

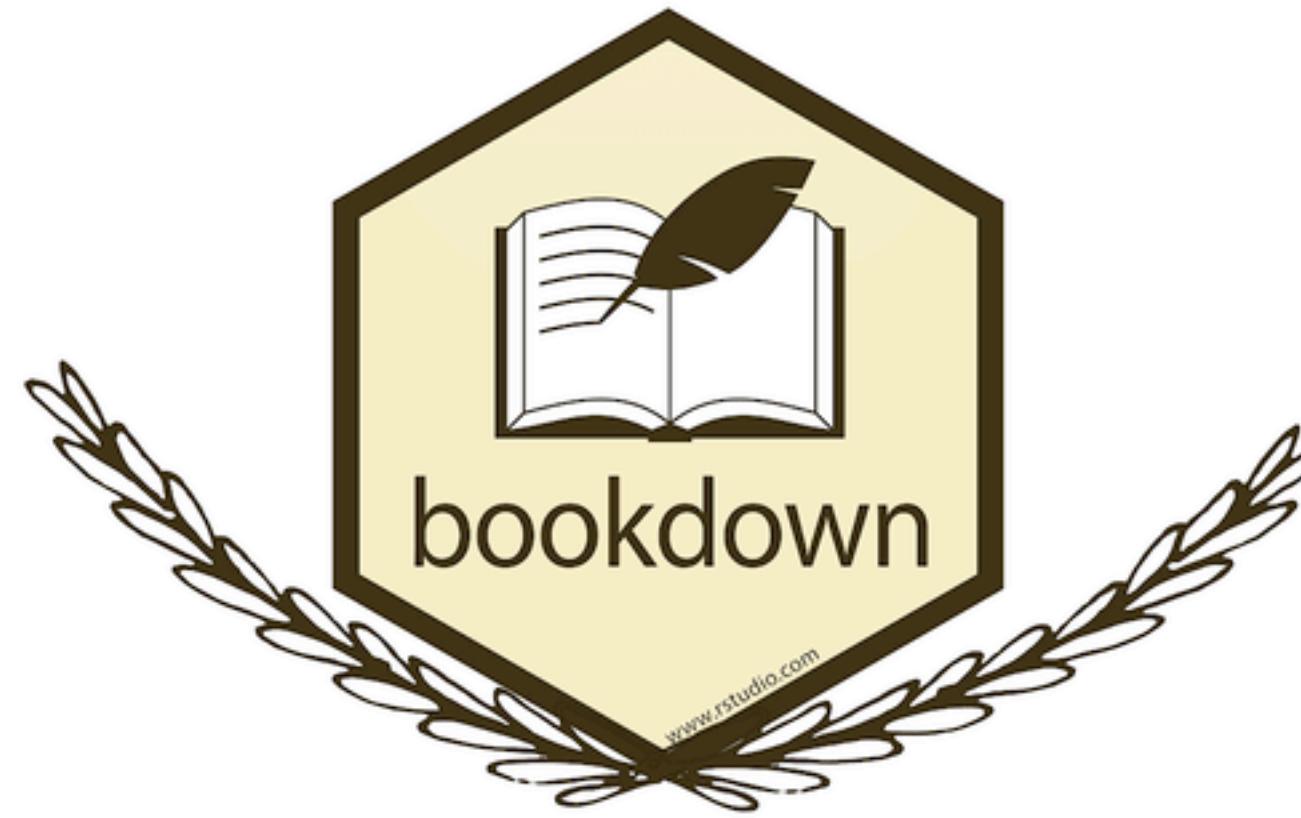


MAKING THE

Shiny CONTEST

Mine Çetinkaya–Rundel

Inspiration



the bookdown contest

"With this contest, I want to encourage bookdown users to share your authoring experience and the extensions you have developed to make it even easier for other users to write their own books, reports, and dissertations, etc."

- Yihui Xie, 2018

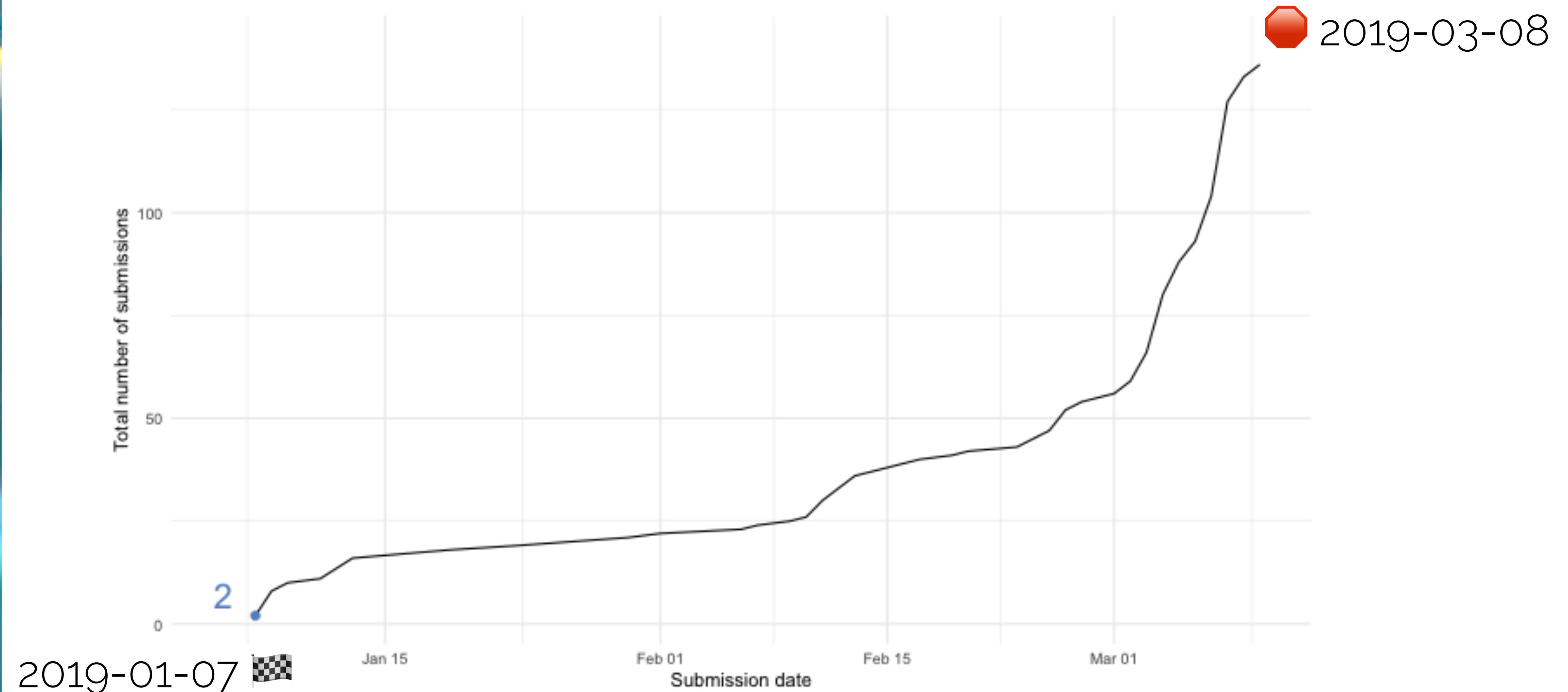


- ✨ We love seeing and sharing all the exciting apps, dashboards, and interactive documents Shiny developers have produced
- ✨ When Shiny developers openly share their code and process for so others can learn from their experience
- ✨ Our former User Showcase featured some fantastic apps developed by the Shiny community, but not all apps had their code available

A blurred background image of colorful, iridescent bubbles against a dark teal gradient.

