

mecha guinea pig go go go

about the class

goals

- help you become the best programmer you can be
 - CS136 is the foundation for all the programming you will do after!
- have fun
 - let's code up some cool stuff from scratch!

what to expect

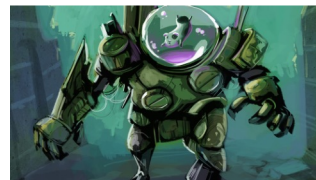
- the **lectures** should make sense (especially on Monday)
 - if something doesn't make sense, raise your hand!
- the **homework** should take 10-15+ hours per week
 - if it's too hard, let's chat!--we will make a plan for success
 - *"We don't all have the same floor or ceiling, but we each have a lot more in us than we know, and when it comes to [programming], everyone can achieve feats they once thought impossible. --David Goggins*
 - if it's too easy, do the extra credit!
 - *"We're either getting better or we're getting worse." --David Goggins*
- the **exams** should be challenging yet also completely unsurprising

week at a glance

- 🗓 Monday will be a lecture
 - often, i will explain a data structure
- 🗓 Wednesday will be a tutorial
 - often, we will implement a data structure together, step by step (bring your laptop!)
- 🗓 Thursday is lab
 - you work on the homework (definitely bring your laptop!)
- 🗓 Friday is time for Kahoot! and advanced topics
 - Kahoot's are meant to prepare you for the exams' shorter questions
 - advanced topics will not be on the exams, though understanding them may certainly help you on the exams

are you guinea pigs?

- yes
 - however
 - 1) guinea pigs are awesome, and
 - 2) i am very excited to teach this course 😊👍



difficulty, inclusivity, and programming and a lifetime of coding

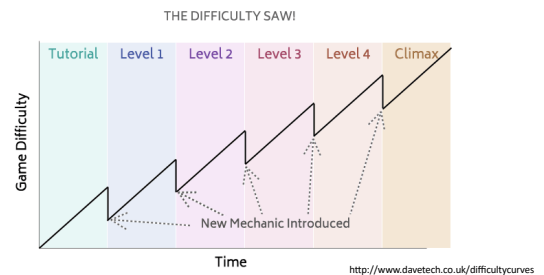
how different are our backgrounds?

- let's find out!
 - what is an ArrayList?
 - what does *mens rea* mean?
 - what is the integral of $x^2 + 5x$?
 - what happened in Guatemala in 1954?
 - what does it mean to "shower" in juggling?
 - what is the Nash Equilibrium of the Prisoners' Dilemma?
 - consider two cups that are just about to overflow with water. one also has some ice floating in it. which weighs more? why?
- 🧑 is there anyone here who knows the answer to all the questions?
- 🧑 is there any question that *no one* knows the answer to?

our backgrounds are very different...

- ...but my goal is for this class to be fun and accessible for everyone here
 - each week of lecture will follow an easy-to-hard difficulty ramp
 - Monday is easier
 - Wednesday is harder
 - Friday is hardest
 - each homework will follow an easy-to-hard difficulty ramp
 - B is easier
 - A is harder
 - S is hardest

the course as a whole should follow a saw



there is no finish line

- it's 10+ years since i took the equivalent of CS 136
 - i still code almost every day
 - i still learn something new almost every day
 - i still feel like i have no idea what i'm doing almost every day

tutorial 0