

What is an important event? ~~175*~~ million events and counting

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22 April 2014

* “SELECT count(type) as event_count FROM [githubarchive:github.timeline]”

192,001,809: 192 million events

What happens on Github, 'the largest code repository on the planet'?

1. **sharing**: not automatic, but **problematic**;
2. **recursive publics**: **modify conditions** of their own existence;
3. **device-specific** social research: encounter with platform-data dynamics.

'Is it possible to do justice to ... common experience by shifting from prediction and simulation to description and data mining? ... Let the agents produce a dynamics and collect the traces that their actions leave as they unfold so as to produce a rich data set'
(Latour et al., 2012)

Live social research ... is social research that seeks to render analytically productive the formatted, dynamic character of digital networked data. As such, this research practice endorses the dynamism or 'shape-shifting' of online data, turning these into a resource and an object of digital social research. (Marres & Weltevreden, 2013, 327)

1. Sharing and other forms of participation

'there is nothing automatic about cultural sharing'
(Hannerz, 1992, p. 44)

Build software better, together.

FOUNDED
2008HOME BASE
San FranciscoHUBBERNAUTS
239LOVEABLE MASCOT
The Octocat

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Our contact form goes to real people and we'd love to hear from you. [Contact us](#).

GitHub is the best place to [share code](#) with friends, co-workers, classmates, and complete strangers. Over five million people use GitHub to build amazing things together.



With the [collaborative features of GitHub.com](#), our [desktop and mobile apps](#), and [GitHub Enterprise](#), it has never been easier for individuals and teams to write better code, faster.

Originally founded by [Tom Preston-Werner](#), [Chris Wanstrath](#), and [PJ Hyett](#) to simplify sharing code, GitHub has grown into the largest code host in the world.

Explore GitHub

All Showcases Trending Stars

Explore

Browse interesting projects, solving all types of interesting problems.



See all >

Trending repositories this week

See all >

	tiimgreen/github-cheat-sheet	3,899	227		cantino/huginn	2,747	173
	qrohlf/trianglify	1,418	63		vhf/free-programming-books	1,187	263
	almandevis	900	51		Famous/famous	843	113

Starred by GitHub staff this week

	cantino/huginn	9		tiimgreen/github-cheat-sheet	7
	qrohlf/trianglify	4		NYTimes/pourover	3
	tpope/heroku-binstubs	3		Sirupsen/logrus	2

Showcases

Browse through popular repositories organized around interesting topics.

Productivity tools	Policies	CSS preprocessors
Build software faster with fewer headaches. 12 ⚡ 6 2 days ago	From federal governments to corporations to student clubs, groups of all sizes are using GitHub to share, discuss, and improve laws. Ask... 10 ⚡ 4 2 days ago	Developers use CSS preprocessors to build CSS faster. You can browse some of the most popular CSS preprocessors on GitHub below. 7 ⚡ 5 2 days ago
Video tools	Icon Fonts	Clean code linters
Alfred Hitchcock would be proud of these repositories. Get your fill of video resources for doing all types of video code procedures. 6 ⚡ 3 2 days ago	All the icons you could dream of all wrapped up nice and neatly as web fonts. 13 ⚡ 4 2 days ago	Code linters will report any code typos to you when you're learning to code. Make sure your code is style guide compliant with these es... 13 ⚡ 7 2 days ago
Data visualization	Package managers	Projects that power GitHub
Data visualization tools for the web. 16 ⚡ 3 2 days ago	Across programming languages and platforms, package managers make it easy to distribute reusable libraries and plugins. Here's a list of... 14 ⚡ 6 2 days ago	Here are some of the great open source projects that GitHub is using to power its infrastructure. 27 ⚡ 5 9 days ago
Projects that power GitHub for Windows	Projects that power GitHub for Mac	Game off winners
Here are some of the great open source projects that GitHub for Windows uses in its app. 15 ⚡ 3 9 days ago	Here are some of the great open source projects used within GitHub for Mac. 30 ⚡ 3 9 days ago	The winners of our annual game jam, where contestants have 1 month to build an open source game that is playable in the web browser. 31 ⚡ 5 9 days ago
Writing	JavaScript game engines	Design essentials
GitHub repositories are places where writers can share their work with the world and solicit feedback, while others can fork the story an... 11 ⚡ 6 9 days ago	Learn or level up your L337 game dev skills and build amazing games together for web, desktop, or mobile. 8 ⚡ 1 9 days ago	Whether you float to the left or float to the right, you'll find these libraries and resources for design, HTML, CSS, and fonts useful. 14 ⚡ 4 9 days ago

3D modeling	Security	Game Engines
Has your obsession with 3D modelling only grown since Max Headroom hit the scene? Check out these repositories for levelling up your 3D. 10 ⚡ 2 17 days ago	Open source projects to help build and operate more secure systems, along with tools for security monitoring and incident response. 13 ⚡ 6 17 days ago	Frameworks for building games across multiple platforms. 6 ⚡ 3 17 days ago
Text editors	Music	Open source organizations
The text editor is a sacred application for developers. Here's a showcase of some amazingly awesome open source editors. 8 ⚡ 6 23 days ago	Drop the code bass with these musically themed repositories. 17 ⚡ 7 23 days ago	A showcase of organizations showcasing their open source using open source, dawg. 14 ⚡ 4 23 days ago
Government apps	Web application frameworks	NoSQL databases
Sites, apps, and tools built by governments across the world to make government work better, together. Read more at government.github.com . 11 ⚡ 7 23 days ago	Need a website fast? These server-side frameworks will help you out. 13 ⚡ 8 a month ago	Ain't no party like a NoSQL party! 12 ⚡ 7 a month ago
Programming languages	DevOps tools	Software development tools
A list of programming languages that are actively developed on GitHub. 16 ⚡ 14 a month ago	These tools help you manage servers and deploy happier and more often with more confidence. 12 ⚡ 4 a month ago	Build apps better, faster, stronger. 11 ⚡ 7 a month ago
Front-end JavaScript frameworks		
While the number of ways to organize		

