# **Introduction**

CS 350

Dr. Joseph Eremondi

Last updated: June 18, 2024

# **Course Overview**

### To learn:

Functional programming

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- Functional programming
  - o Recursion

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- To change how you think about programming

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 2nd edition, by Shriram Krishnamurthi

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  - o Similar content but very different approach

## **Grading scheme**

• 25% assignments

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Doing the assignments is the best way to study

Programming

**Motivation: Functional** 

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- We'll learn more why this distinction is fuzzy

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    - Unless otherwise specified

# Will I Ever Use Racket in Industry?

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(probably)

# **Future Proofing**

• Don't know what you'll use in industry in 10 years

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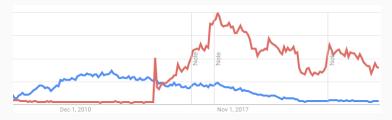
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  - o Racket is effective for learning how languages work

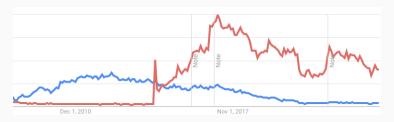
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#### **Objective C vs Swift**

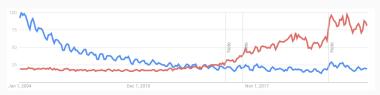


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#### C++ vs Python



# **Syntax Vs Semantics**

Semantics

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- Learning these features in Racket will help if/when they show up in other languages in the future

# **Motivation: Interpreters**

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    - . The CPU is just an interpreter for machine code

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  - How to know that it's doing what you think it does

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· It's just a bunch of tree traversals