Open-Source Development *Growing Business Use*



Presenter: Elmer Camargo



Elmer Camargo

flapjackstan



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Elmer Camargo - flapjackstan

I'm a data scientist at the LA County Department of Public Health helping maintain the COVID-19 Vaccine Dashboard and it's associated data pipeline -

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Get in touch

• LinkedIn: https://www.linkedin.com/in/elmer-camargo-datasci/

Two Ideas!

What is open-source development?

Why are companies using it?



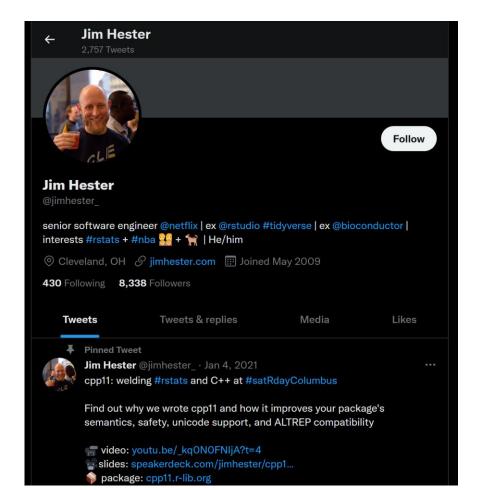
Jim Hester jimhester

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- Cleveland, Ohio
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Follow



radiant-rstats

A browser-based interface for business analytics in R (with Shiny)

https://radiant-rstats.github.io/docs/ radiant@rady.ucsd.edu

Overview

Repositories 17

Public

Public

A People

Public

Public

Popular repositories

radiant

Business analytics using R and Shiny. The radiant app combines the menus from radiant.data,

radiant.design, radiant.basics, radiant.model, and radiant.multivariate.

● R ☆ 376 ♀ 118

docker

Use R, Rstudio, Shiny, Radiant, Python, and Jupyter in

a Docker container

HTML



Top languages





People





This organization has no public

members. You must be a member to

see who's a part of this organization.



Code for the Data many in Padiant

docs

Padiant documentation

Support for upcoming glue 1.3.0 release #20 <>> Code ▼ vnijs merged 1 commit into radiant-rstats:master from jimhester:glue-1.3.0 「□ on Jul 5, 2018 **⊁** Merged Conversation 1 **-o-** Commits 1 F) Checks 0 **±** Files changed 3 +12 -6 jimhester commented on Jul 5, 2018 • edited ▼ Contributor **Reviewers** wnijs 😭 glue::collapse() has been renamed to glue::glue collapse(), this provides support for both versions. **Assignees** I plan to submit glue 1.3.0 to CRAN later this month. No one assigned Support for upcoming glue 1.3.0 release ... X 68067e8 Labels None yet