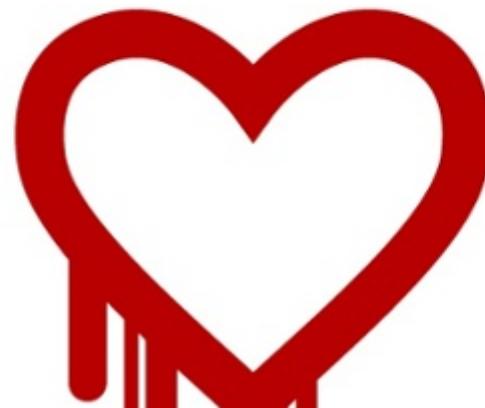
Heartbleed: Hundreds of thousands of servers at risk from catastrophic bug

Code error means that websites can leak user details including passwords through 'heartbeat' function used to secure connections

Alex Hern

theguardian.com, Wednesday 9 April 2014 09.00 BST

 [Jump to comments \(169\)](#)



```
mackenza@mackenza-Satellite-R... ✘ mackenza@mackenza-Satellite-R... ✘ mackenza@mackenza-Satellite-R... ✘ mackenza@mackenza-Satellite-R...
mackenza@mackenza-Satellite-R630:~/demo_clone$ cd ..
mackenza@mackenza-Satellite-R630:~$ rm -Rf demo
mackenza@mackenza-Satellite-R630:~$ mkdir demo
mackenza@mackenza-Satellite-R630:~$ cd demo
mackenza@mackenza-Satellite-R630:~/demo$ # create a git repo
mackenza@mackenza-Satellite-R630:~/demo$ git init
Initialised empty Git repository in /home/mackenza/demo/.git/
mackenza@mackenza-Satellite-R630:~/demo$ # make some files
mackenza@mackenza-Satellite-R630:~/demo$ touch file1.txt
mackenza@mackenza-Satellite-R630:~/demo$ touch file2.txt
mackenza@mackenza-Satellite-R630:~/demo$ touch readme.md
mackenza@mackenza-Satellite-R630:~/demo$ # add files
mackenza@mackenza-Satellite-R630:~/demo$ git add *.*
mackenza@mackenza-Satellite-R630:~/demo$ # commit files
mackenza@mackenza-Satellite-R630:~/demo$ git commit -a -m 'setting up repo'
[master (root-commit) 255ab85] setting up repo
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file1.txt
 create mode 100644 file2.txt
 create mode 100644 readme.md
mackenza@mackenza-Satellite-R630:~/demo$ # add remote repository
mackenza@mackenza-Satellite-R630:~/demo$ git remote add origin https://github.com/rian39/demo
mackenza@mackenza-Satellite-R630:~/demo$ git push -u origin master
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 234 bytes, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/rian39/demo
 * [new branch]      master -> master
Branch master set up to track remote branch master from origin.
mackenza@mackenza-Satellite-R630:~/demo$ █
```

This repository Search or type a command Explore Gist Blog Help rian39 + ×

PUBLIC openssl / openssl Watch 77 Star 409 Fork 204

11,856 commits 25 branches 188 releases 21 contributors

branch: master openssl /

Extension checking fixes.

Author	Commit Message	Date
snhenson	authored 2 days ago	latest commit 300b9ef0b70
Netware	misspellings fixes by https://github.com/vlajos/misspell_fixer	7 months ago
VMS	Teach mkshared.com to have a look for disabled algorithms in openssl...	2 years ago
apps	Fix free errors in ocsp utility.	8 days ago
bugs	misspellings fixes by https://github.com/vlajos/misspell_fixer	7 months ago
certs	grammar	6 years ago
crypto	Extension checking fixes.	2 days ago
demos	New ctrl to set current certificate.	2 months ago
doc	Clarify CMS_decrypt behaviour.	2 days ago
engines	engines/cogost/gosthash.c: simplify and avoid SEGV.	a month ago
fips	misspellings fixes by https://github.com/vlajos/misspell_fixer	7 months ago
include	Add emacs cache files to .cvsignore.	9 years ago
ms	ms/do_win64a.bat: forward to NUL, not NUL::	2 months ago
os2	Make a number of changes to the OS/2 build. Submitter's comment below.	10 years ago
perl	Add emacs cache files to .cvsignore.	9 years ago
shlib	Apply mingw patches as supplied by Roumen Petrov an Alon Bar-Lev	6 years ago
ssl	Add heartbeat extension bounds check.	10 days ago
test	test/Makefile: allow emulated test (e.g. under wine).	a month ago
times	Updates from 1.0.0-stable branch.	5 years ago
tools	PR: 2234	4 years ago
util	Update ordinals.	a month ago