Motivation

So many akes!



nsgrantham Shiny Contest Winner

2019-03-03

Tidy Tuesday is a weekly social data project in R. Every week @thomas_mock and @R4DSCommunity post a new dataset and ask R users to explore it and share their findings on Twitter with #TidyTuesday . Since the first dataset was posted on April 2nd, 2018, there are now over 40 datasets and more than 800 #TidyTuesday tweets from 221 users!

I built **tidytuesday.rocks** to make it easy to see how the community explored each dataset: the data transformations they applied, the plots they made, and the code that got them there. Use the options to filter tweets by dataset and sort them by date, likes, and retweets. My hope is that you will draw inspiration from the friendly and talented Tidy Tuesday community! And why not contribute your own visualization next Tuesday? 😊

Links

- Shinyapps: <https://nsgrantham.shinyapps.io/tidytuesdayrocks/>
- RStudio Cloud: <https://rstudio.cloud/project/246977>
- GitHub: <https://github.com/nsgrantham/tidytuesdayrocks>

tidytuesday.rocks

Tidy Tuesday is a weekly social data project in R. Every week @thomas_mock and @R4DSCommunity post a new dataset and ask R users to explore it and share their findings on Twitter with #TidyTuesday .

Since the first dataset was posted on April 2nd, 2018, there are now over 40 datasets and more than 800 #TidyTuesday tweets from 221 users! Use the options below to filter the tweets by dataset and sort them by date, likes, and retweets.

I built tidytuesday.rocks with Shiny using tweets collected at the end of 2018 with rtweet (tweets from 2019 are coming soon). You can find the source code on GitHub, where issues and PRs are welcome. I'd love to hear your feedback, say hi @nsgrantham.

Happy plotting!

Choose a dataset

FIFA World Cup Audience

Sort tweets

Most retweets

FIFA World Cup Audience

Data Article Source

Tweets sorted by most retweets



Ryo Nakagawa
@R_by_Ryo

one of my 🏆 for #TidyTuesday : Tried to re-create FiveThirtyEight's heatmap as much as possible (will post some "original" plots tomorrow). Lots of fiddling with annotation_custom() and grobs, esp. to get y-axis title on top!
#r4ds #rstats

19 7:44 PM - Jun 13, 2018

See Ryo Nakagawa's other Tweets



required

Code (GitHub repo)

RStudio Cloud project

Deployed app

nice to have

Summary

Highlights

Screenshot

outcome

Runner up

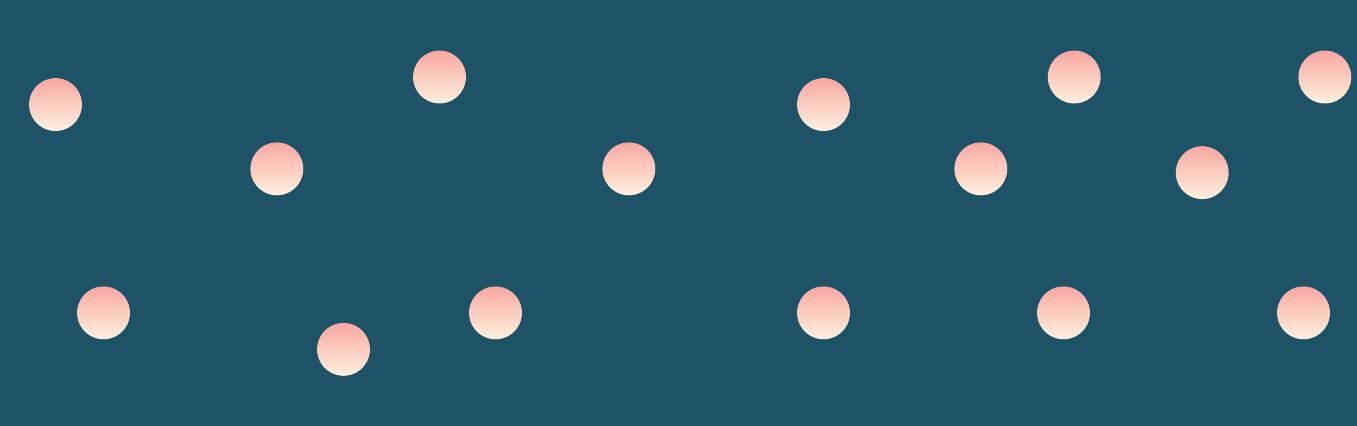
- Impressive game
- Super clean code

Participating

What we said

- ✓ Apps will be judged based on technical merit and/or artistic achievement (e.g., UI design)
- ✓ Evaluation will keep in mind that some apps may excel in one of these categories, some in the other, and some in both
- ✓ We will also consider feedback/reaction on RStudio Community

Calculate percentiles of likes, bin submissions in 3 categories



Browse a random sample of 15 deployed apps to help develop a rubric



First pass of all deployed apps to categorise into consider further or not



Rate all passed submissions on the rubric, making sure all three components are there

