



Scaling Open Source Projects from 0-1000 Commits

Barak Michener





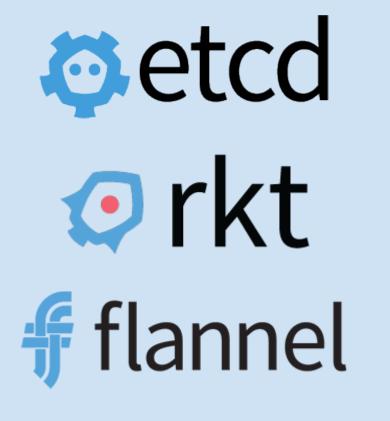


Click 'engage' to rate session.

Rate **12** sessions to get the supercool GOTO reward



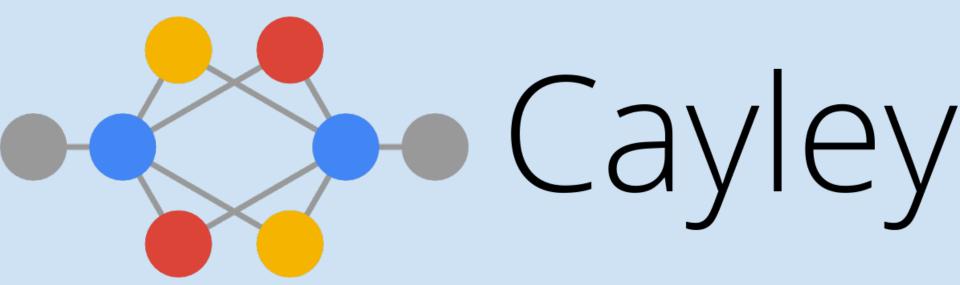
~100 Open Source repos on Github



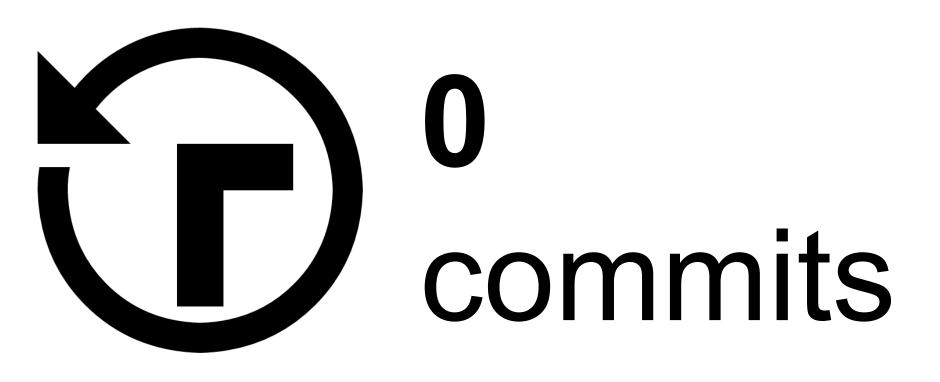
dex, fleet, mayday, etc...

#gifee

Google's Infrastructure For Everyone Else



http://github.com/google/cayley



\$ git init.

Skeleton

- You may want one for your org
- Standard choice of licenses, Make/BUILD files
- README.md
- CONTRIBUTING.md

A note on Licenses:

PICK ONE.

http://choosealicense.com/

Only ~20% of Github repos have a license. Don't be "that project".

Code Style

- Mandate by fiat for your project/org
 - Avoid bikeshedding
- Big plug for Go here, gofmt is awesome
- PEP8 for Python fans
- Always an option: Adopt (or fork) from Google
 - https://github.com/google/styleguide
- Mention this in CONTRIBUTING.md



