Open-Source Development
Growing Business Use

Presenter: Elmer Camargo

Two Ideas!

What is open-source development?

Why are companies using it?

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

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   🔲 Projects   📦 Packages   👤 People

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

Merged **vnijs** 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 ■■■■■□

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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

✓ **vnijs** approved these changes on Jul 5, 2018   [View changes]

vnijs left a comment   Contributor ☺ •••

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

Reviewers

👤 vnijs ✓

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

```
∨  ✛  12 ■■■■■□  R/aaa.R  ⧉                                              ☐ Viewed  ⋯

39                                                         39
40     #' Exporting collapse from glue as glue_collapse    40     #' Exporting collapse from glue as glue_collapse
41   - #' @details See \code{\link[glue]{collapse}} in the 41   + #' @details See \code{\link[glue]{glue_collapse}} in the
       \code{glue} package for more details                       \code{glue} package for more details
42     #' @name glue_collapse                             42     #' @name glue_collapse
43     #' @rdname glue_collapse                           43     #' @rdname glue_collapse
44   - #' @param ... arguments passed to \code{glue::collapse} 44 + #' @param ... arguments passed to \code{glue::glue_collapse}
45     #' @export                                         45     #' @export
46   - glue_collapse <- function(...) glue::collapse(...)  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   + }
47     NULL                                               53     NULL
48                                                         54
49     #' Exporting glue_data from glue                   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?

The American National Red Cross
Washington D.C. · http://www.redcross.org · daniel.joseph@redcross.org
Overview · Repositories 150 · Projects · Packages · People 9

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
Overview · Repositories 30 · Projects · Packages · People 1

The New York Times
New York, NY · https://nytimes.com · Verified
Overview · Repositories 92 · Projects · Packages · People 40

The Home Depot
Atlanta, GA · https://homedepot.com
Overview · Repositories 64 · Projects · Packages · People 9

Walmart Global Tech
Distributed · opensource@email.wal-mart.com
Overview · Repositories 151 · Packages · People 2

McDonald's
Overview · Repositories 3 · Projects · Packages · People

Zillow
United States · https://zillowgroup.com/
Overview · Repositories 135 · Projects 1 · Packages · People 7

Chevron Energy Technology Company
Overview · Repositories 22 · Projects · Packages · People 2

The Walt Disney Company
Los Angeles · http://github.com/disney
Overview · Repositories 17 · Projects · Packages · People 4

City of Los Angeles
Los Angeles, CA · https://lacity.org · Verified
Overview · Repositories 86 · Projects · Packages · People 3

Kaiser Permanente Washington Health Research Institute
Practical research for better health
Seattle, WA, USA · https://www.kpwashingtonresearch.or...
Overview · Repositories 42 · Projects · Packages · People