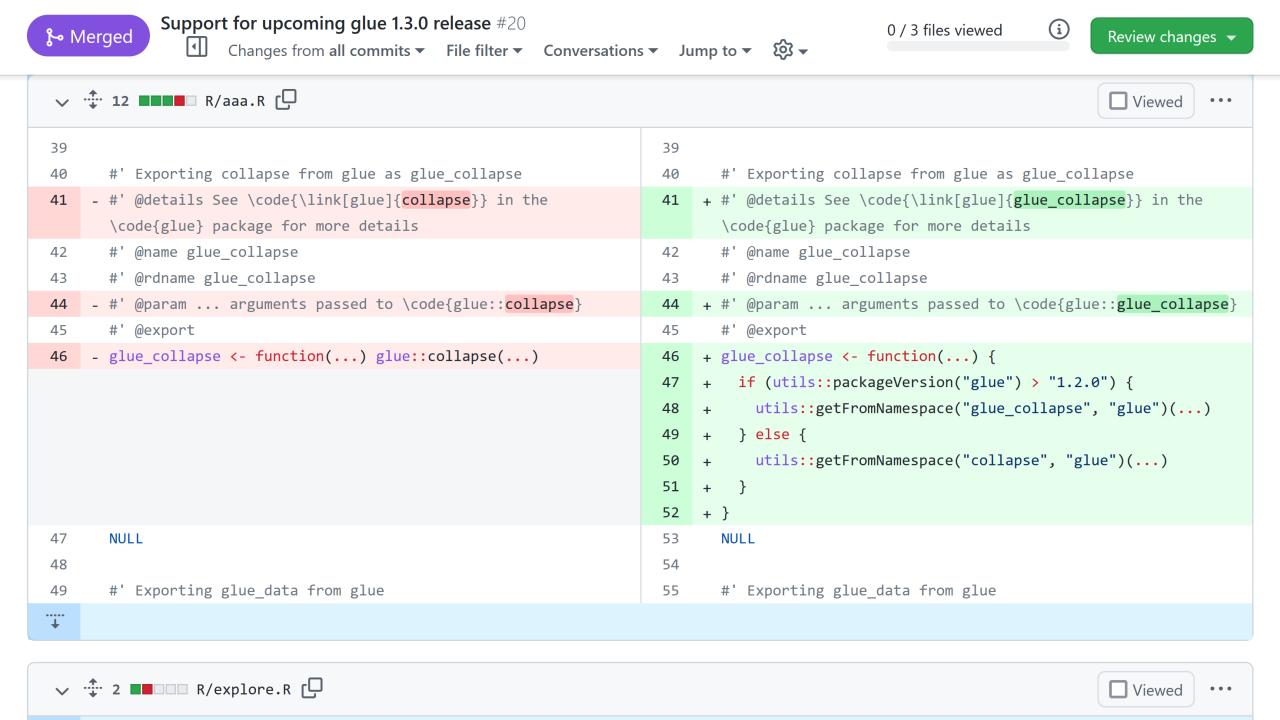


Projects

None yet

Milestone

No milestone



What is open-source development?

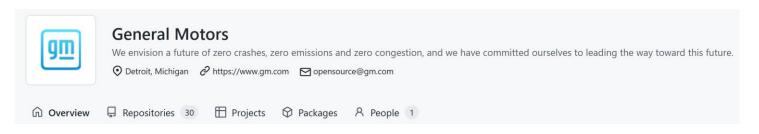
Open-source software is software that is:

- Decentralized
- Developed collaboratively
- Relies on peer review
- Enables community production

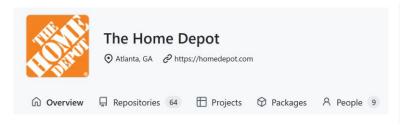
(Redhat Linux)

Who is this relevant to?