Code Issues 35 Pull Requests 24 Wiki Pulse Graphs Network

HTTPS clone URL <https://github.com/> Download ZIP

<https://github.com/openssl/openssl>

A screenshot of a web browser showing a JSON response from the GitHub API. The URL in the address bar is <https://api.github.com/events>. The page displays a single event object with various fields like id, type, actor, repo, payload, and user.

```
[  
 {  
   "id": "2063473632",  
   "type": "PullRequestEvent",  
   "actor": {  
     "id": 3248622,  
     "login": "ekt7be",  
     "gravatar_id": "219e36dce467db488c596cfaffe65804",  
     "url": "https://api.github.com/users/ekt7be",  
     "avatar_url": "https://avatars.githubusercontent.com/u/3248622?"  
   },  
   "repo": {  
     "id": 17523204,  
     "name": "seanKenkeremath/Seizonsha",  
     "url": "https://api.github.com/repos/seanKenkeremath/Seizonsha"  
   },  
   "payload": {  
     "action": "closed",  
     "number": 17,  
     "pull_request": {  
       "url": "https://api.github.com/repos/seanKenkeremath/Seizonsha/pulls/17",  
       "id": 14913007,  
       "html_url": "https://github.com/seanKenkeremath/Seizonsha/pull/17",  
       "diff_url": "https://github.com/seanKenkeremath/Seizonsha/pull/17.diff",  
       "patch_url": "https://github.com/seanKenkeremath/Seizonsha/pull/17.patch",  
       "issue_url": "https://api.github.com/repos/seanKenkeremath/Seizonsha/issues/17",  
       "number": 17,  
       "state": "closed",  
       "title": "SOUND EFFECTS",  
       "user": {  
         "login": "ekt7be",  
         "id": 3248622,  
         "avatar_url": "https://avatars.githubusercontent.com/u/3248622?",  
         "gravatar_id": "219e36dce467db488c596cfaffe65804",  
         "url": "https://api.github.com/users/ekt7be",  
         "html_url": "https://github.com/ekt7be",  
         "followers_url": "https://api.github.com/users/ekt7be/followers",  
         "following_url": "https://api.github.com/users/ekt7be/following{/other_user}",  
         "gists_url": "https://api.github.com/users/ekt7be/gists{/gist_id}",  
         "starred_url": "https://api.github.com/users/ekt7be/starred{/owner}{/repo}",  
         "subscriptions_url": "https://api.github.com/users/ekt7be/subscriptions",  
         "organizations_url": "https://api.github.com/users/ekt7be/orgs",  
         "repos_url": "https://api.github.com/users/ekt7be/repos",  
         "events_url": "https://api.github.com/users/ekt7be/events{/privacy}",  
         "received_events_url": "https://api.github.com/users/ekt7be/received_events",  
         "type": "User",  
         "site admin": false  
       }  
     }  
   }  
 }]
```

1 October 2012 – Events on Github

type	events
PushEvent	67376
CreateEvent	29847
IssueCommentEvent	12185
WatchEvent	12148
IssuesEvent	7466
PullRequestEvent	4914
ForkEvent	4626
GistEvent	4487
FollowEvent	3125
GollumEvent	2681
CommitCommentEvent	1403
PullRequestReviewCommentEvent	1213
MemberEvent	962
DeleteEvent	920
DownloadEvent	587
PublicEvent	175

```
SELECT type, count(type) as events from githubarchive.github.timeline where PARSE_UTC_USEC(created_at) <
PARSE_UTC_USEC('2012-10-02 00:00:00')
and PARSE_UTC_USEC(created_at) > PARSE_UTC_USEC('2012-10-01 00:00:00') group by type order by events desc;
```

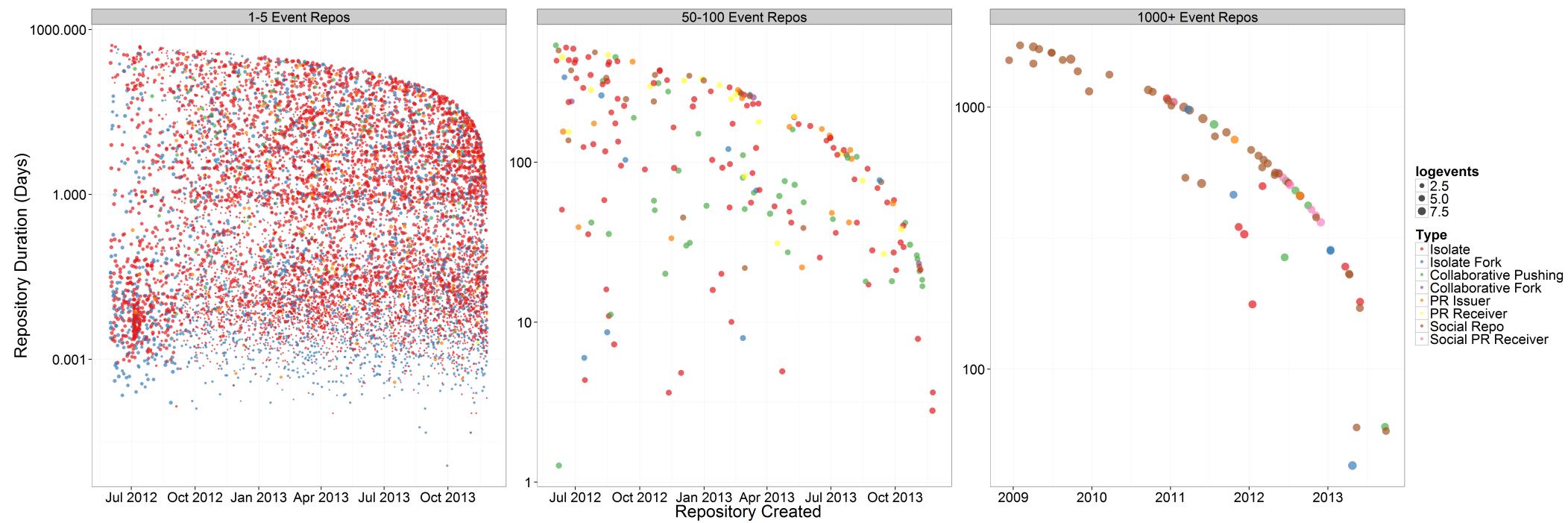
type	event_count
PushEvent	92077145
CreateEvent	23974406
WatchEvent	17476833
IssueCommentEvent	16306814
IssuesEvent	10363329
PullRequestEvent	6873661
ForkEvent	6749602
GistEvent	4571341
FollowEvent	3435804
GollumEvent	3194362
DeleteEvent	1952956
CommitCommentEvent	1778687
PullRequestReviewCommentEvent	1701626
MemberEvent	1040284
DownloadEvent	302247
PublicEvent	171759
ReleaseEvent	161187
TeamAddEvent	42639
ForkApplyEvent	5628

```
SELECT type, count(type) as event_count FROM [githubarchive:github.timeline]
group by type order by event_count desc
```

