

Programming Languages

The background is a solid teal color. It features several decorative elements: a large, semi-transparent pie chart in the upper right quadrant; several smaller, semi-transparent pie charts scattered in the upper right and middle right areas; and a bar chart in the bottom right corner with four vertical bars of increasing height from left to right.

CSE 160 Section 9
Kat Wang



Why are we talking about it?

- Programming Languages seem very different from each other
- Some languages ARE harder to learn than others.
- Different programming languages have different functions.



Main modern programming languages you might be interested in:

- HTML/CSS *
- Javascript
- Python
- Ruby
- Objective C/ Swift
- C#
- Java/ Kotlin



HTML/CSS

- For Websites
- Not really programming languages
- CSS is for styling while HTML is for the content
- https://www.w3schools.com/html/tryit.asp?filename=tryhtml_default



Javascript

- For Websites mainly
- Adds interactive features to websites
- Is now used for more than just websites(Unity, Desktop apps)
- https://www.w3schools.com/js/tryit.asp?filename=tryjs_myfirst



Python

- General purpose language, great first language
- Instagram uses Python
- Guido van Rossum, the author of Python Programming Language was reading the first published draft script of “Monty Python's Flying Circus”, a 70s BBC Comedy. He wanted a short succinct name for the language and his love for Monty Python was the reason for naming the language Python.



Ruby

- Ruby on rails
- Lot's of startups uses Ruby
- Hulu and Airbnb both use Ruby
- <http://www.rubyist.net/~slagell/ruby/examples.html>



Objective C/ Swift

- PLs for Apple devices!
- Hard to learn but very rewarding
- <https://medium.com/@mimicatcodes/simple-higher-order-functions-in-swift-3-0-map-filter-reduce-and-flatmap-984fa00b2532>
- <https://www.youtube.com/watch?v=N-GNV7jhKV4>



C#

- Built by Microsoft
- Can be used for Unity, mobile devices.
- Error handling
- <http://www.csharp-examples.net/linq-aggregation-methods/>



Java/ Kotlin

- Java is not related to Javascript.
- Java powers lot's of Android apps and web apps.
- Kotlin is a more efficient version of Java. But you should learn Java first.
- <https://www.cs.utexas.edu/~scottm/cs307/codingSamples.htm>



Which Do I Choose?

- What do you want to build?
- What do you want to do?