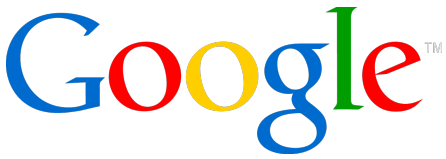


Google Summer of Code

Successful Open Source Mentoring on a Global Scale

Cat Allman
Program Manager

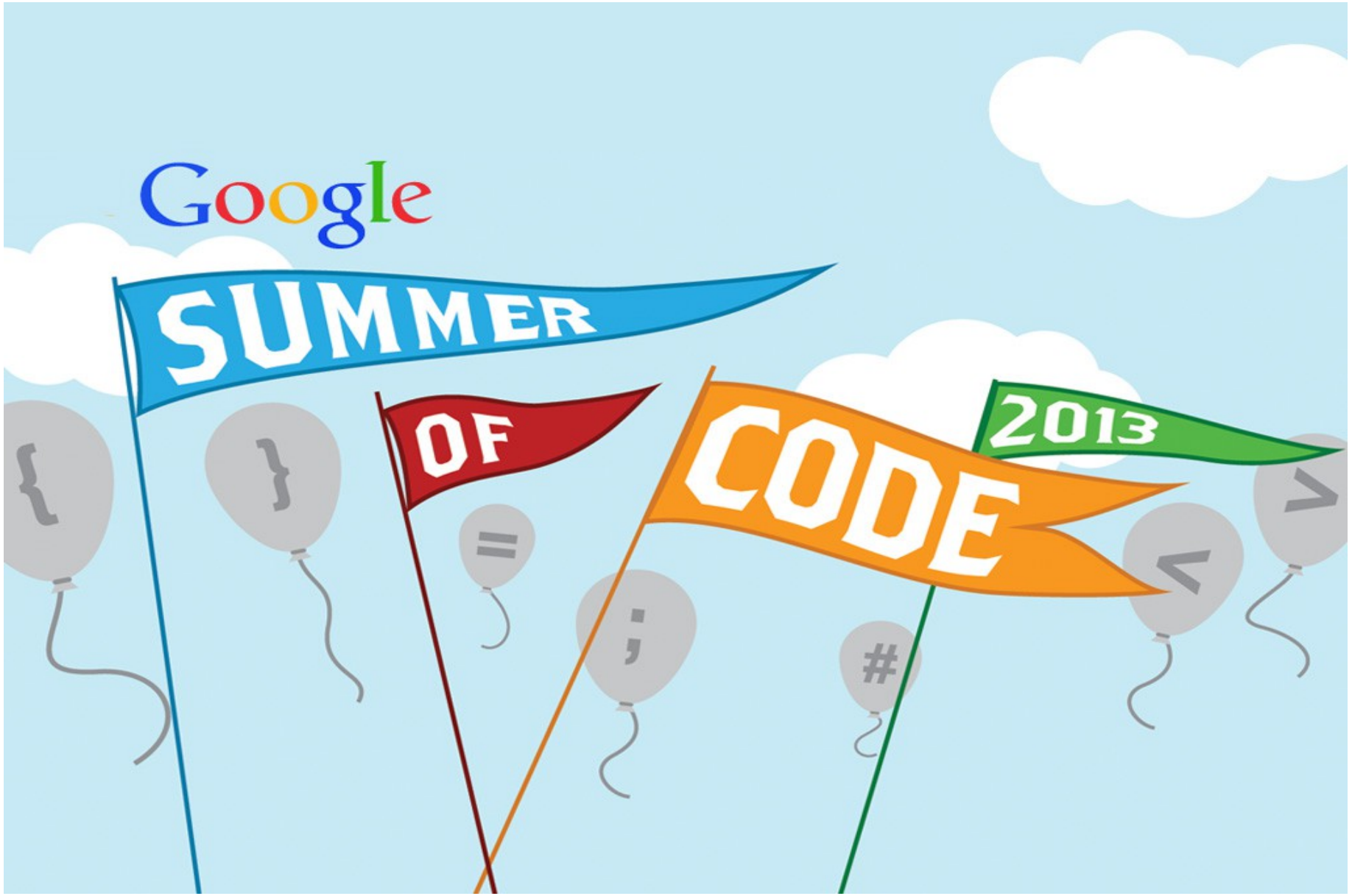
Google Open Source Programs

Google Open Source Programs Office

Google

Pivot point for open source at Google

- Open source project hosting
- License compliance
- Releasing Google code as open source
- Standards research and adoption
- Fund external FOSS development
- Fund, sometimes host, community driven events
- Support for academic research
- Student programs


Google
SUMMER
OF
CODE
2013

Goals of Google Summer of Code

Google

- Inspire young developers to begin participating in open source development
- Provide students in computer science and other fields a chance to do work related to their academic pursuits during the summer/break
- Give students more exposure to real-world software development scenarios (e.g. distributed development, software licensing questions, mailing list etiquette, etc.)
- Help open source projects identify and bring in new developers and committers
- Get more open source code created and released for the benefit of all

The Basics of Google Summer of Code

Google

1. The Mentoring Organizations apply to Google

2. Then the Students apply to the Mentoring organizations

3. Selected Students work online, one on one with a mentor for the term of the program.

How does Google Summer of Code work?

