About Me

- Grad student at UC Davis.
- Former undergrad at Davis.
- Researching software visualization.
- Maverick.
An example of code_swarm
(video)
Before code_swarm
Sankey Diagrams

Mailing List View

People Selection Interface

File Repository View
Creating code_swarm
Philosophy of code_swarm

- Organic Infovis
  - Freeform: Not a one-to-one mapping
- Accessible to developers
- Understandable for everyone
- Aesthetic
Early Experiments (videos)
Technique: Motion

- Physics-based model with repulsive and attractive forces
- Developers attract files they work on
- Files repel other files
- Speed of each entity is capped
Seeing differences between projects

- Python
  - Guido's excellent adventure
- Eclipse
  - Lots of components, corporate sponsorship
- Apache
  - Planning and execution
- PostgreSQL
  - Small consistent group
Getting it on the internet

- Vimeo for streaming high quality video
- Single-page website with links to videos
  - vis.cs.ucdavis.edu/~ogawa/codeswarm
- Processing.org
- Infosthetics.com
Blogosphere Response

- A small number of blogger/developers
- Blog aggregators
- Bookmark services
  - Digg, del.icio.us, ycombinator, reddit
- Twitters
- Slashdot
- More blogs
  - O'Reilly, Wired
Compliments

• Looks good, wow factor
• Saw what they expected, like famous names
• Inspirational to see human endeavor, generosity, perseverance of developers
  – Guido in particular
• Experienced developers can see the release cycles
Criticisms

- Commits are not good indicators of project activity
  - Programmers may commit more often than necessary
  - A small group of maintainers may control patch commits from submitters
  - There are other ways of contributing to a project

- When there is a lot of activity, names are hard to read
  - OTOH, “...becoming something bigger than yourself” - shaunxcode
What people wanted

- Closed vs. open source
- A failed project
- A resurrected project
- Big-name projects
  - Linux, GNU, gcc, Vista, IE
- Wikipedia, Slashdot forums
- “...when Stallman went off the deep end”
- MAKE IT OPEN SOURCE!!!
After Open Sourcing
Some Self-Promotion

- **Code:**
  - [http://code.google.com/p/codeswarm](http://code.google.com/p/codeswarm)

- **Group:**
  - [http://groups.google.com/group/codeswarm](http://groups.google.com/group/codeswarm)
Very Helpful People

- Desmond Daignault (nawglan)
- Chris Galvan
  - Log conversion scripts
- Alex Gourley
- Sébastien Rombauts
- Arjen Wiersma (credmp)
- ...and others who submitted patches
Usable Data Sources

- svn
- cvs
- git
- Perforce
- Mercurial
- Wikiswarm (a MediaWiki extension)
Spinoffs

- Django
- Linux
- Plurk
- Vimeo
- Flickr
- SciPy
- LittleBigPlanet
- ~100 more on video sharing sites
Thanks!

Any Questions?