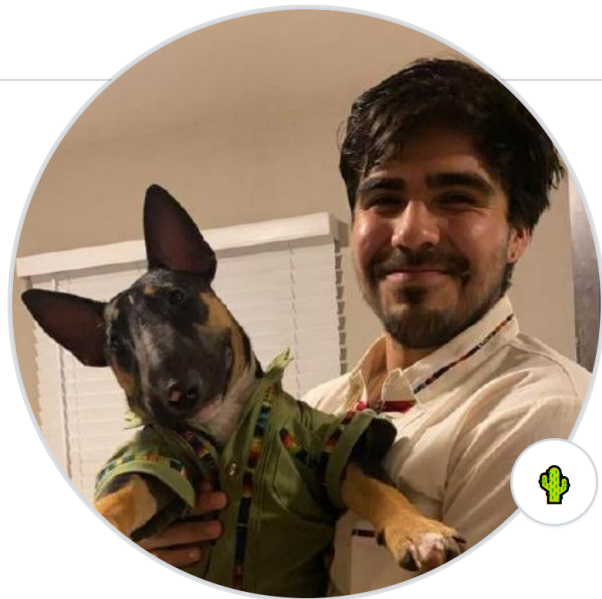


# **Open-Source Development**

## ***Growing Business Use***



Presenter: Elmer Camargo



**Elmer Camargo**

flapjackstan



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flapjackstan / README.md



## 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 - 🧑‍💻 📊

When I'm not working my dayjob I switch between studying for my Masters degrees (MS/MBA), lifting weights, and watching tv with my girlfriend and 3 dogs - 🎓 🏋️‍♂️ 🐕 🐕 🐕

Years from now I would like to teach/tutor middle school and highschool after school programs. Being part of Regional Occupational Program (ROP) in highschool really helped shape my future and would like to pay it back - 🧑‍🎓 🏠

## 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

Follow

🔗 1.5k followers · 8 following

🏢 @Netflix

📍 Cleveland, Ohio

✉ james.f.hester@gmail.com

🔗 <http://www.jimhester.com>

🐦 @jimhester\_

- Works at Netflix
- Has many community followers
- Seems to be really into R





[Pulls](#) [Issues](#) [Marketplace](#) [Explore](#)



## **radiant-rstats**

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

<https://radiant-rstats.github.io/docs/> [radiant@rady.ucsd.edu](mailto:radiant@rady.ucsd.edu)

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### Popular repositories

**radiant**

Public

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**

Public

Use R, Rstudio, Shiny, Radiant, Python, and Jupyter in a Docker container

HTML 84 33

**radiant.data**

Public

Code for the Data menu in Radiant

**docs**

Public

Radiant documentation

### People

This organization has no public members. You must be a member to see who's a part of this organization.

### Top languages

R HTML Shell

# Support for upcoming glue 1.3.0 release #20

<> Code ▾

Merged

vnijis merged 1 commit into radiant-rstats:master from jimhester:glue-1.3.0 on Jul 5, 2018

Conversation 1

Commits 1

Checks 0

Files changed 3

+12 -6



jimhester commented on Jul 5, 2018 • edited ▾

Contributor



`glue::collapse()` has been renamed to `glue::glue_collapse()`, this provides support for both versions.

I plan to submit glue 1.3.0 to CRAN later this month.



Support for upcoming glue 1.3.0 release ...

68067e8



vnijis approved these changes on Jul 5, 2018

View changes

vnijis left a comment

Contributor



Thanks @jimhester. Taking reverse dependency checks to the next level :)

## Reviewers



vnijis



## Assignees

No one assigned

## Labels

None yet

## Projects

None yet

## Milestone

No milestone



✓ ↕ 12 ■■■■ R/aaa.R

☐ Viewed

```
39
40 #' Exporting collapse from glue as glue_collapse
41 - #' @details See \code{\link[glue]{collapse}} in the
  \code{glue} package for more details
42 #' @name glue_collapse
43 #' @rdname glue_collapse
44 - #' @param ... arguments passed to \code{glue::collapse}
45 #' @export
46 - glue_collapse <- function(...) glue::collapse(...)
```

```
47 NULL
48
49 #' Exporting glue_data from glue
```



```
39
40 #' Exporting collapse from glue as glue_collapse
41 + #' @details See \code{\link[glue]{glue_collapse}} in the
  \code{glue} package for more details
42 #' @name glue_collapse
43 #' @rdname glue_collapse
44 + #' @param ... arguments passed to \code{glue::glue_collapse}
45 #' @export
46 + glue_collapse <- function(...) {
47 +   if (utils::packageVersion("glue") > "1.2.0") {
48 +     utils::getFromNamespace("glue_collapse", "glue")(...)
49 +   } else {
50 +     utils::getFromNamespace("collapse", "glue")(...)
51 +   }
52 + }
53 NULL
54
55 #' Exporting glue_data from glue
```

✓ ↕ 2 ■■■ R/explore.R

☐ Viewed


# What is open-source development?

*Technical Definition: Open-source software is software developed in a decentralized and collaborative way, relying on peer review and community production ([Redhat Linux](#))*

*In Action: I should be able to look at your product, make a copy of it, freely use it, be able to add to it, and request for the maintainer to accept or approve my contributions.*



# Who is this relevant to?




## General Motors

We envision a future of zero crashes, zero emissions and zero congestion, and we have committed ourselves to leading the way toward this future.

