



Oregon State
University



open source

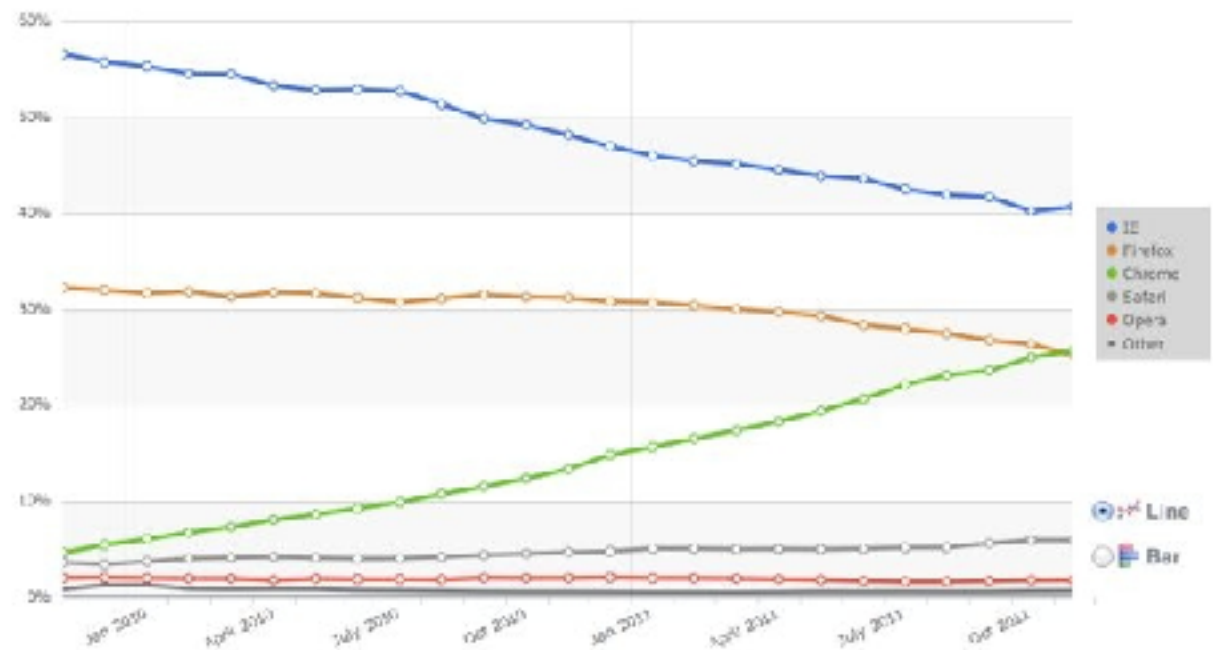
Announcements

- Today
 - OSS
 - Quiz
 - Code review
- Thursday - Interview with Shane McKee
- Final Review
 - Sheet made available tonight
 - Read before Thursday class
- Students can showcase their projects
 - 5 minutes
 - Let us know by Wed (tomorrow) 4 PM



Open Source Successes

- Back End Infrastructure
 - Apache Web Server
 - SAMBA File Sharing
- Programming Languages
 - Perl, Python, PHP, Ruby, Java
- Web Applications
 - WordPress, Drupal
- Web browsers



FSF – Free Software Foundation



GPL: Copy Left



FSF

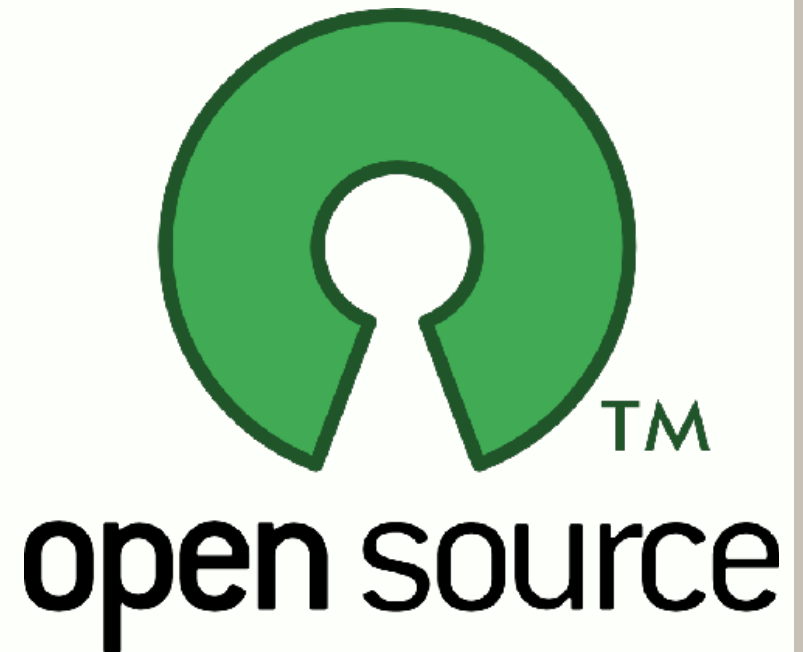
F1: The freedom to run the program as you wish, for any purpose