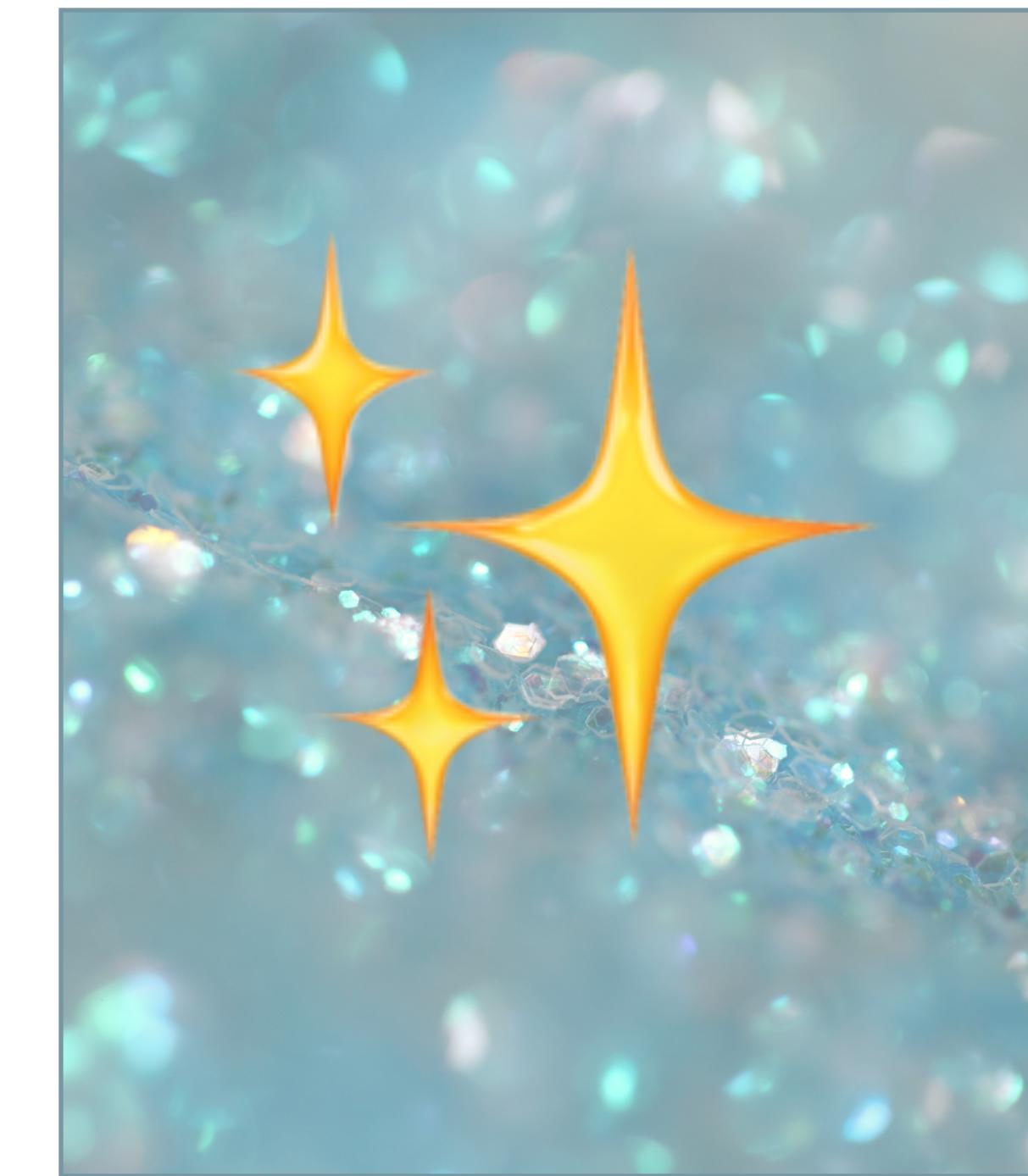
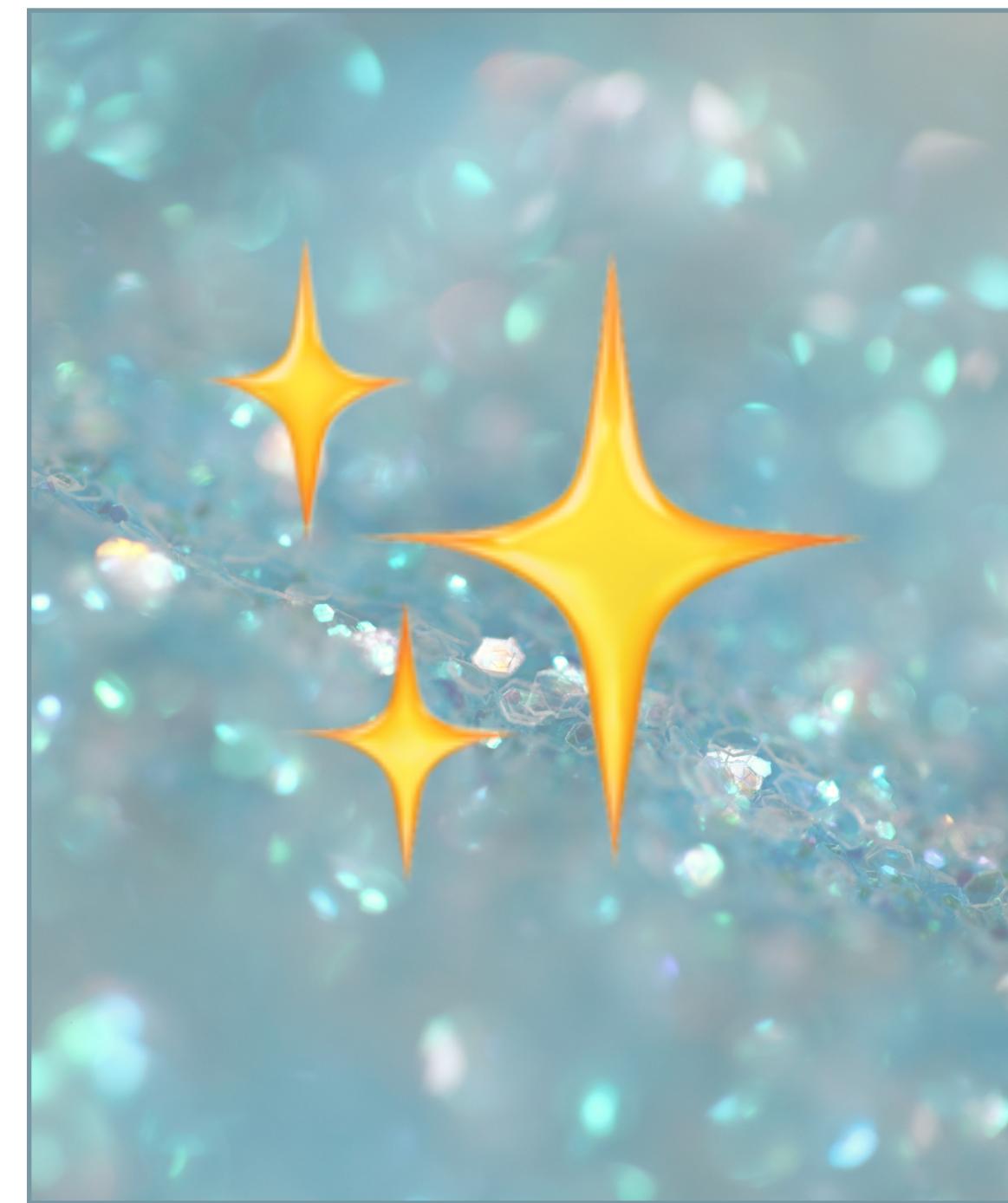


