Welcome to OS Class!

Tyler Harter
Overview

• Introductions

• Background

• Demo: Three Easy Pieces

• Course Overview
Introductions

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You?
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Prerequisites

- **CS 367**: data structures, basic programming in Java
- **CS 354**: machine organization, C, some assembly
CS 354 Review

CPU

Memory
CS 354 Review

CPU

Memory

Disk
CS 354 Review

CPU

Memory

Disk

fetch
CS 354 Review

CPU

Memory

load

Disk
CS 354 Review

CPU

exec

Memory

Disk
CS 354 Review

CPU

Memory

store

Disk
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What does an OS do?
What does an OS do?

• Virtualizes (gives illusion of private resources)
• Manages resources
• Acts as a library
Tools used

- **bash** (saw concurrent process execution)
- **emacs** (text editor)
- **gcc** (preprocessor, warning flags)
- **otool/objdump** (disassemble)
- **dtrace/strace** (trace calls)
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