📍 Detroit, Michigan <https://www.gm.com> [opensource@gm.com](mailto:opensource@gm.com)


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## The Home Depot

📍 Atlanta, GA <https://homedepot.com>


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## Zillow

📍 United States <https://zillowgroup.com/>

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## City of Los Angeles

📍 Los Angeles, CA <https://lacity.org> Verified


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## The American National Red Cross

📍 Washington D.C. <http://www.redcross.org> [daniel.joseph@redcross.org](mailto:daniel.joseph@redcross.org)

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## The New York Times

📍 New York, NY <https://nytimes.com> Verified


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## Walmart Global Tech

📍 Distributed [opensource@email.wal-mart.com](mailto:opensource@email.wal-mart.com)

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## McDonald's

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## Chevron Energy Technology Company


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## The Walt Disney Company

📍 Los Angeles <http://github.com/disney>

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## Kaiser Permanente Washington Health Research Institute

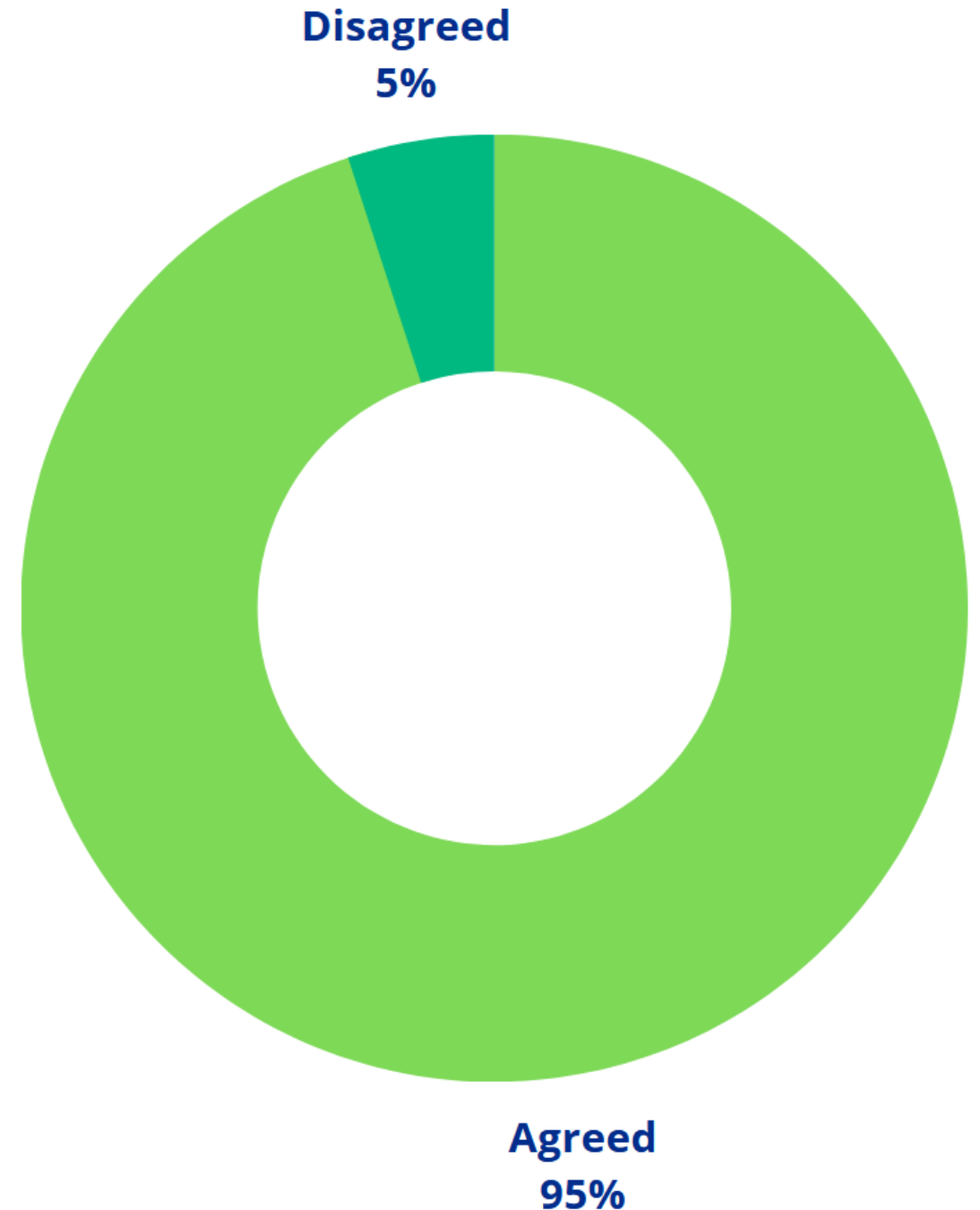
Practical research for better health

📍 Seattle, WA, USA <https://www.kpWASHINGTONresearch.or...>

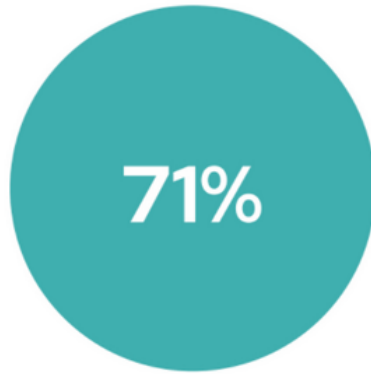
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- 1,296 information technology department surveyed