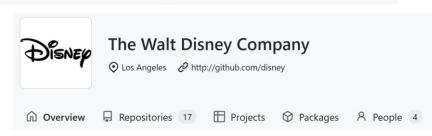


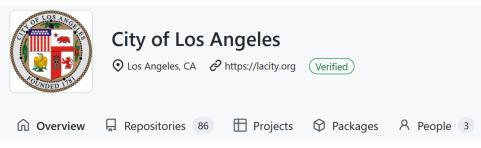








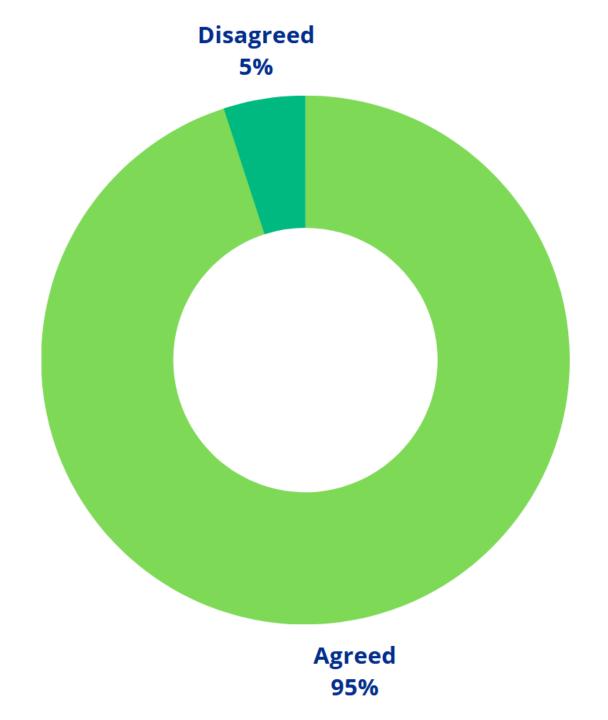




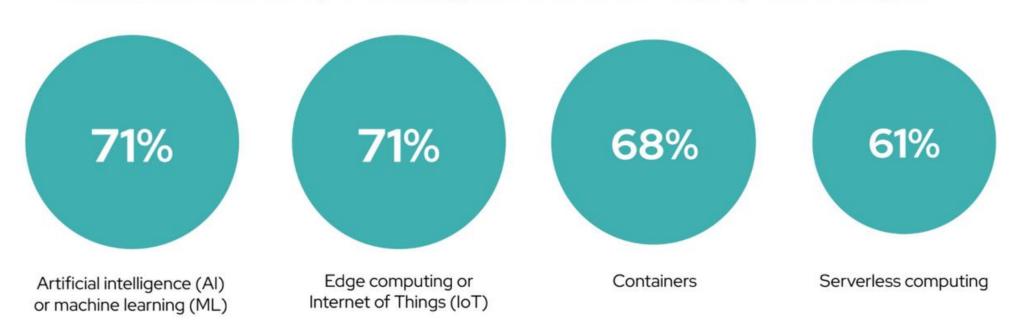


- 1,296 information technology department surveyed
- Across 6 different industries
 - Healthcare
 - Finance
 - Telecommunications
 - Retail
 - Government
 - Industrial
- Across Asia, Europe, Latin American,
 Middle East, Africa, and the United
 States

Open-source is important to their organization's overall enterprise infrastructure.



IT leaders are currently making good use of emerging technologies

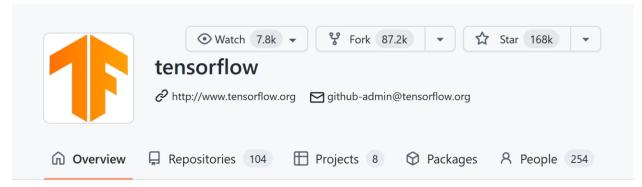


80% of IT leaders expect to increase their use of enterprise open source software for emerging technologies.



Companies are using open-source tech because it drives it provides a foundation for innovation

Why Does A Business Open-Source?



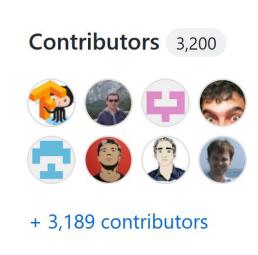
Google's open-sourced prediction tool

Spend less on a specialized skill



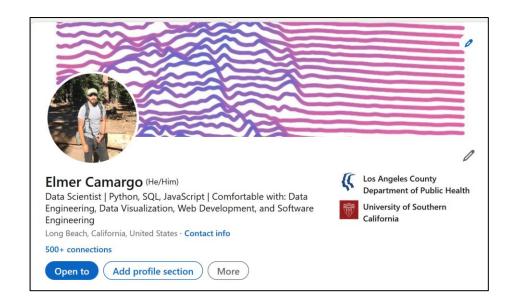
It doesn't takeaway from core business

All parties benefit



Recommendations

- Whatever your industry, investigate the software that drives it
 - Talk to your software or IT team
- Read about open-source business models
 - Or ask me about it later



LinkedIn

Email

Github



References + Additional Resources

- REL Open-Source Report
- Rise of Open-Source YouTube
- How Open-Source Makes Money YouTube
- Disadvantages of Open-Source
- Somewhat Recent Open-Source Company IPO's
- 30 Companies That Engage in Open-Source Development