- 1,296 information technology department surveyed

- Across 6 different industries
  - Healthcare
  - Finance
  - Telecommunications
  - Retail
  - Government
  - Industrial

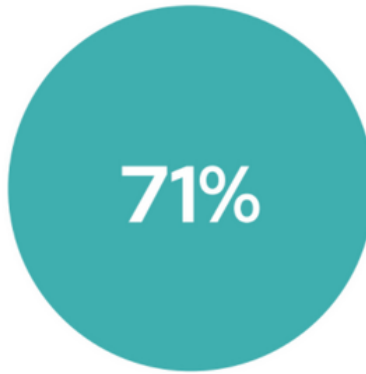- Across Asia, Europe, Latin American, Middle East, Africa, and the United States

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

Disagreed 5%

Agreed 95%
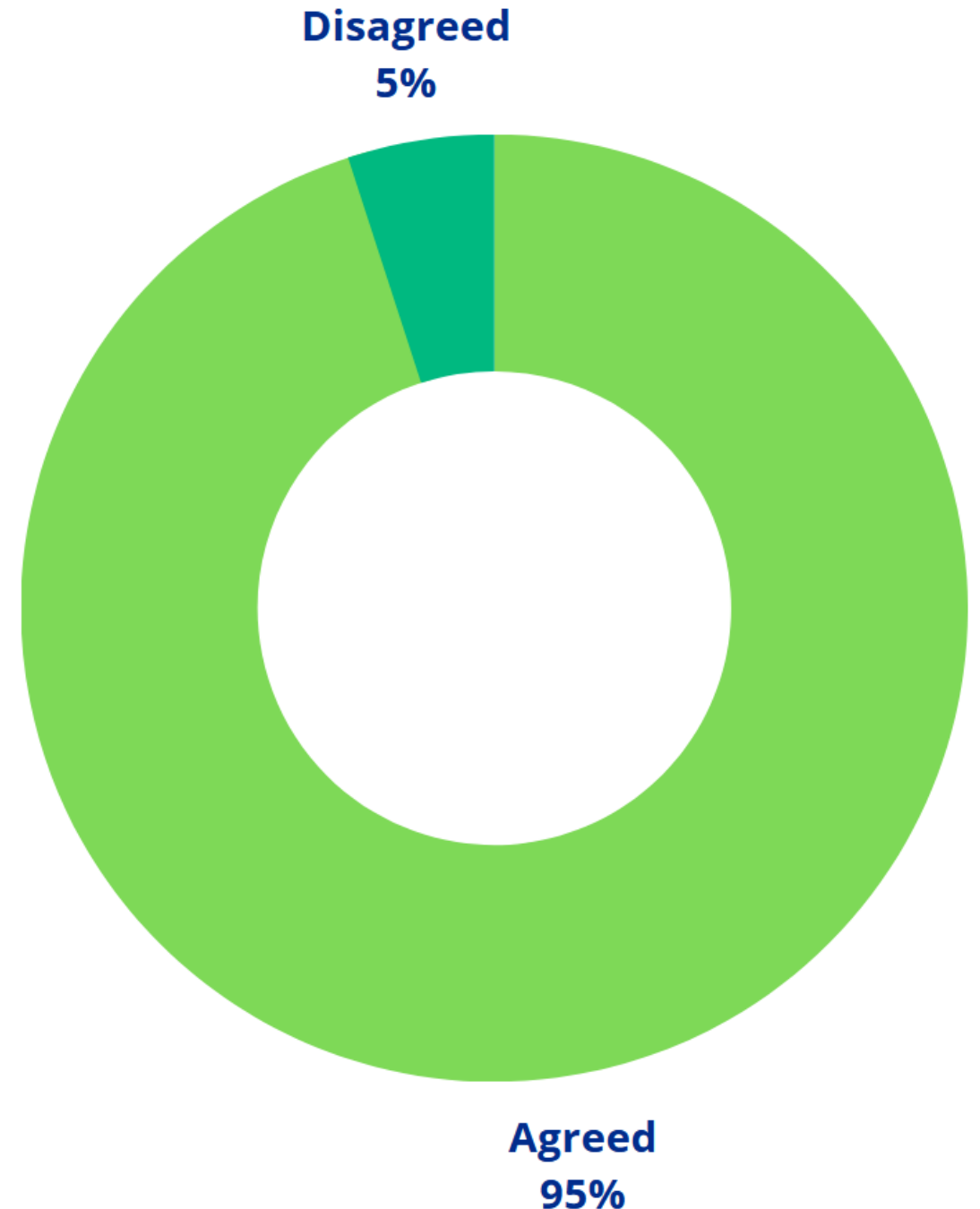
IT leaders are currently making good use of emerging technologies
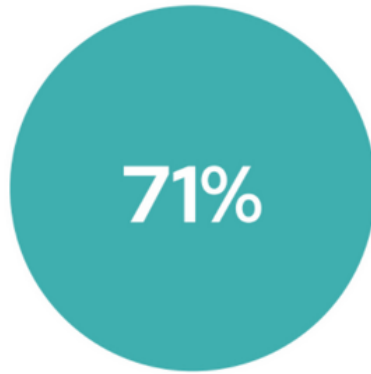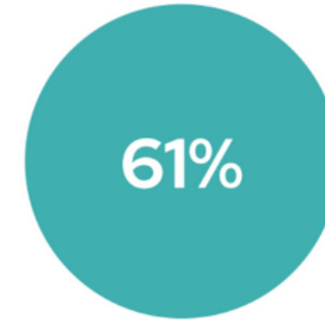
71%	71%	68%	61%
Artificial intelligence (AI) or machine learning (ML)	Edge computing or Internet of Things (IoT)	Containers	Serverless computing

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

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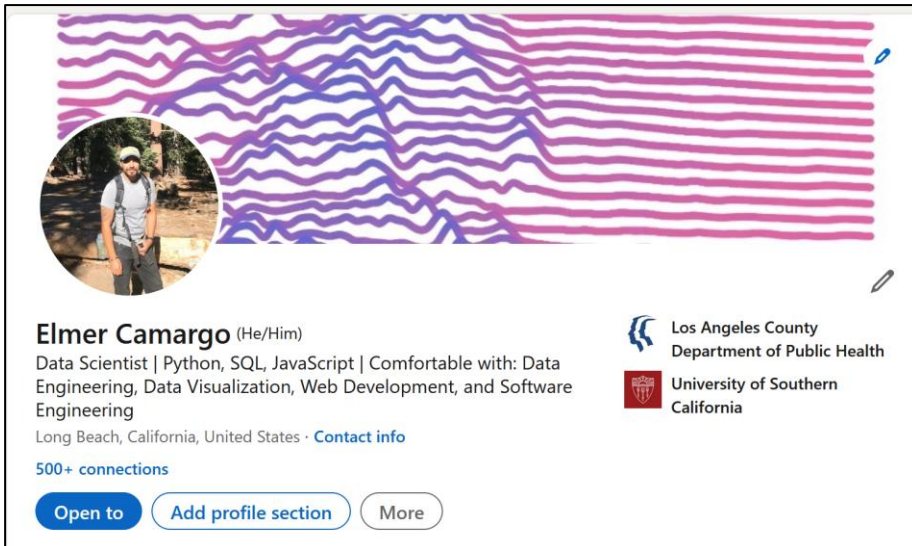

80%
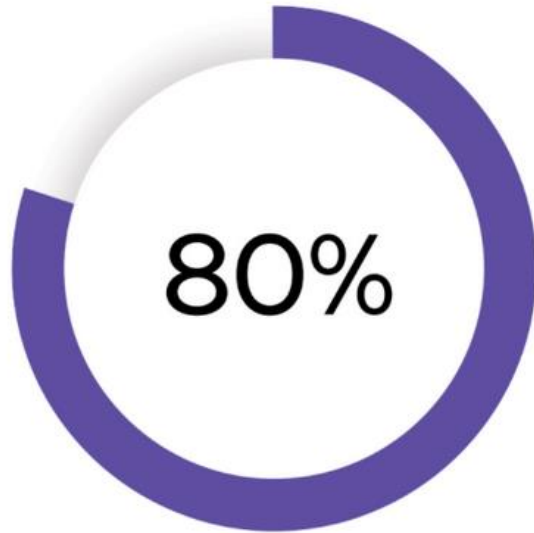
of IT leaders expect to increase their use of enterprise open source software for emerging technologies.

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

Companies are using open-source tech because it drives an absurd amount of innovation

Recommendations

- Whatever your industry, investigate the software that drives it

- Read about open-source business models
  - Or ask me about it later

Elmer Camargo (He/Him)
Data Scientist | Python, SQL, JavaScript | Comfortable with: Data Engineering, Data Visualization, Web Development, and Software Engineering

Los Angeles County Department of Public Health

University of Southern California

Long Beach, California, United States · Contact info

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