Google

- Projects apply to Google to be Mentoring Organizations
- Each Mentoring organization has an “Ideas List” to help students decide which org to apply to, what skills are needs, etc

How does Google Summer of Code work, cont.

Google

- Students submit project proposals to their choice of organizations, who select student(s) and pair with mentor from the org
- Google allocates a given number of slots to each organization, the students work on their project in close mentored collaboration with that organization
- Student must execute to milestones laid out in their accepted project proposal
- Students who successfully complete their projects receive a stipend
- Mentoring orgs receive small stipend per student

A range of students

Google

In 2012:

• Undergrad	659	54.5%
• Masters	294	24.3%
• PhD	124	10.3%
• N/A	135	11.2

- Approx 95% Technical majors: Computer Science, Engineering, Math, Physics, Sciences
- Approx 5% “Non-technical” majors including: Law, Art, Dance, Drama, Design, Film, Theology, Medicine, Languages, Business, International Relations, History, Music, Architecture, Cultural Studies, Sociology, Psychology, Anthropology, Library Science, Linguistics, Economics, Cartography
- Oldest student so far: 56

Why participate?

Google

Students gain:

- Skills
- Real world experience
- Sample code
- Contacts

Mentoring Organizations gain:

- New contributions & contributors
- Global exposure

Google Summer of Code in a few #s

Google

- Beginning our 9th year
- 390+ FLOSS projects
- 7000+ ‘Graduates’ and 3000+ Mentors
- 112 Countries and counting
- 40M+ USD in funding since 2005
- 20M+ Lines of code produced and released as open source

Proven the model and generated community

Google

Has spawned similar programs:

- Gnome Womens outreach (Gnome,
- European Space Agency Summer of Code in Space,
- Ruby Summer of Code,
- Season of Usability (Calligra, GIMP, LibreOffice and ownCloud), Summer of Documentation (Blender, Gentoo,)

Student generated Meetups scheduled around the world, Google+ and Facebook pages created, mailing lists started

Impact

Google

“The ""Tilt"" 3D debugger, done by Victor Porof in 2011, went from a “wouldn't it be cool if” idea on our ideas list to a GSoC project to a working Firefox extension to a built-in part of Firefox in nightly builds to being shipped to 450 million people - in a fraction over 12 months."

Gervase Markham,
Mozilla

Impact

Google

The student who added Fluid Simulation in Blender seven years ago received the Technical Academy Award in 2013 for his work on Fluid Simulation!

Ton Roosendaal,
Blender

Impact

Google

When I started Google Summer of Code, I was an obscure student living in a small developing country with no real opportunity to move ahead in life. I had no connections, no access to academics in my preferred field of study and no hope of ‘changing the world’. Barely ten months later, I’d worked on some of the best health informatics projects on the planet, visited implementation sites, done cutting edge research work for leading American scholars, helped maintain implementation sites in Africa and, in my own little way, contributed to make the world a better place.

I’ve learned to communicate well, to work with diverse offshore based teams, to manage my time wisely and to make the best of any situation.

Suranga Nath Kasthurirathne,
Google Summer of Code 2011 student for OpenMRS

Middle East & Africa: Students and Mentors 2005-2012

Students

- Algeria 7
- Egypt 23
- Ghana 1
- Israel 27
- Mauritius 1
- Morocco 1
- Nigeria 1
- Rwanda 4
- Saudi Arabia 2
- South Africa 14

Mentors

Algeria	4
Egypt	6
Ghana	2
Iraq	2
Israel	53
Jordan	3
Kenya	2
Lebanon	1
Morocco	2
Niger	1
Qatar	1
South Africa	26
Tanzania	2
Tunisia	1
Uganda	6

Thank You!

allman@google.com

http://developers.google.com/opensource/

The power of diversity

Google

We all have an important role to play in building a culture that encourages and fosters diversity, not just because it is the right thing to do, but because it will enable us to build better products.

Alan Eustace,
Google Senior VO of Engineering, on the importance of a diverse workforce

Useful links

- Google Summer of Code web page
  - http://www.google-melange.com

- Google Summer of Code discussion group
  - http://groups.google.com/group/google-summer-of-code-discuss

- Google Summer of Code student guide
  - http://www.booki.cc/gsocstudentguide/