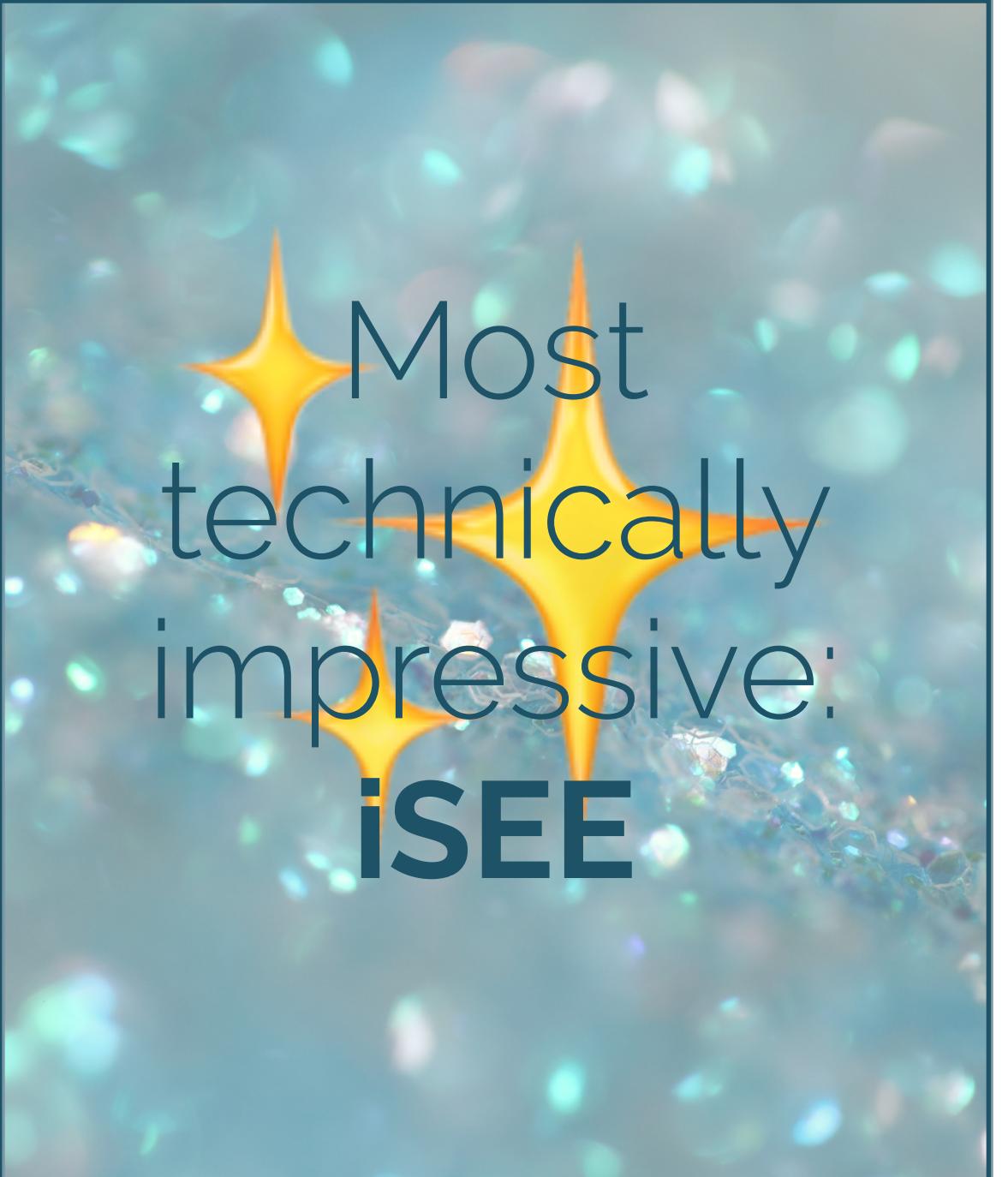
For any app that scores in the top 30, make sure RStudio Cloud project works and produces the same result, if not, move to next app, and then, pick top 15 apps among these