2. Recursive publics modify platforms

A recursive public is a public that is vitally concerned with the material and practical maintenance and modification of the technical, legal, practical, and conceptual means of its own existence as a public; it is a collective independent of other forms of constituted power and is capable of speaking to existing forms of power through the production of actually existing alternatives. (Kelty, *Two Bits*, 2010, 3)

12.4* million repositories, but most ephemeral or 'a-social'



Early repositories on Github (2007/8) are recursive?

repository_name	repository_owner	event_count	repository_created_at	functional-javascript	osteelle	
grit	mojombo	2314	2007-10-29 14:37:16	warbler	jruby	217 2008-03-01 00:29:28
rubinius	rubinius	16514	2008-01-12 16:46:52	ci_reporter	nicksieger	1963 2008-03-01 18:46:46
god	mojombo	1817	2008-01-13 05:16:23	github	Caged	629 2008-03-01 22:38:26
restful-authentication	technoweenie	243	2008-01-14 14:44:23	ratom	seangeo	149 2008-03-02 06:22:30
attachment_fu	technoweenie	205	2008-01-14 14:51:56	webrat	brynary	194 2008-03-02 13:26:19
thin	macournoyer	2184	2008-01-19 05:39:04	capistrano	halorgium	417 2008-03-02 20:09:28
sinatra	bmizerany	289	2008-01-24 04:49:54	acts_as_paranoid	technoweenie	124 2008-03-04 03:49:28
ruby-git	schacon	1058	2008-01-27 17:23:23	acts_as_versioned	technoweenie	108 2008-03-04 04:48:18
calais	abhay	152	2008-01-29 04:10:12	sputnik	yuri	175 2008-03-04 04:49:32
chronic	mojombo	2655	2008-01-29 06:48:49	no-peeping-toms	patmaddox	213 2008-03-04 08:49:43
git-wiki	sr	294	2008-01-29 20:39:42	slime	nablaone	302 2008-03-04 16:09:25
ruby-on-rails-tmbundle	dmic	199	2008-01-30 23:20:38	permanent_records	JackDanger	357 2008-03-04 16:33:28
amazon-ec2	grempe	230	2008-02-01 04:27:00	composite_primary_keys	composite-primary-keys	360 2008-03-04 19:30:54
braid	evilchelu	115	2008-02-03 21:14:46	composite_primary_keys	dmic	193 2008-03-04 22:58:40
eycap	engineyard	267	2008-02-04 11:37:14	nu	timburks	1045 2008-03-04 22:58:40
forgery	sevenwire	473	2008-02-06 22:33:31	minimagick	minimagic	3082 2008-03-05 18:55:38
acts_as_audited	collectiveidea	369	2008-02-09 16:14:05	mini_magick	probablycorey	135 2008-03-06 01:35:38
audited	collectiveidea	1087	2008-02-09 16:14:05	minimagick	minimagick	691 2008-03-06 01:35:38
graticule	collectiveidea	121	2008-02-09 17:23:49	maphilight	kemayo	1149 2008-03-06 01:35:38
tinder	collectiveidea	422	2008-02-09 18:18:23	ocaml-community	thelema	382 2008-03-06 04:10:02
rush	adamwiggins	332	2008-02-10 20:21:42	electricity	mojombo	860 2008-03-06 22:12:37
facebox	defunkt	1056	2008-02-11 22:49:27	rest-client	adamwiggins	135 2008-03-08 01:32:13
haml	nex3	741	2008-02-11 22:55:26	perspective-el	nex3	209 2008-03-08 03:27:39
haml	haml	4835	2008-02-11 22:55:26	gedit-themes	mig	113 2008-03-08 11:35:19
twitter	jnunemaker	2004	2008-02-14 02:20:50	media	github	281 2008-03-09 20:24:10
twitter	sferik	4976	2008-02-14 02:20:50	nerdtree	scrooloose	295 2008-03-09 22:43:49
userstamp	delynn	190	2008-02-14 07:15:27	nerdcommenter	scrooloose	4213 2008-03-10 07:34:08
barby	toretore	446	2008-02-17 13:40:24	spree	spree	1504 2008-03-10 08:19:15
delayed_job	tobi	801	2008-02-17 21:00:03	alonetone	sudara	42169 2008-03-10 14:45:35
stringex	rsl	1683	2008-02-19 15:31:07	gruff	topfunk	842 2008-03-11 11:43:25
awesome_nested_set	collectiveidea	2008	2008-02-21 16:03:25	cheat	defunkt	906 2008-03-11 22:06:00
io	stevedekorte	1409	2008-02-22 08:41:30	acts_as_commentable	jackdempsey	205 2008-03-12 06:09:09
onebody	churchio	116	2008-02-23 15:53:26	hobo	tablatom	496 2008-03-12 07:11:22
onebody	seven1m	119	2008-02-23 15:53:26	anarki	arclangauge	571 2008-03-13 17:17:53
will_paginate	mislav	2947	2008-02-25 20:21:40	arc	nex3	235 2008-03-14 20:13:58
yard	lsegal	3514	2008-02-26 00:01:52	limechat	psychs	525 2008-03-14 20:13:58
ruby-tmbundle	dmic	112	2008-02-26 00:49:22	calendar_date_select	timcharper	1588 2008-03-15 17:39:45
sprinkle	crafterm	808	2008-02-26 12:58:26	edith	sunny	237 2008-03-15 21:57:10
sprinkle	sprinkle-tool	1232	2008-02-26 12:58:26	ticgit	schacon	124 2008-03-18 08:09:22
annotate_models	ctran	1787	2008-02-27 18:04:38	lovld-by-less	stevenbristol	102 2008-03-18 23:02:07
axiom	daly	333	2008-02-27 23:58:50	dotnetopenid	AArnott	164 2008-03-20 13:09:09
github-gem	defunkt	788	2008-02-28 09:35:34	DotNetOpenAuth	DotNetOpenAuth	1567 2008-03-21 16:25:42
aasm	rubyist	447	2008-02-28 20:40:04	reia	tarcieri	1903 2008-03-21 16:25:42
aasm	aasm	882	2008-02-28 20:40:04	acts-as-taggable-on	mbleigh	254 2008-03-21 18:48:17
vimfiles	scrooloose	417	2008-02-29 00:15:49	contacts	cardmagic	4275 2008-03-21 19:07:26
treetop	nathansobo	443	2008-02-29 18:29:24	nginx-upstream-fair	gnosiek	321 2008-03-21 23:40:38
ircd	lindt	676	2008-02-29 21:22:22	tiny	lindt	205 2008-03-22 15:51:21

