

# Course Introduction

COMP8440: FOSSD



# A Practical Course

- Most people learn FOSS by doing
  - Very few learn about FOSS through courses
  - Can FOSS be taught? We think so
  - You will be interacting with some free software project of your choice
- Feedback essential
  - You need to let us know what you do/don't understand
  - We are relying on *active* participation by you
    - Get involved in your projects!
    - Ask us to cover new topics
    - Ask plenty of questions

# Preparation is Essential

- *A very intensive course*
  - The week will be quite exhausting
  - You must prepare beforehand as much as possible
- **Read the background material**
  - Essential to understand the FOSS world
- **Make sure you can use a Linux desktop**
  - We will use Ubuntu 15.10 (Wily Werewolf) in the labs
  - Download and install a virtual Ubuntu 15.10 system
  - Run it at home before the course starts
  - Try building some packages from source
  - Make sure you can use the command line
    - <https://help.ubuntu.com/community/UsingTheTerminal>

# Reading Tasks

- Background reading
  - You are expected to read the following articles *before* the course starts
  - Read them carefully and take notes!
- History from Karl Fogel's 'Producing OSS'
  - <http://producingoss.com/en/producingoss.html#history>
- Two articles by Eric Raymond
  - <http://www.catb.org/~esr/faqs/smart-questions.html>
  - <http://www.catb.org/~esr/writings/cathedral-bazaar/homesteading/>
- The GNU Project Free Software Definition
  - <http://www.gnu.org/philosophy/free-sw.html>
- The OSI Open Source Definition
  - <http://opensource.org/docs/osd>

# Join the mailing list

- Join the COMP8440 mailing list now
  - Go to <http://fossd.anu.edu.au>
  - Announcements and discussions will happen on this list
- Please introduce yourself
  - Please send a short email to the list introducing yourself
  - Tell us about any background you have in FOSS

# Course Outline

- Day 1
  - An introduction to FOSS
  - Getting started in a FOSS project
  - Source code management for FOSS projects
- Day 2
  - The history of FOSS
  - Tales from the TOR project
  - FOSS licensing and legal issues
- Day 3
  - How are FOSS projects governed?
  - Linux Distributions
  - FOSS hardware platforms

# Course Outline (2)

- Day 4
  - Case study: Linux kernel
  - FOSS and business
  - Starting a new project
- Day 5
  - FOSS Tales
  - Release early, release often

# Lab Work

- There will be a quiz each morning
- Day 1
  - Installing a FOSS project (specified project)
  - Installing a FOSS project (choice of small list)
- Day 2
  - Finding your own project
  - Study chosen project
- Day 3, 4, 5
  - Work on chosen project and produce a report
- Day 6
  - Project presentations



# Selecting a Project

- Project assessment
  - A large part of the course assessment is based on submission of a project report
  - It is strongly suggested that you start looking at possible projects *now*
- Suggested criteria
  - Project is moderately active
  - at least several commits per month
  - Is at least 3 years old
  - Has produced a usable release
  - Must use a FOSS license
  - Welcomes new contributors
  - Has several active contributors
  - Can run on DCS Linux lab machines (Ubuntu)
  - Is interesting to you!

# Selecting a project (2)

- Suggested Resources

- <http://freecode.com/>
- <http://gna.org/>
- <http://sourceforge.net/>
- <http://github.com>
- <http://savannah.gnu.org/>
- <https://launchpad.net/>
- <http://directory.fsf.org/GNU/>
- <http://packages.debian.org/>
- language specific sites (for programming languages you know)

# Assessment

- Morning quizzes
  - 5% of total mark
- Saturday presentation
  - 15% of total mark
  - Very short presentation!
  - Very little time to prepare – work hard!
- Project study
  - 40% of total mark
  - Report of approximately 10–15 pages expected
  - See web site for detailed description
- Project work
  - 40% of total mark
  - Report of approximately 10–15 pages expected
  - See web site for detailed description

# Learning Linux

- Knowledge of Unix/Linux
  - The course assumes you have some familiarity with Linux/UNIX
  - If you don't feel confident of your skills, please learn before the course starts
- LiveCD
  - Try a Ubuntu LiveCD before you come
  - Go through one of the Linux command line tutorials
  - Try compiling and running some FOSS projects
- Install in a virtual machine
  - Use VirtualBox (<http://www.virtualbox.org>) and install or use a LiveCD

# Food!

- Enjoy the nibbles
  - Please ask questions, and say hello to the other students in the course