

CS 360: Open Source Software Development

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What is Open Source?

Free vs Open

Proprietary

Goals

Fork

Assignment Zero

- Fill out the survey on the class web page
 - DUE: 11:59 pm, Tuesday, Aug 26.
 - ~~anonymous: you must log in using PUNetID but I don't store your PUNetID.~~
- I want to know your software development background and interests
- Be prepared to discuss your answers on Wednesday.

Welcome!

- How did I spend my sabbatical
 - GitHub
 - <http://github.com/chaddcw>
 - <http://openstates.org>
 - <http://mozilla.org>
 - <https://github.com/papers-we-love/papers-we-love>
 - <https://github.com/IQAndreas/github-issues-import>

2  openstates/or/legislators.py

			@@ -96,6 +96,6 @@ def scrape(self, chamber, term):
96	96		name='Capitol Office',
97	97		address=info['Capitol Address'],
98	98		phone=phone,
99	-	-	email=info['Email'].attrib['href'])
	99	+	email=info['Email'].attrib['href'].replace("mailto:", ""))
100	100		
101	101		self.save_legislator(leg)

Success

- Emily Stolfo's* 5 Hacker Habits
 - 1) Treat the Internet as your textbook
 - 2) Be able to debug code you didn't write
 - 3) Build something to solve a real-world problem
 - 4) Engage with the community
 - 5) Think critically about code

*Adjunct professor at Columbia University, MongoDB Ruby Driver engineer, 10Gen

<http://opensourcebridge.org/sessions/1083>

Goals

- Understand what Open Source Software is
 - For example: What is a software license?
- Understand the Open Source Development model
 - Tools
 - Communication / Collaboration / Culture
 - Process
 - get in the habit of speaking “Open Source”
 - get some Linux experience
- Practice the Open Source Development model
- Be ready to **Participate** in a live Open Source project
- As much in class practice time as possible!

Syllabus

- No book
 - various online readings / videos
 - I expect you to complete the readings before class
- Schedule
- Grading
 - Assignments/Exams/Quizzes
 - **Presentations**/Participation/Attendance
- Policies
 - Late Policy
 - Grade Complaints
- Moodle

Exams

- First exam
 - ~ Oct 1
 - Open Source tools, process, vocabulary, concepts
- Second Exam
 - ~ Nov 7
 - Python programming
- Final Exam
 - ~ Dec
 - No exam, present your final project.

Requirements

- Very diverse set of backgrounds here!
- Lab days (Skill building days):
 - You must do assigned reading before class
 - You will have time in class to complete exercises
- Presentations
- Command line / Linux
- Start with Eclipse C
- GitHub
- Python

Roles

- My Job:

- provide practice with tools
- provide practice with open source methodology
- guide you through the evaluation of open source projects
 - keep you from going down the wrong path
- provide as much in-class practice as possible
- guard against some project becoming a huge time sink

- Your Job:

- effort is the most important quality
- come see me if you feel lost or confused
- do the readings
- come to class prepared to discuss
- practice the tools and methodology outside of class
- participate - there are many ways to participate

Mozilla

- Firefox
- Thunderbird
- Seamonkey

- Good, well documented process
- Easy to build from source

- Lots of good examples
- Interesting forks

Assignment 1 – Group work

- Find 2 Open Source projects you use or are interested in
- For each project, answer the following questions:
 - How many people are working on the project?
 - Does the project clearly define the communication channels between developers?
 - How active is the project?
 - Are there clear starting points for someone interested in helping with the project?
 - How are bugs and feature requests tracked?
 - Do you think you could download and **install** this project?
 - Do you think you could download and **build** this project?
 - what are the dependencies?
- Post your two project names on Moodle.
- Be prepared to present your findings in class!

- email me your answers

http://www.xcitegroup.org/softhum/doku.php?id=f:assignment_ossfieldtrip2

Resources

- <http://lwn.net/>
- <http://www.osnews.com/>
- <http://distrowatch.com/>
- <http://freecode.com/>
- <http://www.ohloh.net/>
- <http://github.com/>
- <http://sourceforge.net/>
- <http://opensource.org/>
- <http://opencollab.com/>
- <http://opencollab.com/>

What is going on in
Portland?

<http://calagator.org/>