

# Heat, Light, and Love: Telling Twitter's Open Source Program Office's Story

The Story of Students, Interns and Google Summer of Code Students as told by  
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Sean Goggins

Contact: Sean Goggins — [outdoors@acm.org](mailto:outdoors@acm.org)

Twitter year in review: <https://twitter.github.io/year-in-review>

Augur Dev Branch: <http://augur.osshealth.io/>

Augur Dev Branch API

Endpoints: <http://augur.osshealth.io:5000/api/unstable/repos>

Augur API Docs: <https://oss-augur.readthedocs.io/en/dev/>

Augur Docs: [http://augur.osshealth.io/api\\_docs/](http://augur.osshealth.io/api_docs/)



# I want metrics





# An Unexpected Journey



Augur



Interns

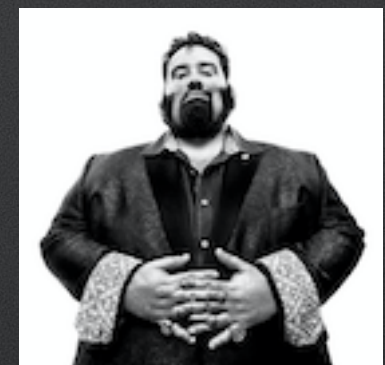


GSOC



CS Prof

CHA<sup>CO</sup>SS



OSPO



# Open Source Metrics: Vision and Reality

Year One

OSPO  
Need



Vision



Web App  
Reports



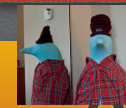
CHAOSS /  
Augur Goals



Data



APIs



Software



Imagined

OSPO  
Need

Data



APIs

Software

Web App  
Reports

CHAOSS /  
Augur Goals

Vision

Rea

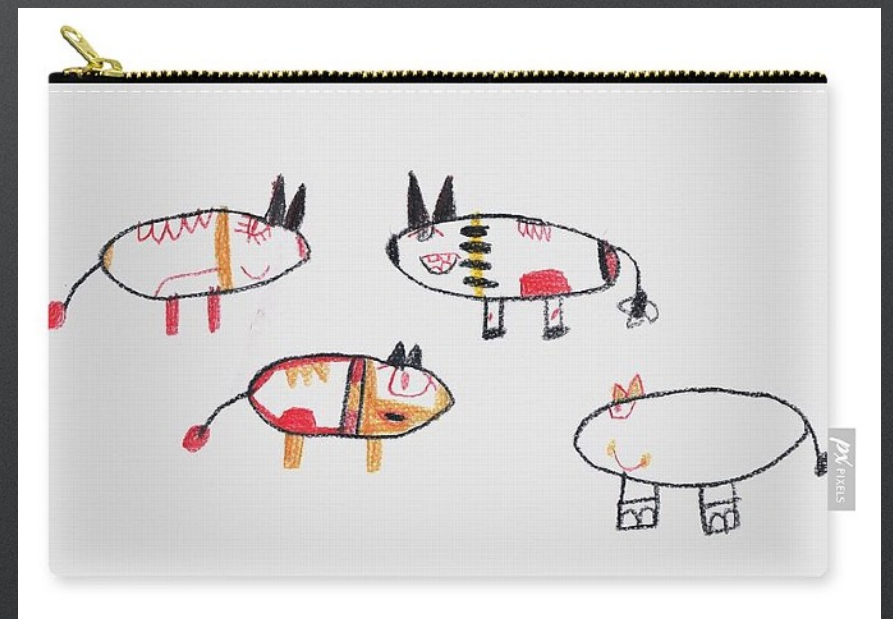




# An Iterative Process



Vision



Result



# An Iterative Process

Year Two

OSPO  
Need



Vision



Web App  
Reports

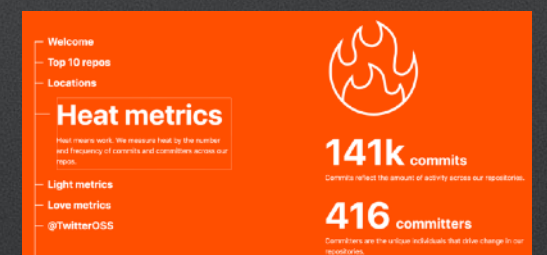
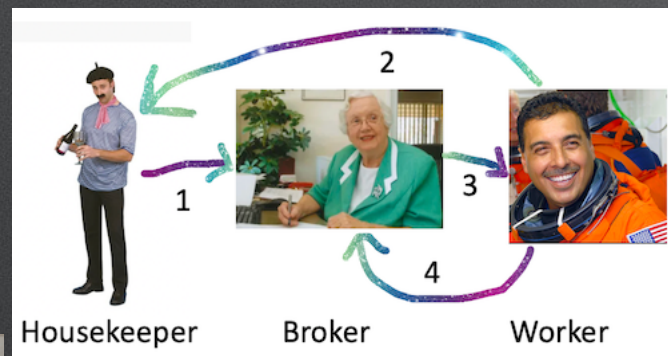


CHAOSS /  
Augur Goals

Data

APIs

Software



Vision

Result



# Year In Review: Twitter

## Welcome

This webpage updates weekly and provides a sliding window into the previous 12 months. Patches are always welcome.

