# Computer Systems

- key to knowing how stuff works
- conceptual beautiful
- "systems mindset"

prog

magic! { OS kernel }

H/w

## what is an OS? / what does it do? / what is it there for

- managing processes
  ↖ created this abstraction
- creates abstractions → ("abstracts H/w")
- managing resources (CPU, mem, I/O

- library

"virtualizes"

app
H/w

- safely (protection)
- multiplexes