[Software Development]
Course Intro

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Eurecom – Sophia Antipolis, France

Logistic

- Lectures:
  - Thursday morning at 9:00
  - No labs, your computer is your lab
- Teacher:
  - Davide Balzarotti
  - EMail: davide.balzarotti@eurecom.fr
  - Phone: 04 93 00 81 56
  - Room: 387
- Office hours:
  - Anytime by appointment
    (please send me an email before coming!)
- Web page:
  - `http://s3.eurecom.fr/~balzarot/softdev/`

Why SoftDev?

- Because you come from different universities
  - .. with different backgrounds
  - .. with different programming skills
  - .. with different ability to use a computer
- Most of you grew up using only Microsoft Windows :(
- This course should give you a common background about the concepts of programming and software development in a Unix-like environment
- Prerequisites
  - Very basic knowledge of C
  - Simple algorithms and data structures

What is this Class About

- Problem solving: How to use a computer to quickly solve everyday tasks
  - By using existing tools
  - By developing prototype applications
- Linux command line and Python programming

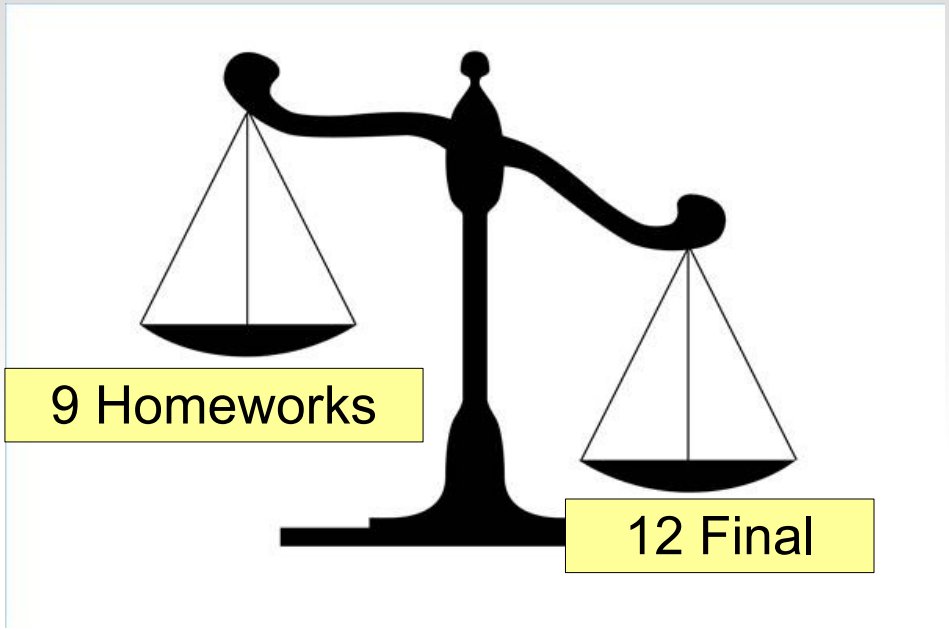
- This is an introductory class for newbies
  but hopefully everybody can learn something new

- Topics:
  - Unix and its philosophy
  - Mastering the command line interface
  - Python
  - Compilers and Makefiles, subversion and git, GNU autotools, and other development tools

Why Unix

- Because 50% of what you know about computing becomes obsolete in 18 months. But Unix provides you with a base of tools and knowledge that you can keep using for years, even decades
- Because knowledge of command-line tools is essential to improve your everyday productivity
- Because is simple, very powerful, and incredibly elegant
- Because real Hackers don't need a graphical interface..
  and for most of the tasks, a keyboard is much faster than a mouse
- Because is not just a different operating system, it's a different way to think!
- Because ... have you ever tried to remotely configure a Windows PC?

Grading



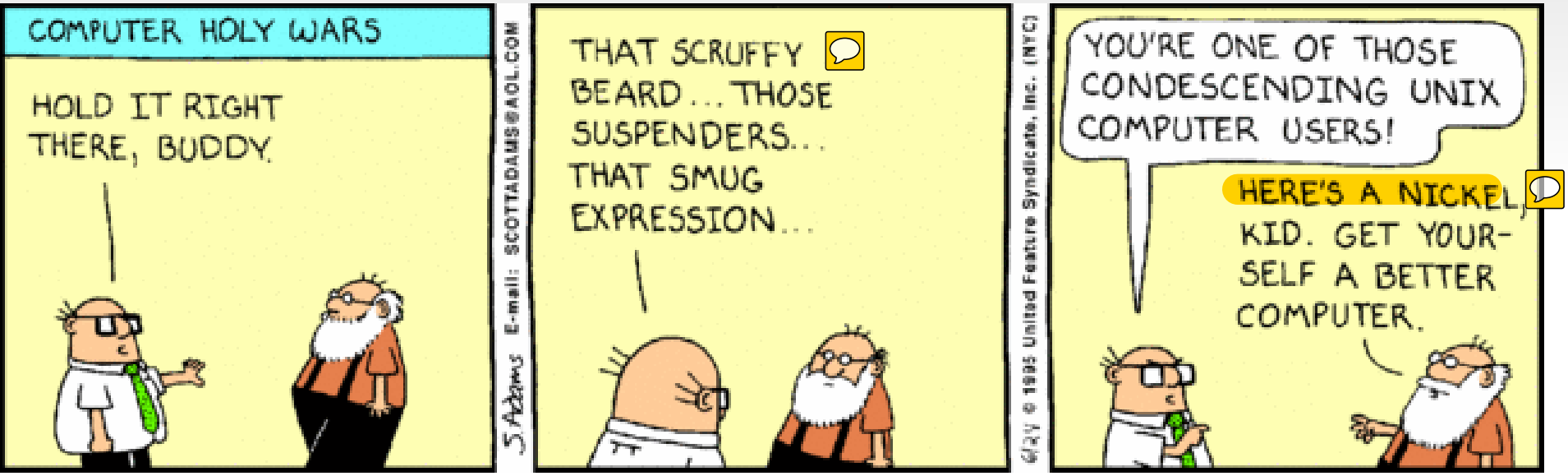
- Written final exam at the end of the course
- Homework assignments will be online in 3/4 weeks (tentative)

Honor and Integrity

- Everything you submit for the course homework must be the result of your own personal effort
- No copying among students will be tolerated
  - All parties involved in cheating will be punished
    (no matter who copied from whom!)
- Internet is an incredible source of information
  - Use it!
    But don't just cut&paste existing code

Feedback

- Any feedback on the course is much appreciated
  - Tell me if you don't understand something
  - Tell me if you don't like something
  - Tell me if I am speaking too fast
  - Tell me if the slides are not clear or if you find any error/typo
  - …
- Don't be shy and help me to make a better course


COMPUTER HOLY WARS
HOLD IT RIGHT THERE, BUDDY.
THAT SCRUFFY BEARD... THOSE SUSPENDERS... THAT SMUG EXPRESSION...
YOU'RE ONE OF THOSE CONDESCENDING UNIX COMPUTER USERS!
HERE'S A NICKEL, KID. GET YOURSELF A BETTER COMPUTER.
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