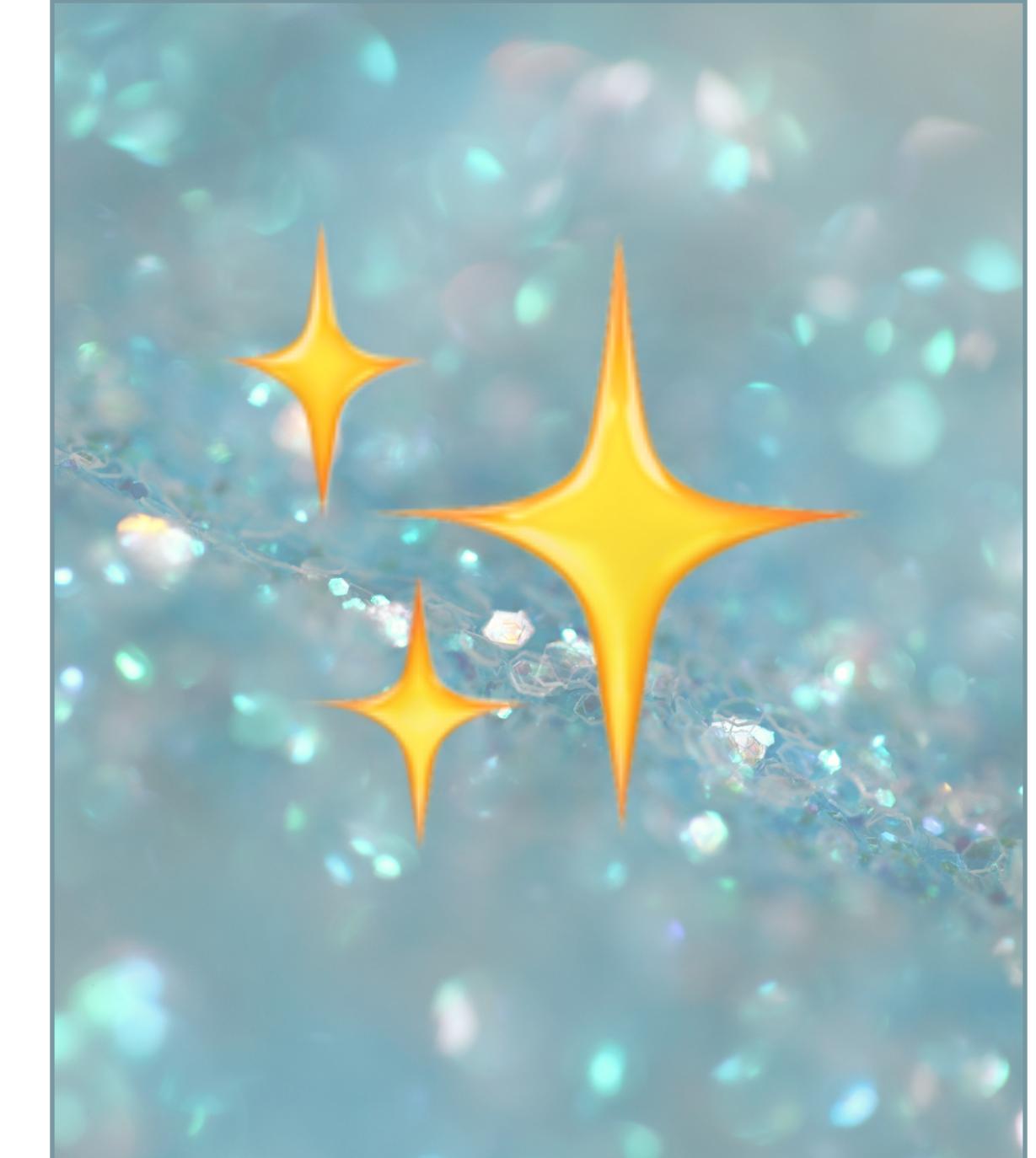
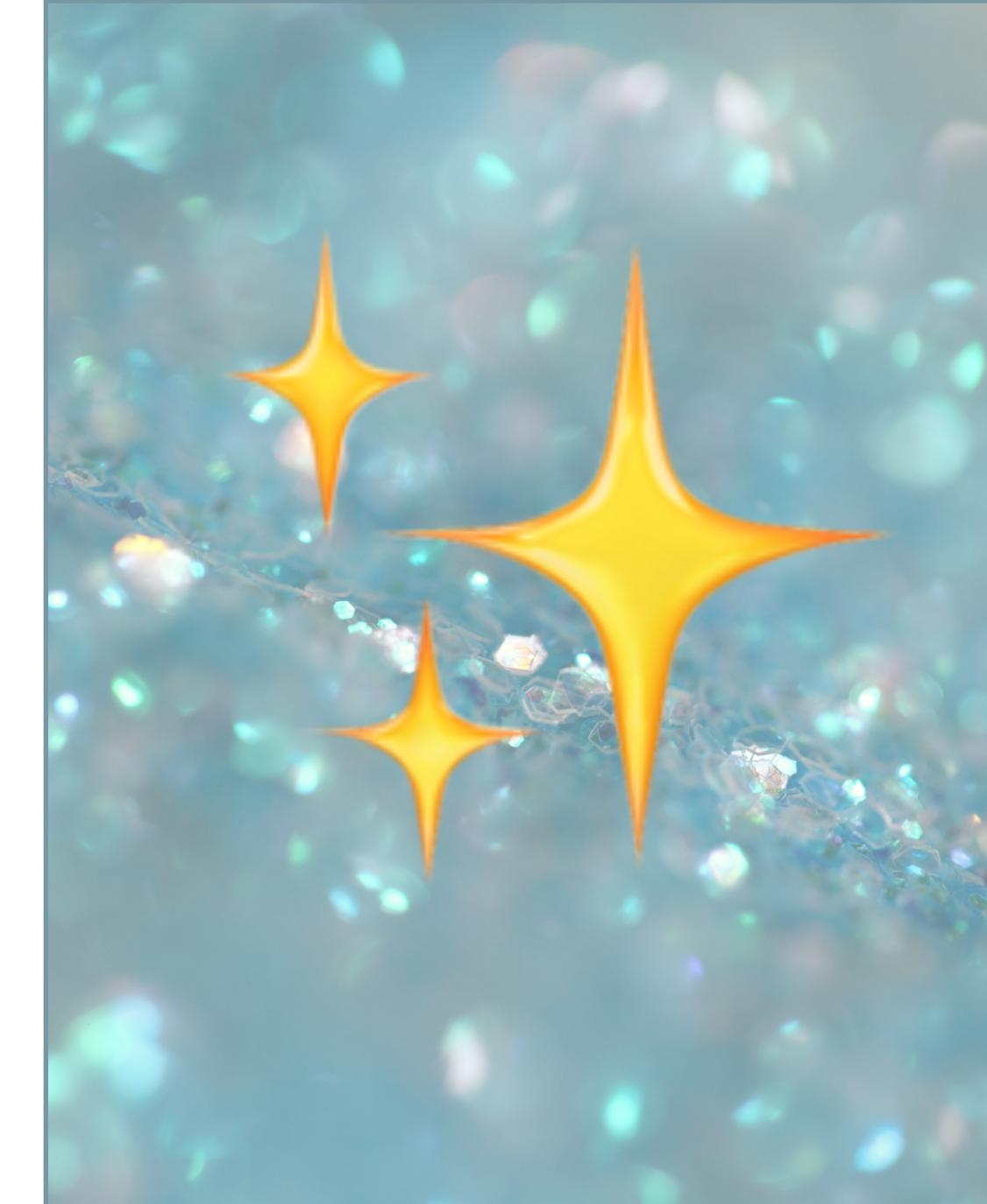
Evaluate top 15 apps more thoroughly (with Joe!) to pick winners

What we did





Most
technically
impressive:
iSEE



Choose panel type:

Reduced dimension plot

Add new panel

Reduced dimension plot 1

(1) PCA

Dimension 2

Dimension 1

Column data plot 1

NREADS

Feature assay plot 1

0610007P14Rik

0610007P14Rik (logcounts)

by Kevin Rue, Charlotte Soneson, Federico Marini, Aaron Lun

Data parameters

Visual parameters

Selection parameters

Data parameters

Visual parameters

Selection parameters

Row statistics table 1

Selection parameters

Choose panel type:

Reduced dimension plot

Add new panel

Reduced dimension plot 1



Column data plot 1



Feature assay plot



Row statistics tab



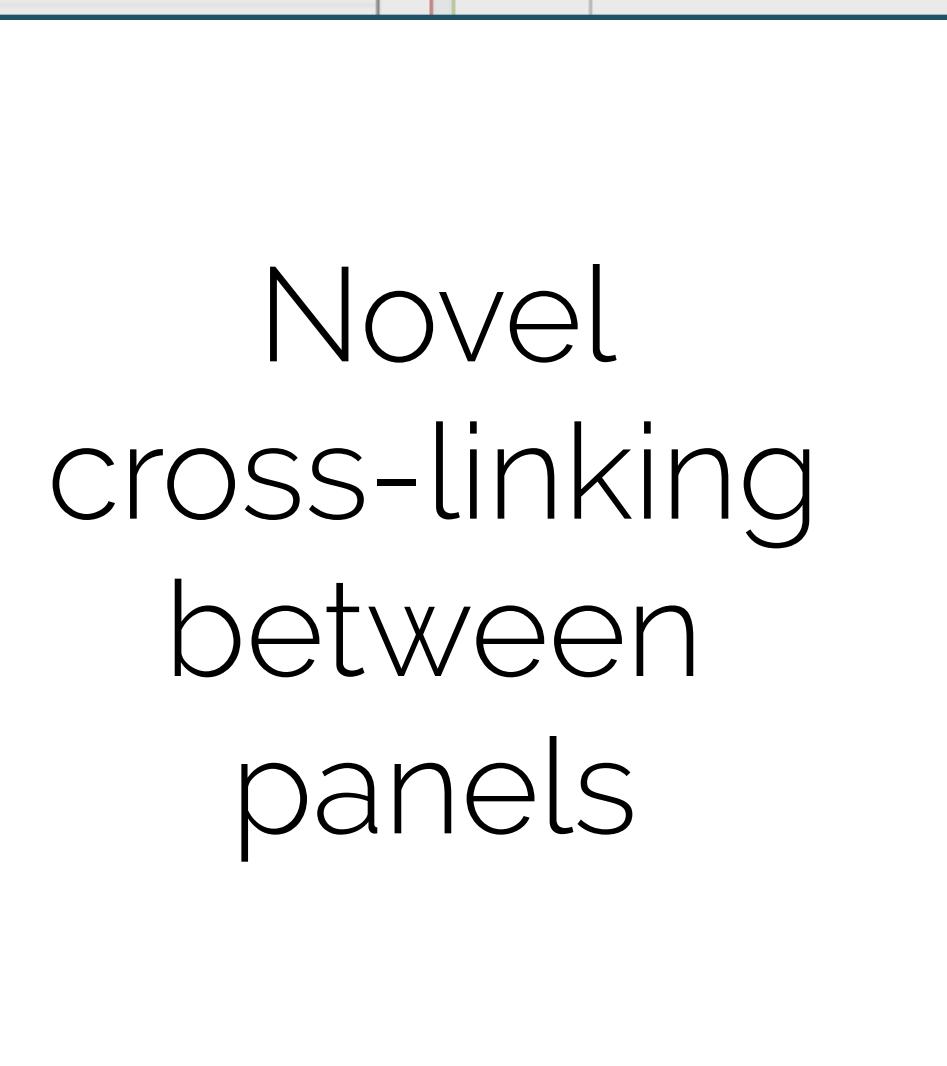
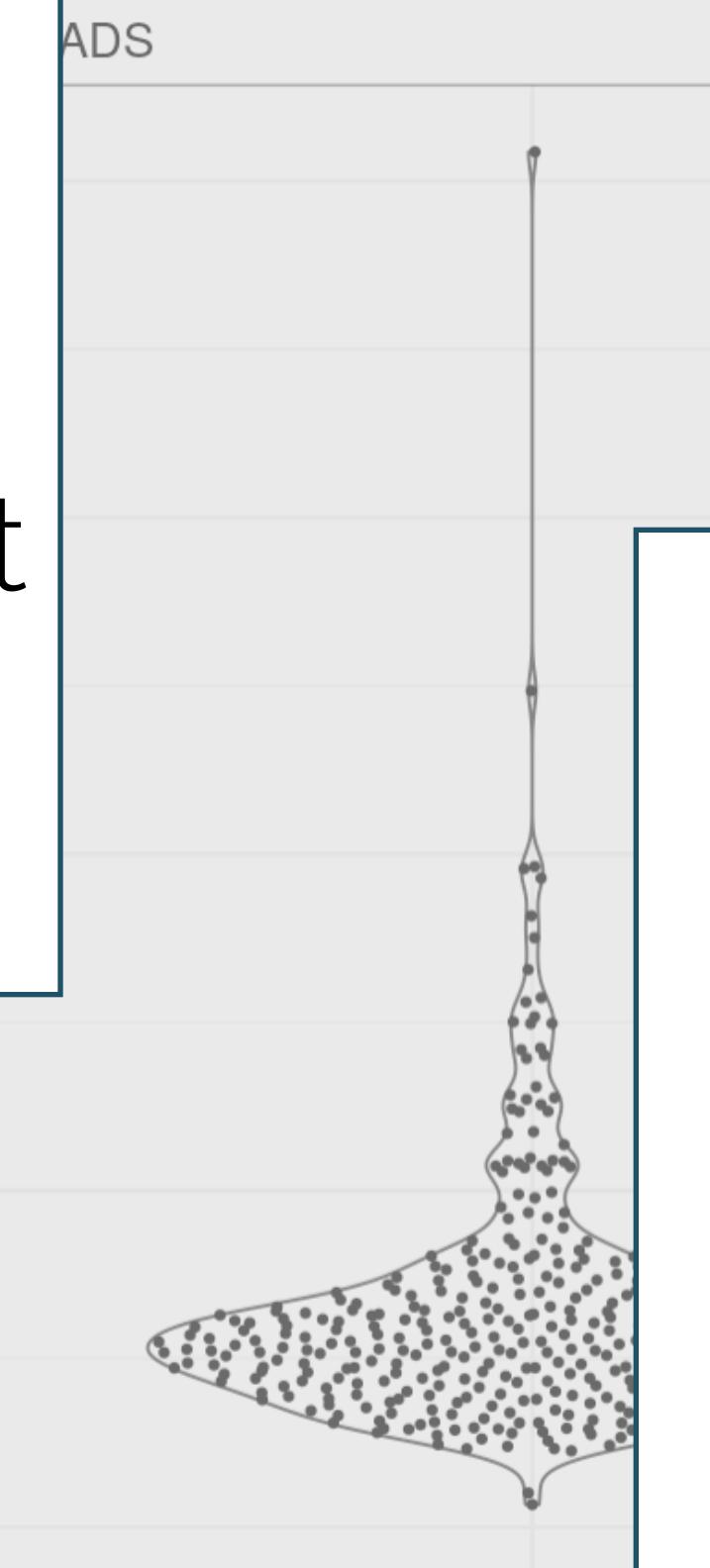
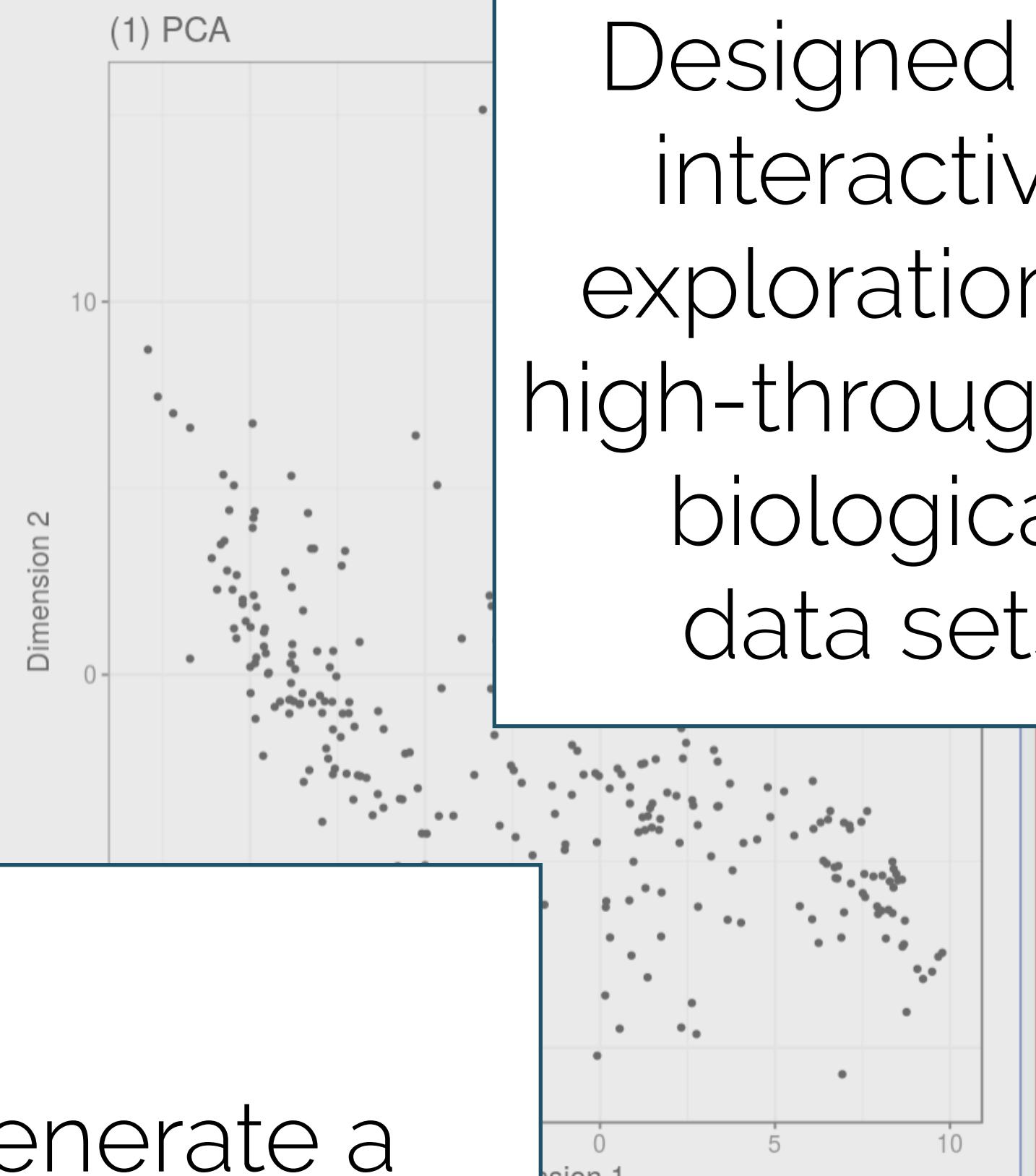
Reduced dimension plot 1