Config repositories

TOTAL: 310,646 (300k repositories are configuration files or test)

```
select sum(repo_count) from (SELECT name, count(*) as
repo_count FROM
[metacommunities:github_proper.repo_list]
where REGEXP_MATCH(name, 'dot|test|config') group
by name order by repo_count desc)
```

Forks and mirrors

FORKCOUNT: 4,468128 (approximately 4.5 million repos are forks)

```
SELECT count(*) as fork_count FROM  
[metacommunities:github_proper.repo_list] where fork=1
```

Platforms on Github

Software

Linux: <https://github.com/torvalds/linux>

Android: <https://github.com/CyanogenMod>

Data platform at *The Washington Post* <https://github.com/django/django>

Mozilla Foundation's Firefox web browser code <https://github.com/mozilla/gecko-projects>

'Big data infrastructures': noSQL database MongoDB <https://github.com/mongodb/mongo>; or the Apache Foundation's CouchDb <https://github.com/apache/couchdb>).

Minecrafts mods (<https://github.com/Bukkit/Bukkit>).

Software-inspired platforms

'We the People' petitioning system is at <https://github.com/WhiteHouse>

Tate Gallery collection metadata: <https://github.com/tategallery/collection>

the White House's open data policy (<http://project-open-data.github.io/policy-memo>)

the US Pirate Party's archive (<http://uspirates.github.io/>),

the complete genome of Kenneth Reitz (<https://github.com/kennethreitz/genome>)

collections of maps (<https://github.com/djaiss/mapsicon>)

Organizations on github

80,000 organizations

e.g. BBC

<https://github.com/BBC> Has 6 repositories and they are not updated very often.

But 32 BBC organisations on the Github:

BBCNews, BBCFrameworks (

<https://github.com/bbc-frameworks>), BBC R&D (<https://github.com/bbcrd>), BBC Data (<https://github.com/BBC-Data>)

Organisations: 80,000

BBC & social media platform repositories

repository_organization	repository_count
bbcrd	66
BBC-News	51
bbcarchdev	21
bbcf	19
BBC-Knowlearn	19
BBCVisualJournalism	13
BBC	12
bbcrew	9
bbc-fm-nk-core-eng	6
BBCLab	6
bbcsnippets	6
bbc-sport	3
BBCConnectedStudio	2
labbbc	1
BBC-Childrens	1
bbbcded	1
bbc-test	1
githubbcn	1
bbccoin	1
BBCGlobalNews	1
bbcwwtechnology	1
bbch	1
BBC-Data	1
BBCWW	1
bbc-degrees	1
BBC-Location-Services	1
BBCMS	1
BBCRMDEVCommunity	1
repository_organization	repository_count
facebook	140
facebook-csharp-sdk	20
GoogleCloudPlatform	185
google	158
twitter	135

3. Device-specific social research and events?

Scraping, we propose, makes it possible to render traffic between the object and process of social research analytically productive. It enables a form of ‘real-time’ social research, in which the formats and life cycles of online data may lend structure to the analytic objects and findings of social research. (Marres and Weltevreden, 2013, p. 233)

COMPOSE QUERY

Query History
Job History

Table Details: timeline

Schema Details Query Table

Description

Describe this table...