- Across 6 different industries
  - Healthcare
  - Finance
  - Telecommunications
  - Retail
  - Government
  - Industrial
- Across Asia, Europe, Latin American, Middle East, Africa, and the United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

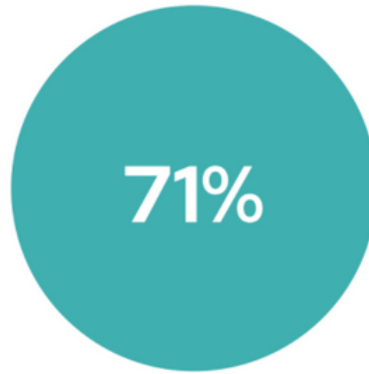
***Open-source is important to their organization's overall enterprise infrastructure.***



## IT leaders are currently making good use of emerging technologies



Artificial intelligence (AI)  
or machine learning (ML)



Edge computing or  
Internet of Things (IoT)



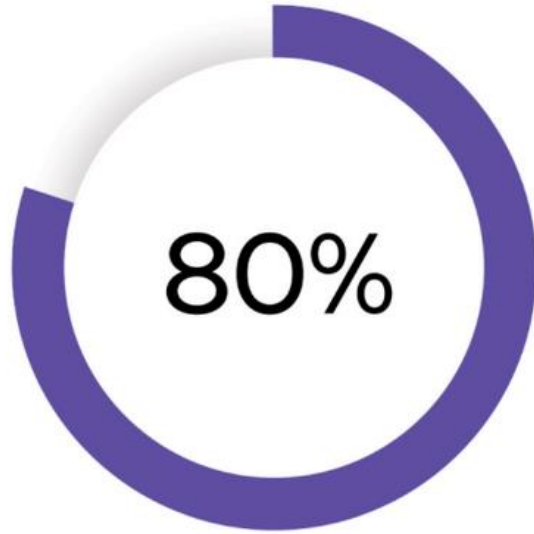
Containers



Serverless computing

	APAC	EMEA	LATAM	U.S.
▶	AI or ML <b>73%</b>	AI or ML <b>70%</b>	AI or ML <b>65%</b>	AI or ML <b>75%</b>
	Edge or IoT <b>68%</b>	Edge or IoT <b>69%</b>	Edge or IoT <b>71%</b>	Edge or IoT <b>73%</b>
	Containers <b>66%</b>	Containers <b>63%</b>	Containers <b>69%</b>	Containers <b>73%</b>
	Serverless <b>58%</b>	Serverless <b>64%</b>	Serverless <b>58%</b>	Serverless <b>61%</b>

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



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

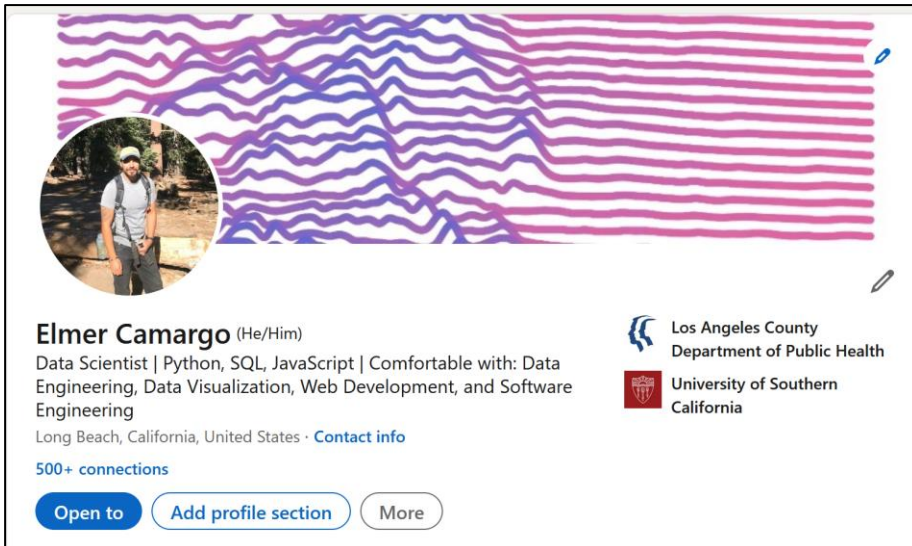
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(APAC = 80%, EMEA = 80%, LATAM = 82%, U.S. = 80%)

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

# 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



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[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](#)