Column data plot 1

Feature assay plot 1

Designed for
interactive
exploration of
high-throughput
biological
data sets

Generate a
reproducible R
script!!!



Data parameters

Visual parameters

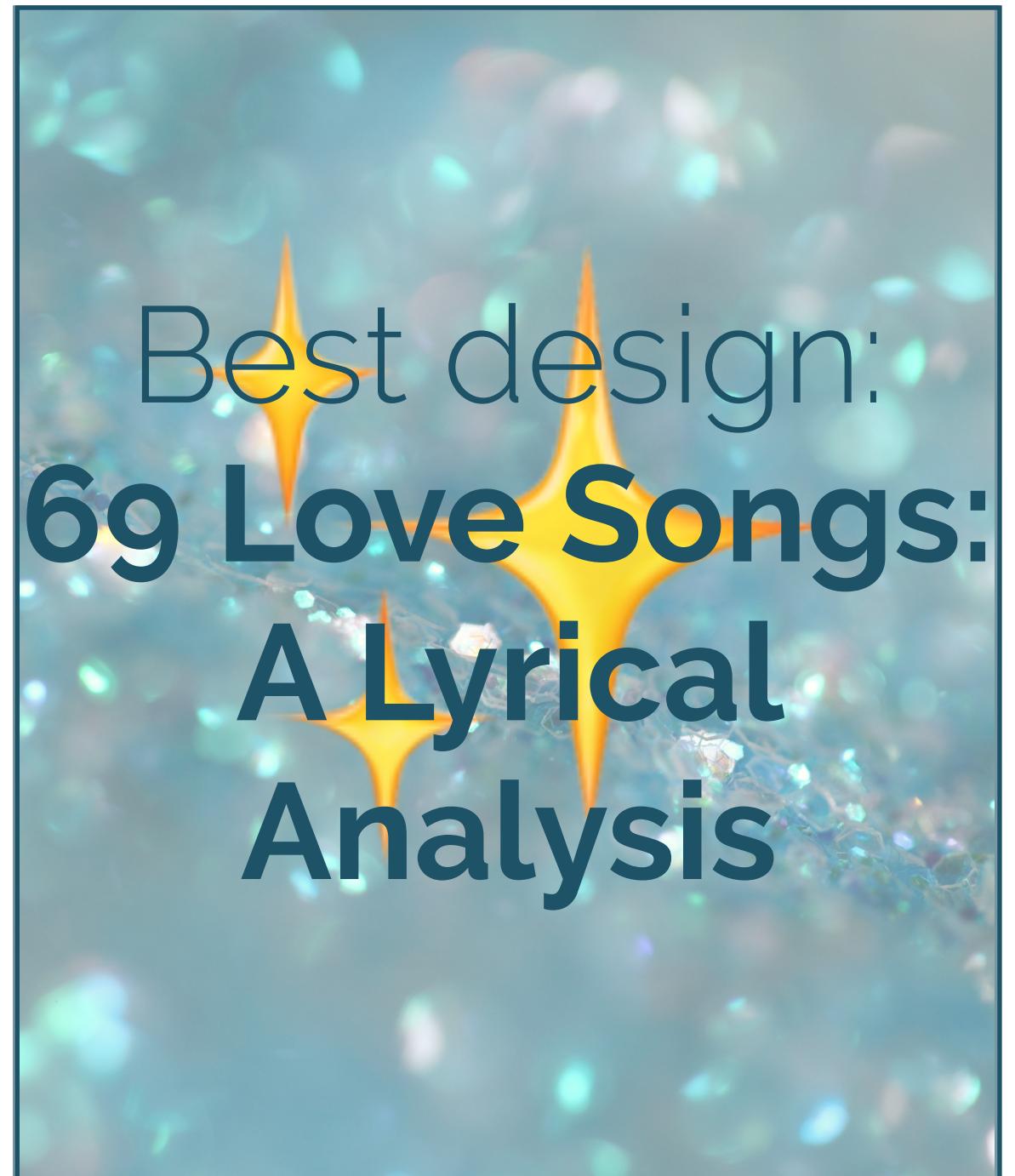
Selection parameters

Data parameters

Visual parameters

Selection parameters

Most
technically
impressive:
iSEE



69 Love Songs: A Lyrical Analysis

"Don't fall in love with me yet, we've only recently met..." 1.1 - Absolutely Cuckoo

In 1999, the indie-pop band **Magnetic Fields** released the album **69 Love Songs**. Conceived and written by frontman, Stephin Merritt, it is a three-volume concept album containing (yep, you guessed it) 69 love songs.

Merritt has described the album as "...not remotely an album about love. It's an album about love songs..."

So, what does Stephin sing about when he sings about love (songs)?

Play with this interactive tool and find out!



Built by **committedtotape** using the power of Rstudio and Shiny.

R Packages: tidyverse, tidytext, wordcloud2, tidygraph, vizNetwork, glue.

Sources: [genius.com](#) for lyrics, [wikipedia](#) for singers.

69 Love Songs: A

"Don't fall in love with me yet, we've on

In 1999, the indie-pop band **Magnetic Field** released their first concept album containing (yep, you guessed it) 69 songs. Merritt has described the album as "...no one song is about love." So, what does Stephin sing about when he's not singing about love? Play with this interactive tool and find out.