— [Top 10 repos](#)

— [Locations](#)

— [Heat metrics](#)

— [Light metrics](#)

— [Love metrics](#)

— [@TwitterOSS](#)

Jan 2019 - Jan 2020

## Year in Review

An overview of the past 12 months of activity on Twitter's Open Source projects.



# Heat, Light, Love

Welcome

Top 10 repos

Locations

## Heat metrics

Heat means work. We measure heat by the number and frequency of commits and committers across our repos.

Light metrics

Love metrics

@TwitterOSS



**141k** commits

Commits reflect the amount of activity across our repositories.

**416** committers

Committers are the unique individuals that drive change in our repositories.



# Heat, Light, Love

Welcome

Top 10 repos

Locations

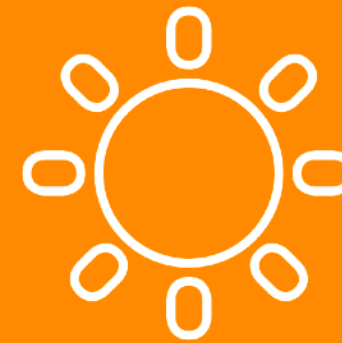
Heat metrics

## Light metrics

Light means visibility. We measure visibility by number of watchers subscribed to updates, and number of people who have favorited our projects.

Love metrics

@TwitterOSS



**7141** watchers

Watchers receive notifications for some or all changes to our codebases.

**135k** stars

Stars show preference for a repository, like a bookmark.



# Heat, Light, Love

 Twitter Open Source Year in Review

Welcome

Top 10 repos

Locations

Heat metrics

Light metrics

## Love metrics

Love means culture and support. We measure love by the number of users who have copied our projects and contributed changes back upstream.