Table Info

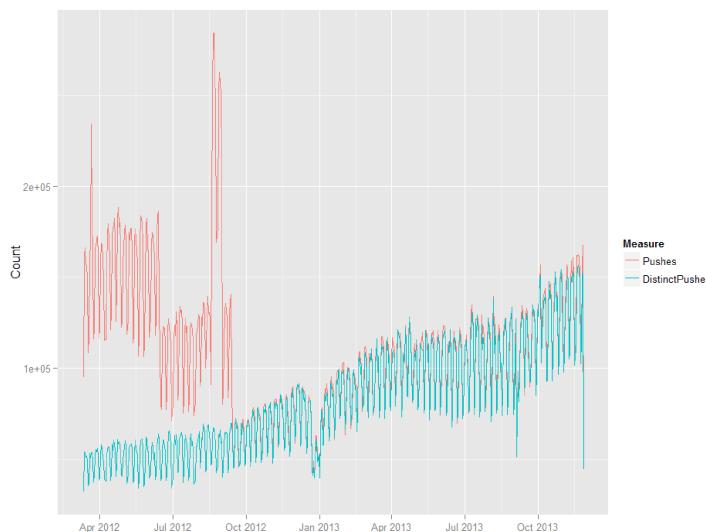
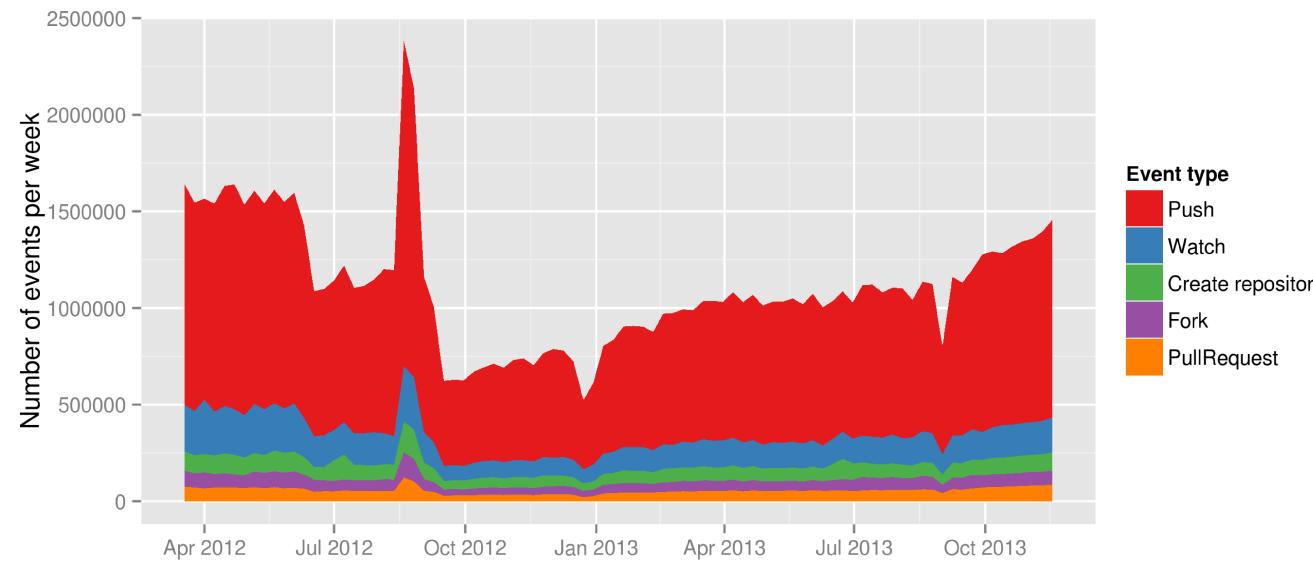
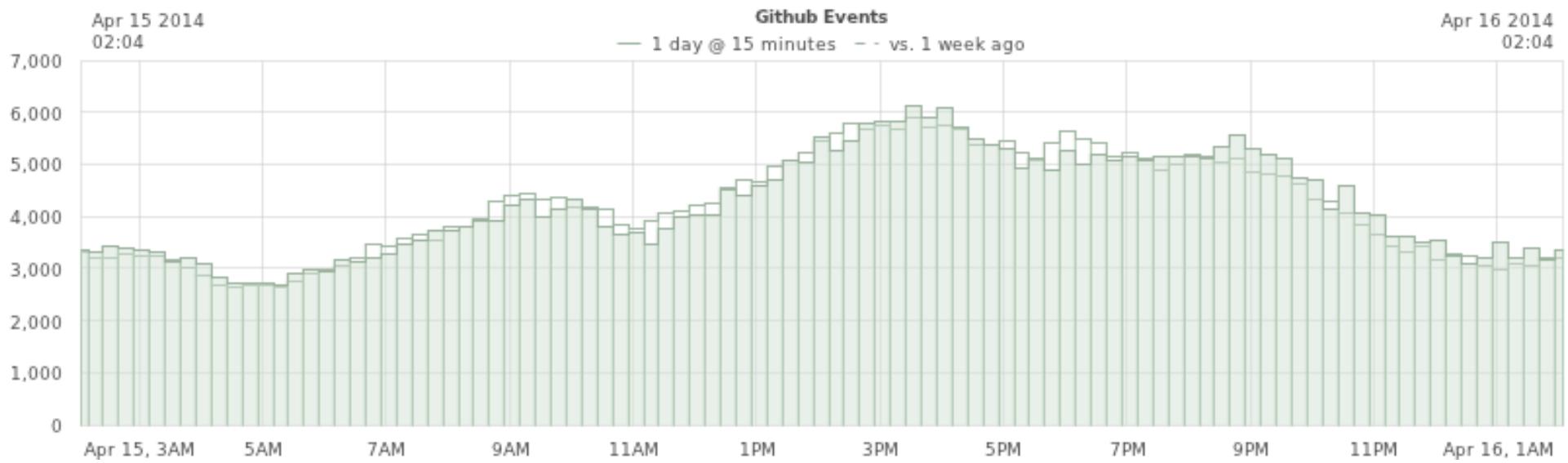
Table ID	githubarchive:github.timeline
Table Size	112 GB
Number of Rows	185,116,106
Creation Time	7:49am, 29 Apr 2012
Last Modified	9:22am, 31 Mar 2014

Open-source developers all over the world are working on millions of projects: writing code & documentation, fixing & submitting bugs, and so forth. GitHub Archive is a project to **record** the public GitHub timeline, **archive it**, and **make it easily accessible** for further analysis (Grigorik, 2012)