F2: The freedom to study how the program works, and change it so it does your computing as you wish

F3: The freedom to redistribute copies so you can help your neighbor

F4: The freedom to distribute copies of your modified versions to others

FSF vs. Open Source



Open Source Initiative

1. Free Redistribution
2. Source code available
3. Derived Works
4. Integrity of The Author's Source Code
5. No Discrimination Against Persons or Groups
6. No Discrimination Against Fields of Endeavor
7. Distribution of License
8. License Must Not Be Specific to a Product
9. License Must Not Restrict Other Software
10. License Must Be Technology-Neutral

<http://www.opensource.org/docs/osd>

<https://opensource.org/history>

JSON originally used this license

```
/*  
 * ...subject to the following conditions:  
 *  
 * The above copyright notice and this permission notice shall be included in all  
 * copies or substantial portions of the Software.  
 *  
 * The Software shall be used for Good, not Evil.  
 *  
 * THE SOFTWARE IS PROVIDED "AS IS"..  
 */
```

Open Source licenses

- BSD family
- GPL family
- MIT license
- Apache license (Apache-2.0)
- Mozilla license (MPL-1.1)
- Even Microsoft has open source licenses
 - Microsoft Public license
 - Microsoft Reciprocal license

Types of Licenses

- Permissive:
 - They allow the licensee a wide range of rights, including creating proprietary derivative works:
 - BSD, MIT, Apache
- Reciprocal:
 - In return you should release any derivative works under the same license:
 - GPL, MPL

Which one to choose?

- <http://choosealicense.com/>
- <https://opensource.org/licenses>
- <https://creativecommons.org/licenses/>

What makes a project Open Source?



Open Source Culture

- Meritocracy
- Self-starter
 - “Did you search the mailing list first?”
 - “What did you already try to fix it?”
- If you want it - you had better code it
- Sometimes have “poisonous” people
- Interpersonal skills are very important

How do I get involved?

Where is code hosted?
What developers are needed?
How do I build the code?
How do I file a bug?
How do I submit a patch?
Is copyright assignment required?
Where's the chat channel?

Technical

Who can I ask for help?
Who owns this piece of code?
Does the project require mentoring?
Do I need to join a foundation?
Are there face-to-face meetups?
How are roles assigned?

Social

How do I join an Open Source project?