@TwitterOSS



## 66k forks

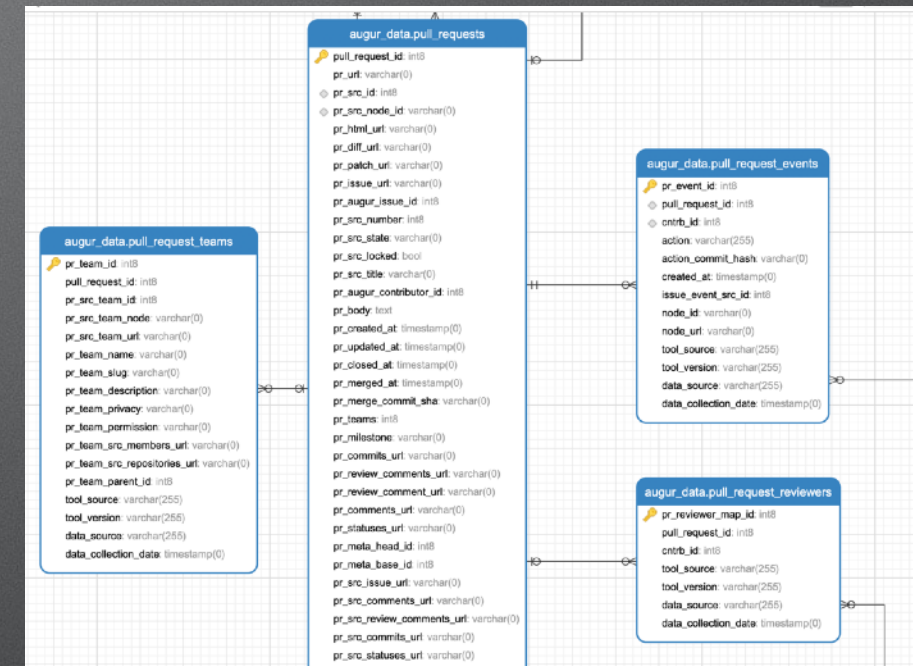
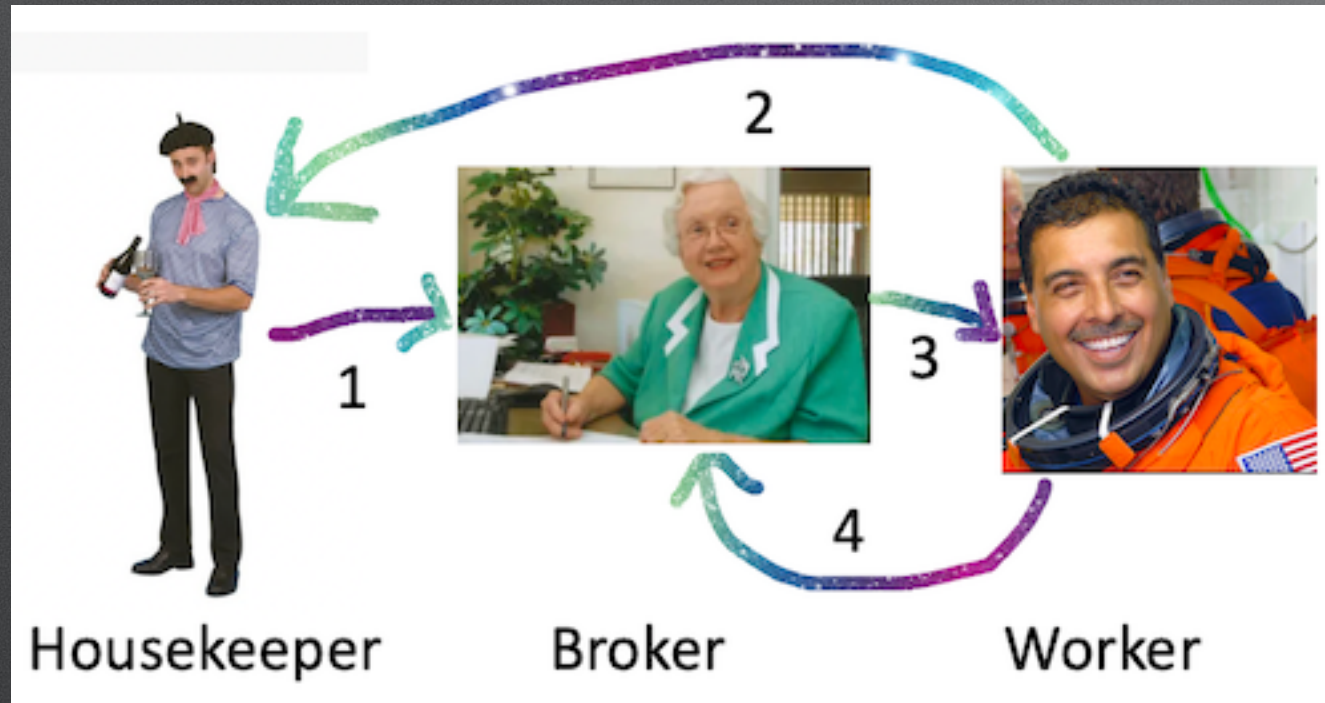
Forks represent full-copies of our repositories, usually for development and testing.

## 2427 PRs merged

Our users contribute pull requests (PRs) directly back to us.