Preview

Query Results 11:19am, 31 Mar 2014

Row	created_at	type	actor	repository_name	url
1	2014-03-15 09:04:43	PushEvent	vvakame	DefinitelyTyped	https://github.com/borisyankov/DefinitelyTyped/compare/3d3832de3e...93a2313f62
2	2014-03-15 09:04:42	PushEvent	gizmomogwai	plist	https://github.com/gizmomogwai/plist/compare/12eb82d283...83ad8b5f26
3	2014-03-15 09:04:48	IssueCommentEvent	ben-lin	node.inflection	https://github.com/dreamerslab/node.inflection/issues/16#issuecomment-37721104
4	2014-03-15 09:04:48	WatchEvent	cbmd	mongofill	https://github.com/koubas/mongofill
5	2014-03-15 09:04:48	WatchEvent	svett	molokai	https://github.com/tomasr/molokai
6	2014-03-15 09:04:47	GollumEvent	swordray	wiki	https://github.com/ruby-china/wiki/wiki/RubyGems
7	2014-03-15 09:04:46	PushEvent	elfet	purephp	https://github.com/elfet/purephp/compare/dc24b70f00...c94c524e76
8	2014-03-15 09:04:46	PullRequestEvent	nikkypx	rets_data	https://github.com/arcticleo/rets_data/pull/2
9	2014-03-15 09:04:46	WatchEvent	mjaneczek	google-authenticator	https://github.com/jaredonline/google-authenticator
10	2014-03-15 09:04:53	PushEvent	micmath	Rye	https://github.com/micmath/Rye/compare/69c02b1aea...7885ea9e36
11	2014-03-15 09:04:53	PushEvent	fitret	daigon	https://github.com/fitret/daigon/compare/8897fa9404...77e5f48276
12	2014-03-15 09:04:53	WatchEvent	joeyates	spork	https://github.com/sporkrb/spork
13	2014-03-15 09:04:53	CreateEvent	grcnva	mcs-chatboard	https://github.com/grcnva/mcs-chatboard
14	2014-03-15 09:04:51	PushEvent	albatrossen	bungeebouncer	https://github.com/albatrossen/bungeebouncer/compare/57a3771590...7794ffb531
15	2014-03-15 09:04:51	PushEvent	catalinstanciu	ChessEngine-Xboard-cpp	https://github.com/catalinstanciu/ChessEngine-Xboard-cpp/compare/9bedce1744...8b98d2ff45



Mapping between Github and git events

```
--  
626 SELECT payload_pull_request_head_repo_url,  
627     count(payload_pull_request_head_repo_url) AS PullRequestEvents,  
628     count(distinct(payload_pull_request_id)) AS DistinctPullRequests,  
629     count(distinct(payload_pull_request_head_repo_url)) AS DistinctHeadRepos,  
630     sum(IF(payload_action = 'opened', 1, 0)) AS PullRequestOpenEvents,  
631     sum(IF(payload_action = 'closed', 1, 0)) AS PullRequestCloseEvents,  
632     sum(IF(payload_pull_request_head_repo_url == payload_pull_request_base_repo_url AND  
633         payload_action = 'opened', 1, 0)) AS IntraRepoPullRequestOpenEvents,  
634     sum(IF(payload_pull_request_merged == 'true', 1, 0)) AS MergedPullRequests,  
635     count(distinct(payload_pull_request_merged_by_login)) AS UsersWhoMerge,  
636     sum(IF(payload_pull_request_merged_by_login == payload_pull_request_user_login, 1, 0  
637         )) AS PullRequestMergedBySameUser,  
638     min(created_at) AS FirstPullRequest,  
639     max(created_at) AS LastPullRequest,  
640     min(payload_pull_request_head_repo_created_at) AS HeadRepoCreated,  
641     max(payload_pull_request_head_repo_fork) AS Fork,  
642     max(payload_pull_request_base_repo_url) AS payload_pull_request_base_repo_url,  
643 FROM [github_explore.timeline]  
644 WHERE type = 'PullRequestEvent' AND payload_pull_request_base_repo_url = 'https://api.  
645         github.com/repos/zzname/intravert-ug'  
646 GROUP EACH BY payload_pull_request_head_repo_url  
647 ORDER BY PullRequestEvents DESC  
648 LIMIT 5000000;
```

Projects

Billing

Account settings

Oct 1, 2013	Starting balance			10.54
Sep 1, 2013 - Sep 30, 2013		\$10.54	(\$2,265.66)	\$10.54
▶ Documents (2)				
Sep 30, 2013	VAT 	1.97		10.54
Sep 1, 2013 - Sep 30, 2013	BigQuery Analysis: 172.789 GB (Project:237471208995)	2.49		8.57
Sep 1, 2013 - Sep 30, 2013	BigQuery Storage: 77.839 GB-month (Project:237471208995)	6.08		6.08
Sep 10, 2013	Automatic payment: Visa ...4260		(2,265.66)	
Sep 9, 2013	Automatic payment declined: Visa ...4260 for \$2,265.66. No reason provided by your financial institution 			2,265.66
Sep 4, 2013	Automatic payment declined: Visa ...4260 for \$2,265.66. No reason provided by your financial institution 			2,265.66
Sep 3, 2013	Automatic payment declined: Visa ...4260 for \$2,265.66. No reason provided by your financial institution 			2,265.66
Sep 1, 2013	Starting balance			2,265.66
Aug 1, 2013 - Aug 31, 2013		\$2,265.66	(\$121.73)	\$2,265.66
▶ Documents (2)				
Aug 31, 2013	VAT 	423.66		2,265.66
Aug 1, 2013 - Aug 31, 2013	BigQuery Analysis: 53815.969 GB (Project:237471208995)	1,835.96		1,842.00
Aug 1, 2013 - Aug 31, 2013	BigQuery Storage: 77.351 GB-month (Project:237471208995)	6.04		6.04
Aug 3, 2013	Automatic payment: Visa ...4260		(121.73)	
Aug 1, 2013	Starting balance			121.73
Jul 1, 2013 - Jul 31, 2013		\$121.73	(\$22.56)	\$121.73
▶ Documents (2)				
Jul 31, 2013	VAT 	22.76		121.73
Jul 1, 2013 - Jul 31, 2013	BigQuery Analysis: 2818.778 GB (Project:237471208995)	92.93		98.97
Jul 1, 2013 - Jul 31, 2013	BigQuery Storage: 77.285 GB-month (Project:237471208995)	6.04		6.04
Jul 3, 2013	Automatic payment: Visa ...4260		(22.56)	
Jul 1, 2013	Starting balance			22.56
Jun 4, 2013 - Jun 30, 2013		\$4.22	\$0.00	\$22.56