NOT

mailinglist@lists.fooproject.org

From: Beefcake Ogreslayer <warcraftgod6913@hotmail.com>

Subject: Hi! I'm glad to have joined your project

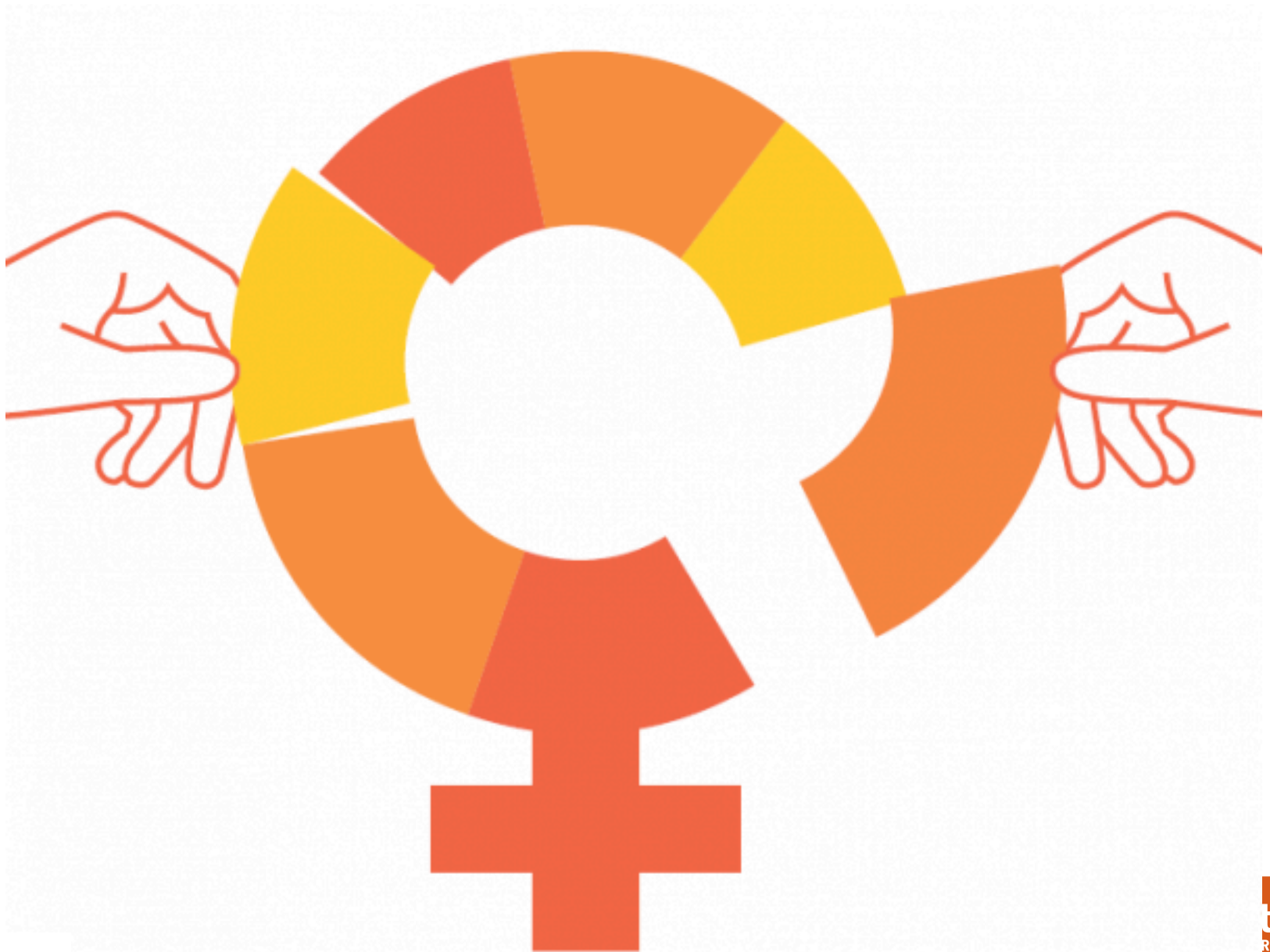
Date: November 14, 2017 12:31PM EDT

Hi everyone, my name is Joe but everyone calls me Beefcake Ogreslayer. I downloaded the fooproject three days ago and think it's the coolest thing ever. If only someone could frobnicate the flux capacitor and twiddle the bitdrain it would be awesome.

I'd really like to help your project. I'm pretty much the best VB.net programmer I know. I'm also an amazing artist, UI designer, and can put together an awesome marketing plan 4 fooproject. I'd really like to help, so hey, if there is a way I can help, let me know!

L8rs!

ate



11.2% women contributors among 2000 OSS projects

[Laura Arjona-Reina Gregorio Robles, and Santiago Dueas 2013 survey]

“...women’s work was more likely to be accepted than men’s, unless “their gender is identifiable”, in which case the acceptance rate was worse than men’s” [Josh Terrel et al.

2016, Gender Differences and Bias in Open Source: Pull Request Acceptance of Women Versus Men]

We performed 5 field studies, where contributors analyzed the project and GitHub. We found 73% issues were related to gender related issues.

Why should I get involved?



@jeresig

John Resig

When it comes to hiring, I'll take a Github commit log over a resume any day.

<https://twitter.com/#!/jeresig/status/33968704983138304>

Where Can I find Open Source?

github
SOCIAL CODING



Google code

sourceforge

 **launchpad**

Thank for being a great class!!!