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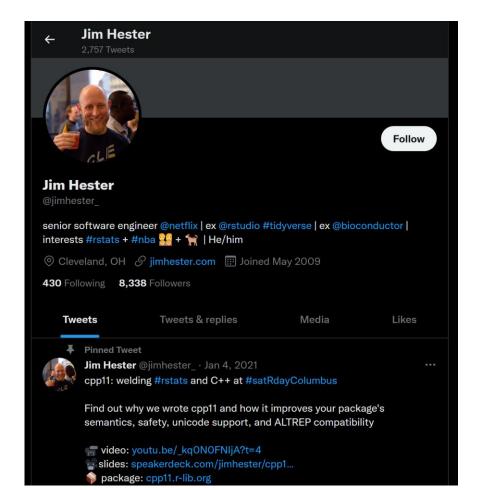
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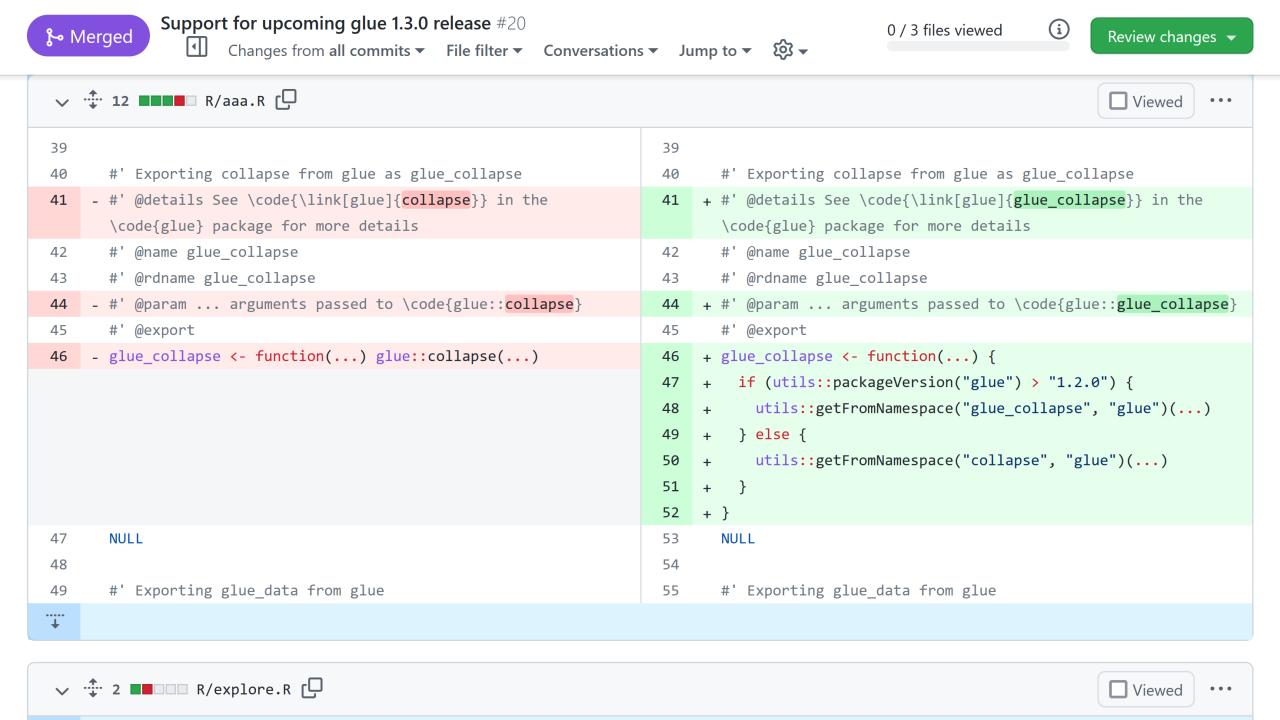
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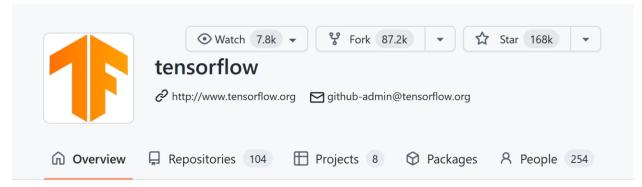
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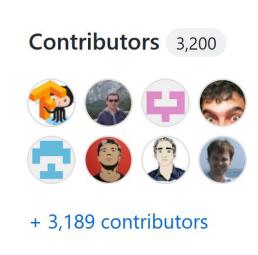
Google's open-sourced prediction tool

Spend less on a specialized skill



It doesn't takeaway from core business

All parties benefit



Why apply it?



Applying it!

What changes?

Airbnb Engineering & Data Science

Creative engineers and data scientists building a world where you can belong anywhere

Blog Posts



On Spark, Hive, and Small Files: An In-Depth Look at Spark Partitioning Strategies



Enzyme's Next Phase



Better Android Testing at Airbnb



Building an Effective Test Pipeline in a Service Orien...



