

- Here is something students "on campus" could do/follow
  - But not this fast (I'm the teacher and I'm "cheating")
  - And it's fine if you're rusty or don't know Java or…

- Not intended to intimidate you – all are welcome
  - Trying to show how I "live code" throughout the course
    - But here with less explanation!
    - Showing what I mean by "programming experience"