

# Any sufficiently advanced technology is indistinguishable from magic

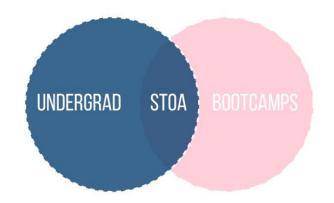
Arthur C. Clarke



### The Destination 🚀

- Created challenging, applicable & interesting projects
  - Varying project sizes, from narrow to larger in scope
- Contributed to an open-source project
- Written blog posts
  - Varying in technical complexity
- Exposure to industry practices
- Experienced different languages
  - By proxy, different systems of thinking
- Expanded your thinking & learned more about yourself







## The Principles 📜

Informs the spirit & motivations of the course

- Creation is divine
  - From Zero to One
  - The future will be better & we will help plan & build it
  - What are the impacts of our creations?
  - Science & engineering excellence as public service
- Curiosity, openness & enthusiasm are treasured
  - Just For Fun learning (& requires learning autonomy)
  - Fostering a sense of play as the key to continuous learning
- Audacity to explore, to create & to learn
  - Courage to venture the path
- Unrelenting insistence & expectation of excellence
  - An exception to the rule



## The Principles 📜

- Reasoning from First Principles
  - Robustify knowledge via ideating & tinkering
  - Known principles easily converted into methods.
    Known methods hard to convert into principles.
  - What would an ideal (\_\_insert\_\_) look like?
- Future-driven
- Non-dogmatic
- Occam's razor
- Writing as a first-class citizen
- Interaction with knowledge is core to deep understanding



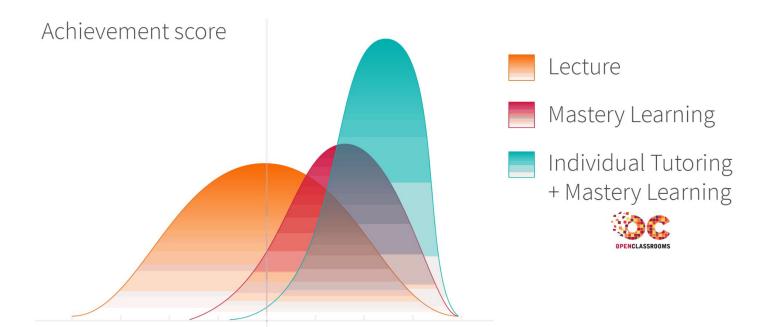
# The Design 📐

#### Informs the structure of the course

- Anti-Parallel Learning
- Harnessing the Pareto principle
  - Googlability built-in
- Apprenticeship model (non-scalable)
  - Bloom's 2σ problem
- Encouraging mastery learning & rabbit-holing
  - Friends don't let friends believe in magic



# The Design 📐





# The Design 📐

- Empiricism
  - Task-oriented authoring code & posts
  - Transmute belief (🌑) into deep knowledge (🏆)
- Spaced repetition
- Self-teaching
  - learning to learn in the internet age
- Learning via the deep end
  - Take on ambitious projects, you either succeed or you learn but it is always worth it



## The Proposed Protocol 🗱

- Minimal note taking engagement is more important
  - Scribbles for things to revisit
- Slides rarely used (😅)
- Relentless enquiry 🧠

-











## Disclaimers 1

- / K experimental / K (v0.1 for a reason!)
  - We're both learning!
- Consider me a guide & not an omniscient source!
  - You must assume the responsibility for what you believe
  - "Don't Trust, Verify"
- The computer is unrelenting so you might get frustrated!