Better Android Testing at Airbnb



Better Android Testing at Airbnb



Dynein: Building a Distributed Delayed Job Queuein... Better Android Testing at Airbnb



Better Android Testing at Airbnb



Open Source Projects



Airflow Use Apache Airflow (incubating) to author workflows as directed acyclic graphs (DAGs) of tasks





Aerosolve A machine learning package built for humans





Airpal Web UI for PrestoDB





BinaryAlert Serverless real-time and retroactive malware detection





DeepLinkDispatch Easy declaration and routing of your deep links





logo

Hammerspace Hash-like interface to persistent, concurrent, off-heap storage





AirMapView A view abstraction to provide a map user interface with various underlying map providers





Enzyme JavaScript Testing utilities for React





Epoxy for iOS Epoxy is a suite of declarative UI APIs for building iOS UIKit apps in Swift



Epoxy for Android An Android library for building complex screens in a RecyclerView





HorizonCalendar A declarative and performant iOS calendar UI component that supports use cases ranging from simple date pickers all the way up to fullyfeatured calendar apps.





JavaScript Style Guide A mostly reasonable approach to JavaScript





Interferon Signaling you about infrastructure or application issues



***** 227



Hypernova A service for serverside rendering your JavaScript views





The Knowledge Repo A nextgeneration curated knowledge sharing platform for data scientists and other technical professions



Lottie (Android) Render After Effects animations natively on Android

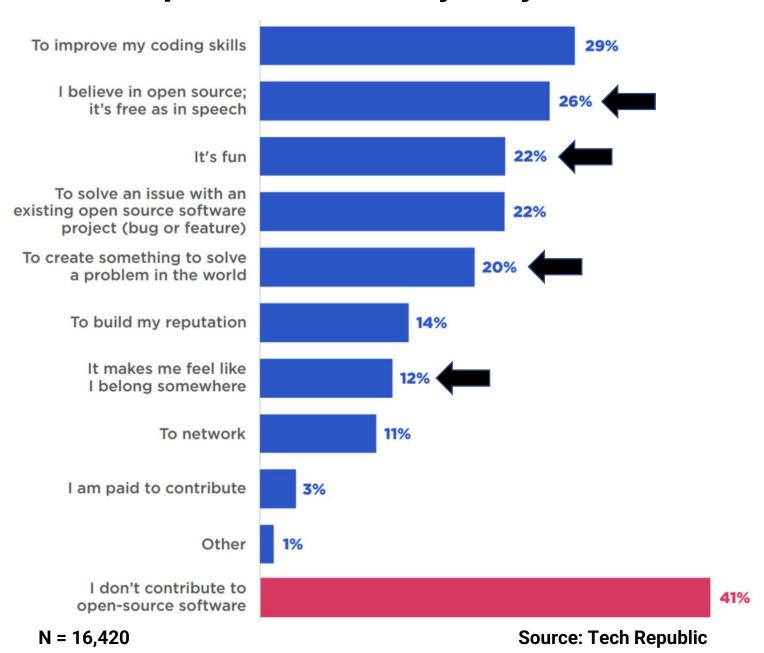


Applying it!

What changes?

What's in it for the employees?

Percent of developers reasons why they contribute to open-source

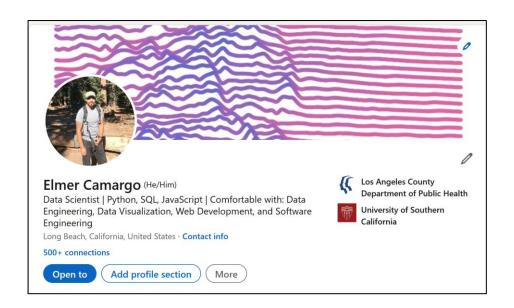


- Its fun
- I believe in open-source; its free as in speech
- To create something to solve a problem in the world
- It makes me feel like I belong somewhere

Work Satisfaction

Recommendations

- Consider some small steps towards open-source contribution
 - Blogs
 - Conference talks
 - Or ... dive right in and put a tool on open-source



LinkedIn

Email

Github



References + Additional Resources

Airbnb Engineering and Data Science Blog

Why Developers Like Contributing To Open-Source