# Augur Comprehensive Data Collection Architecture



Hardened Data Collection

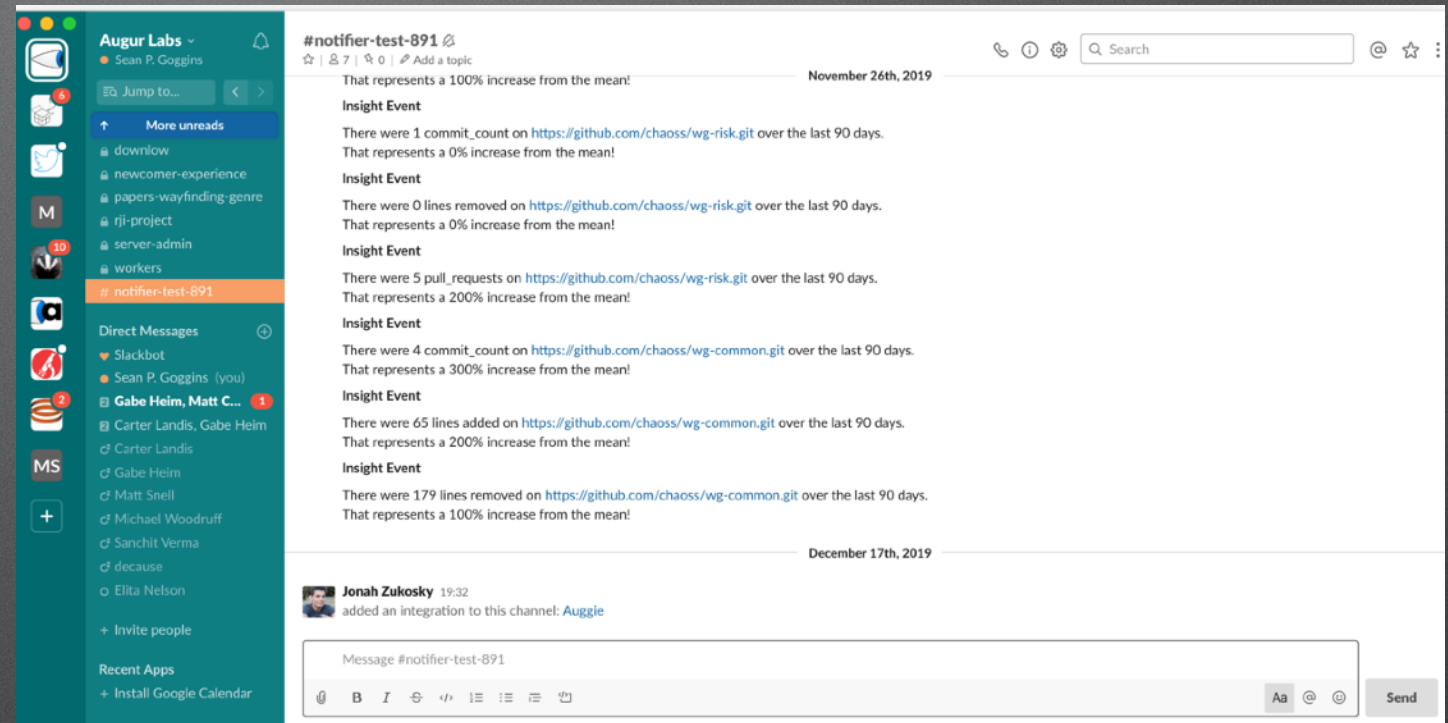
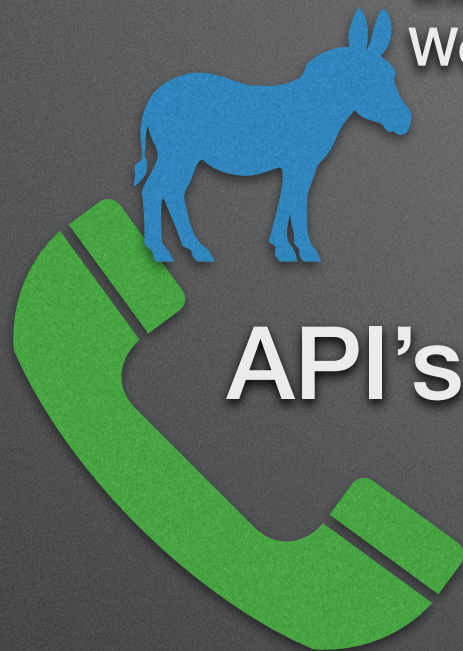
Relational, Named,  
Structure Data



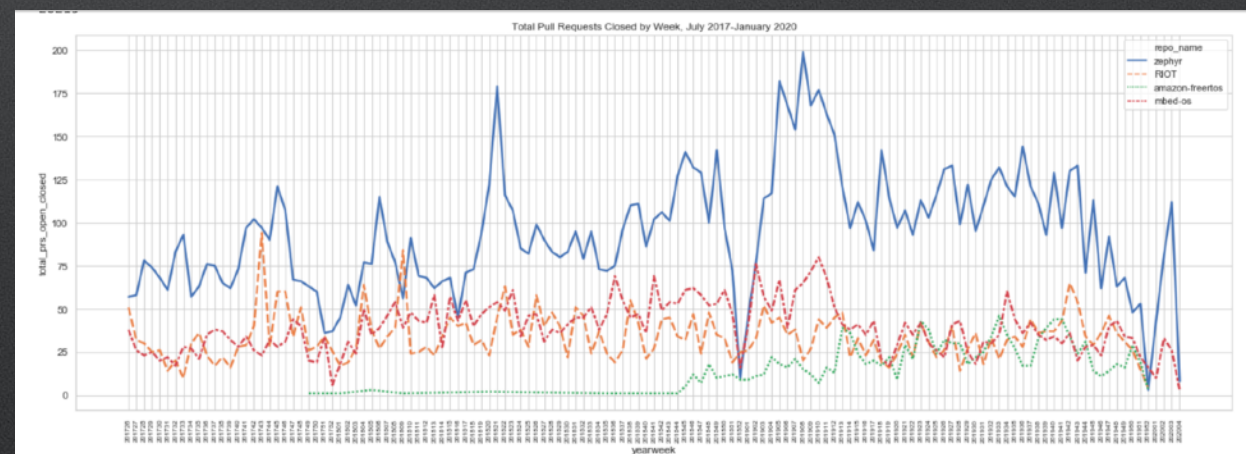


# Augur Push

Machine Learning  
Insight  
Worker



Slack



Custom Reports Shared Via Jupyter Notebooks