200 commits

The past 200 commits

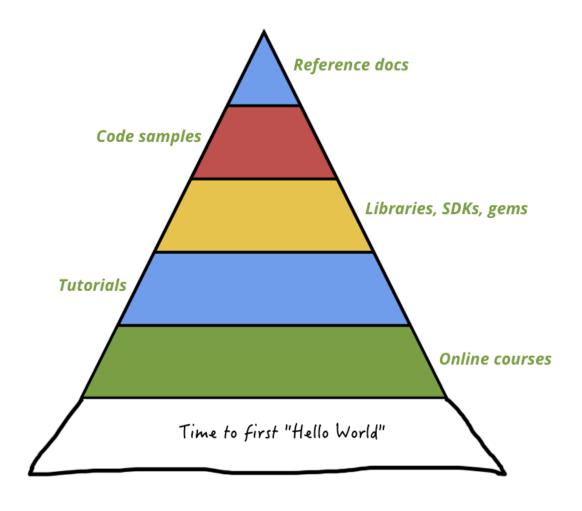
- Commit messages may have been messy
 - o more work
 - o remove cruft, add test
 - Don't do this in general, but we all get started and rebasing is fine, until now.
- Getting things working
- Super fast iteration

What if it doesn't work out?

- That's okay!
 - Experimentation should be more encouraged
 - "Fail fast"
 - Rebasing early is okay too
 - Your teammates may hate you a little, but only a little.

Prepping for Announce

- Mailing list
- IRC Channel?
- ...And two important things

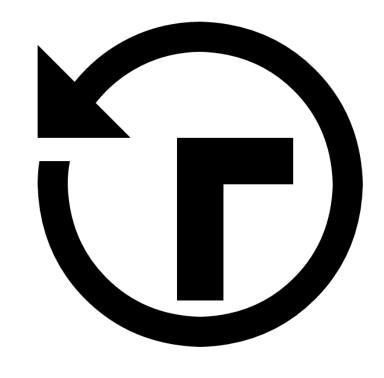


ROADMAP.md

(Pull requests accepted.)

Announce!

The sooner you're working in the public sphere, the better.



400 commits

The past 200 commits

- Real commit messages, PRs, code review
 - o subpackage: Add new feature doing X. Fixes #23.
- Still early, things subject to change.
 - Don't be afraid to experiment, and break a few things

First external contributors!

- Treat them like gold.
- If you have to answer the same question three times, write a three paragraph answer. Start your wiki/FAQ.md/Documentation file.

Optional: Benchmarks

- They don't have to be perfect
- Having them means measurement, and numbers help quantify decisions
- Shout-out for Go again

<pre>\$ benchx boltnoproto boltwproto</pre>			
benchmark	old ns/op	new ns/op	delta mult
BenchmarkNamePredicate	536192	519102	-3.19% -1.03x
BenchmarkLargeSetsNoIntersection	25406759	16517821	-34.99% -1.54x
BenchmarkVeryLargeSetsSmallIntersection	55738157	38773174	-30.44% -1.44x
BenchmarkHelplessContainsChecker	72689377	50568672	-30.43% -1.44x
BenchmarkHelplessNotContainsFilms	125709712	82282494	-34.55% -1.53x
BenchmarkHelplessNotContainsActors	101334859	67082261	-33.80% -1.51x
BenchmarkNetAndSpeed	5530942	4847584	-12.36% -1.14x
BenchmarkKeanuAndNet	4399839	4081278	-7.24% -1.08x
BenchmarkKeanuAndSpeed	5144942	4554785	-11.47% -1.13x
BenchmarkKeanuOther	16995806	12897262	-24.12% -1.32x
BenchmarkKeanuBullockOther	26998991	19858152	-26.45% -1.36x

600 commits

The past 200 commits

- A couple of early releases
- Semantic versioning
- Support!

If you give a mouse a binary...



...he's going to put it into production.

Felicia Bond, Illustrator - CC BY-SA 3.0

Support is great

- Means people have a need for your project
- Finds bugs

However,

Sometimes a burden on small teams

WTFM

- You're the person who knows the most about your project
- Sourcing writers is hard, and you won't have many at this stage
- Roll up your sleeves and write the docs
- Pay attention to UX as well
- Closing bugs with a pleasant "Hi, thanks for your question; we've committed an answer here based on it" helps everyone!



commits

The past 200 commits

- Prep for 1.0
- Stabilize APIs
- Major refactors tricky but possible

* etcc

 $0.4.6 \rightarrow 2.0.0$

1000 commits

Where do we go from here?

- Release cadence
- stable/master
 - 2.0.x on stable, 2.1alpha/rc on master
 - 2.1.x on stable, 2.2alpha/rc on master
- ???
- Profit!





Remember to rate this session

Thank you!



Thanks!

@barakmich @coreoslinux