CSE 230 Programming Languages

ZOOM 101

Please "mute" your Mic By default, unless I call on you

If you have a question

"raise hand" or type question in chat

Lectures split into ~ 3-4 segments ~15 mins "lecture" + ~5 mins "exercise"



Tony Hoare Turing Award Lecture 1980

"There are two ways of constructing software. One way is to make it so simple, that there are obviously no deficiencies, The other way is to make it so complicated that there are no obvious deficiencies."

Readable

Reusable

Modifiable

Predictable

Checkable

Yes, but how?

Functional Programming(?)

Functional Programming ?

No Assignment. No Mutation. No Loops.

PL Researchers.

Functional Programming?	
Readable	
Reusable	
Modifiable	- Parallelizable
Predictable	
Checkable	



MapReduce







Microsoft[®]

F#



Scala



Erlang



Erlang

CSE 230

CSE 230: Medium of Instruction



Bleeding edge PL.

Beautiful.

Blows Your Mind.



Alan Perlis Epigrams In Programming

"A language that doesn't affect how you think about programming, isn't worth knowing"

Fun.

CSE 230 : Outline

Readable -1. FP & Abstraction

Modifiable Predictable - 2. Types & Analysis Checkable

CSE 230 : Webpage

All materials (lectures, assignments, piazza) at:

https://ucsd-cse230.github.io/fa21

Please sign yourselves up at PIAZZA

CSE 230 : Lectures on Zoom

Recordings available on CANVAS

Each lecture is about 3-4 segments

- ~15 mins "RJ: lecture/Q&A"
- ~5 mins "You: exercise"

CSE 230 : Grading

[70%]: 4~5 Programming Assignments

[30%] : Final Project

[5%] : Extra Credit for top-15 Piazzars