▶ Documents (2)

[Return to original console](#) [Send feedback](#) [Privacy & Terms](#)

Big bill for
big query

From billing-noreply@google.com☆
Subject Google Cloud Platform: Payment declined, your Google API Services are in danger of being suspended
To mackenza☆

10/09/13 06:46
Other Actions ▾

We couldn't process a payment with your Visa ...4260 for \$2,265.66 on 09-Sep-2013. Your bank or credit institution gave the following details about the decline: No reason provided by your financial institution.

We have tried to charge your account but the payment has been declined. Please update your form of payment. Your account will be deactivated in 30 days if payment is not received. Please ensure that your form of payment's details are correct. Then make a payment for your outstanding balance. If the payment is unsuccessful, contact your bank or credit institution to resolve the issue. Find directions at <http://support.google.com/cloudbilling/answer/2987880?hl=en-GB>.

If you don't make any changes to your form of payment information in your account, our system will resume automatic charging within the next 24 hours. This means that it will try again to process a payment for the amount due. (Note that the amount due could increase if your account accrues more costs in the meantime.) If the payment attempts are unsuccessful again, we'll send you another email notification like this one.

Learn more about credit card declines at <http://support.google.com/cloudbilling/answer/2987884?hl=en-GB>.

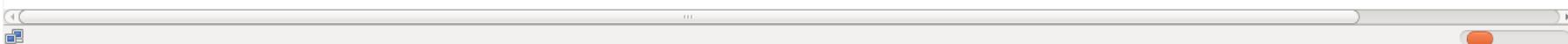
To help prevent further interruptions to your Google Cloud Platform account, you can add a backup credit or debit card to your account. Learn more at <http://support.google.com/cloudbilling/answer/2987880?hl=en-GB>

This message was sent from a notification-only email address that does not accept incoming email. Please do not reply to this message.

You can opt out of billing emails for this customer by visiting https://cloud.google.com/billing/_ui/email/?tk=AKCKCluGZmi2GkDMAHXSt2YRAt9704bac8bcJLnyWIEg4vZwog8r3HRMVEqjAHOpXlonTDIMtNkfN43zwvsUADJ0eUfCNcEohZ0yTNZkmxdwmk88JORg9D66CPFO_hl=en_GB.
This link will expire 7 days after the date of this email.

This message may be confidential or privileged. If you received this email by mistake, please don't forward it to anyone else and delete all copies and attachments.

Billing ID: 4587-0653-0897



From Google Enterprise Support☆
Subject Re: [#03383277] General Cloud Billing Query for [237471208995] [ref:_00D00VNwG._50060SJvN9:ref]
To researchmills@gmail.com☆
Cc mackenza☆, mackenza☆

06/09/13 07:00
Other Actions ▾

Hi Richard and Adrian,

I have just spoken with our BigQuery product manager again. He understands your situation and is willing to work with you to get the bill reduced to 30% of the cost for this month.

To do this, however, we'd like to be able to create a blog post/case study about this experience for you as developers on our platform. We would need you to work with our Developer Relations and Marketing teams to develop a blog post and public case study that highlights:

1. Background and motivations for this research project, the methods employed, and insights / benefits gained specifically from using Google.
2. Lessons learned and how to monitor your data usage using existing reporting data returned by BigQuery's API.

If this is okay with you, please respond as soon as possible so we can put you in touch with our Developer Relations and Marketing teams and process your credit.

Best regards,
Steven

[compute engine](#) +[App Engine](#) +[cloud computing](#) +[Google](#) +[google cloud platform](#) +[Popular Posts](#) -

Google Announces Massive Price Drops For Its Cloud Computing Services And Storage, Introduces Sustained-Use Discounts

Posted Mar 25, 2014 by [Frederic Lardinois \(@fredericl\)](#)

[Next Story](#)

At its [Cloud Platform event](#) in San Francisco today, Google announced a number of massive price drops for virtually all of its cloud-computing services. The company has also decided to reduce the complexity of its pricing charts by eliminating some charges and consolidating others.

ADVERTISEMENT

Google Compute Engine is seeing a 32 percent reduction in prices across all regions, sizes and classes. App Engine prices are down 30 percent, and the company is also simplifying its price structure.

[Google Compute Engine](#)

Conclusion

1. **sharing**: not automatic, but **problematic**;
2. **recursive publics**: **modify conditions** of their own existence, but the conditions of their own existence are also modified;
3. **device-specific** social research: encounter with platform-data dynamics is **multiple**

Acknowledgements

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Thanks to Google Cloud Services for
\$USD1600 refund