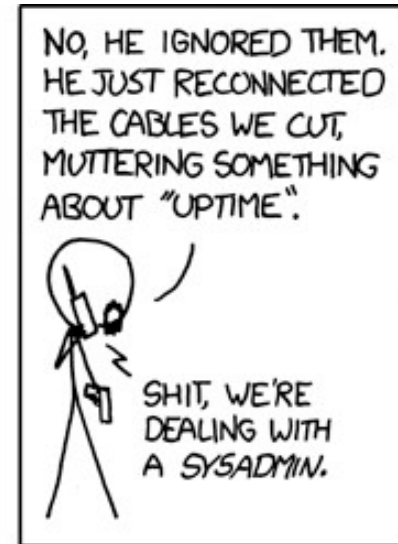
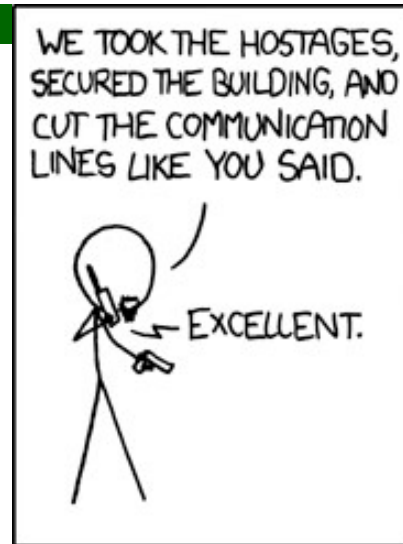


# Welcome to CS312

Benjamin Brewster

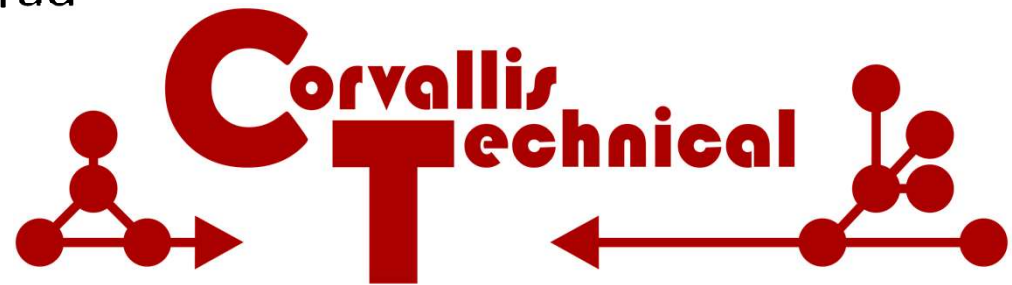
# Who You Are

- Done with CS344
- Done with CS372
  - (or concurrent)
- Interested in CS, EE, and Engineering
  - Engineering is applying science within temporal and budgetary constraints
- You're already the go-to person amongst your friends for IT help, aren't you? Or you want to be that person?
- Who is a sysadmin? Who thrives in chaos, constant change, being the doctor, the hero, the jack-of-all-trades, the irreplaceable?



# Who Ben Brewster Is

- I've been taking things apart my entire life
- Worked for IT groups as an undergrad
- Started CT as a grad student
- Grew it to largest IT company in the mid-Willamette valley
- Sold CT to teach at OSU
- Convinced OSU to let me rebrand Linux System Administration as just System Administration
- He's very excited



# What We Will Learn - the Art of IT

- The Art of IT: Design, Deployment, Maintenance
- System Administration is an art
  - There are problem-solving and observational skills we can't teach, but they involve divide and conquer, perception, inquisitional precision, and experience
- All good art is bound by rules
  - Jackson Pollock just stuck to lines, splotches, and dots
- Experts break the rules
  - Sometimes you've seen enough to cut through all the clutter
- Mavericks break the rules, get fired, sued, write a book, then get hired back for 3 times their salary



# What We Will Learn - Course Subjects

- Hardware
- Storage
- Operating Systems
- Virtualization
- Containerization
- Automation
- Server Tech
- Active Directory
- Network Deployment
- Kali & Hacking Tools
- Squishy Stuff: Management, SLA, etc.
- How to Start an IT Company



# How We're Going to Learn

- Lectures, 75% of which are Hands-On: our focus is on the practical usage, experience, and differentiation of application:
  - We'll sometimes go into design and science
  - Rarely get into history, even though I'd like to do more
- Homework
  - Your source for much of the info in this course must necessarily be from the internet.
  - This isn't because of laziness on my part, but because no book is current on these topics
  - Get used to discerning between lies, damn lies, statistics, advertisements, and truth
- Labs
  - Experience the joys of cutting your fingers, lithium poisoning, and fscking disks
- Discussion: Piazza & Slack



# What We're Going to Do For the Rest of Today

- Intro (these slides)
- Canvas:
  - Syllabus
  - Home Page
- Syllabus Quiz
- Final



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# Key Points to Take Away

- You cannot save money on IT
- You cannot save time in IT
- It is incredibly lucrative
  - For somebody
- We have lots of fun toys