Incredible visual appeal, especially with colours that match album cover

Sis

Cuckoo

Conceived and written by frontman, Stephin Merritt, it is a three-volume series of albums. The first volume, *Cuckoo*, is an album about love; the second, *Wings*, is about relationships; and the third, *Sis*, is about family.

Web scraping,
text analysis,
wide variety of
visualisations

Thoughtful
storytelling!



Built by **committedtotape** using the power of Rstudio and Shiny.

R Packages: tidyverse, tidytext, wordcloud2, tidygraph, vizNetwork, glue.

Sources: [genius.com](#) for lyrics, [wikipedia](#) for singers.

Most
technically
impressive:
iSEE

Best design:
69 Love Songs:
A Lyrical
Analysis



Hex memory game

Find matching hex!

Time elapsed: 31



Any attempt at a game with Shiny is incredibly impressive, and this one works so well!



Clean, easy to reason code, despite its complexity

Most
technically
impressive:
iSEE

Best design:
69 Love Songs:
A Lyrical
Analysis

Best design:
69 Love Songs:
A Lyrical
Analysis



Pet Records

Select pet:

Layla
 Lloyd



DOB: 07-21-2009
Species: canine
Breed: basset/boxer mix
Sex: spayed female
Color: white with brown spots

Weight History (lbs.)



Date	Weight
02-09-2019	48.9

Medical History and Tests Timeline

Click an item to view more details or test results (where available). The information is shown below the timeline.

Select Date Range: to Show routine visits

Medical History

- UTI and Pancreatitis cleared
- Fluids to treat pancreatitis
- UTI Pancreatitis

Test History

- Urine Culture
- Urinalysis
- Blood Work

- Fecal Test
- Blood work

by Jenna Allen

Pet Records

Select pet:

- Layla
- Lloyd

Medical History Vaccine History Medication History Vet History

Medical History and Tests Timeline

Click an item to view more details or test results (where available). The information is shown below the timeline.

Select Date Range: to Show routine visits

Medical History

UTI and Pancreatitis cleared

Fluids to treat pancreatitis

UTI Pancreatitis

Hemorrhagic gastroenteritis (HGE)

Urine Culture

Urinalysis

Blood Work

Urinalysis

Urine Culture

Blood Work

Fecal Test

Blood work

DOB: 07-21-2009
Species: canine
Breed: basset/boxer
Sex: spayed female
Color: white with br spots

Weight History (lb)

Date Weight

02-09-2019 48.9

Oct Nov Dec Jan Feb Mar Apr May Jun

Incredibly effective timeline visualisations

Use of drill-downs, all the way to vaccine certificates in PDF!

Keeping vaccination and other medical records for Layla and Lloyd

Lessons learned

- * Participants should categorise themselves into experience levels
- * Code review across developers who don't work in the same team following the same style/workflow guides is difficult!

R Package Explorer

Browse the CRAN package database and package dependencies.

 15,863
packages

 05 Mar 2019
data updated

🏅 Runner up: CRAN Explorer

- Very striking CRAN explorer
- Great example of HTML Template usage, with extremely clean separation between the R UI and the raw HTML UI

Lessons learned

- * Participants should categorise themselves into experience levels
- * Code review across developers who don't work in the same team following the same style/workflow guides is difficult!
- * Start reviewing earlier so we can turn the results around faster!

Lessons learned

- * Participants should categorise themselves into experience levels
- * Code review across developers who don't work in the same team following the same style/workflow guides is difficult!
- * Start reviewing earlier so we can turn the results around faster!
- * Help contestants by providing more guidance for what makes a good submission

🔒✉️ Shiny Contest Submission: A Virtual Lab for Teaching Physiology

shiny shiny-contest



DGranjon Shiny Contest Winner

9 🖊 2019-03-05

Dear Shiny People,

This time, it is about a scientific/teaching submission 😊 Enjoy

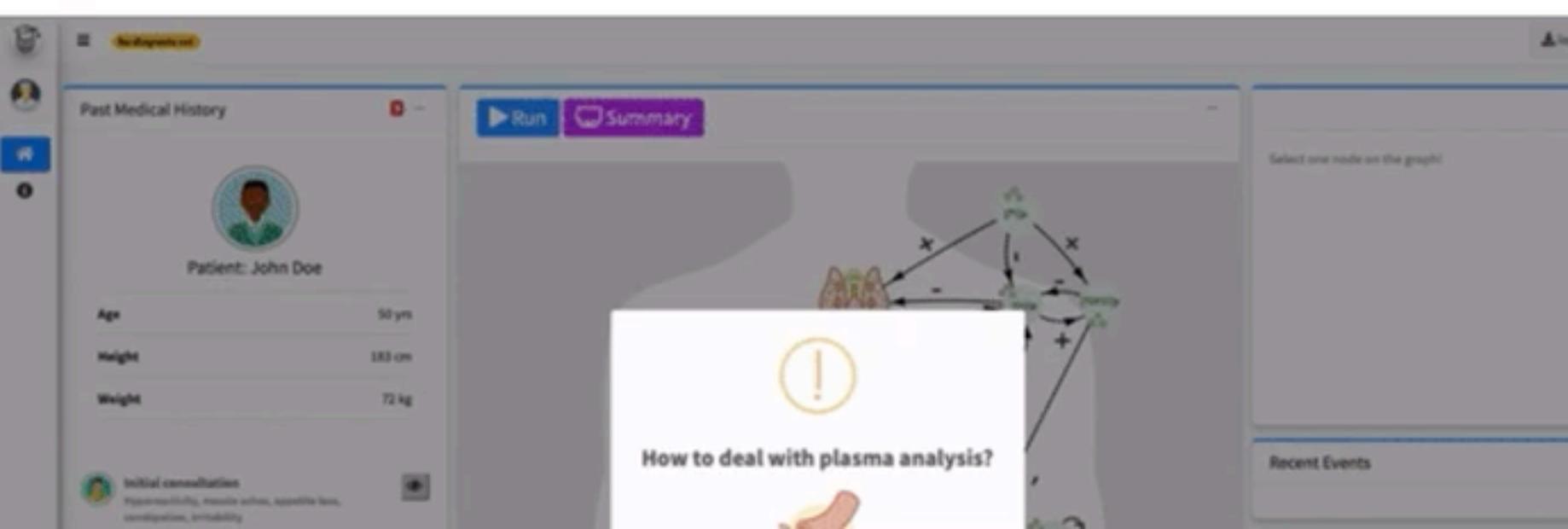
Useful Links:

I must admit that this post is a bit long. Therefore, if you are bored to read the text, you can directly access all apps below.

Importantly, never use Firefox nor IE!

- [Apps.Physiol eLearning](#)
- [Entry level App](#)
- [Virtual Patient simulator](#)
- [Github](#)
- [RStudio Cloud](#)
- [Apps Physiol website Repo](#)

Virtual Patient Simulator



Jobs & Gigs

RStudio - Customer Success Representative - USA

ROpenSci - Intern with rOpenSci's Community Manager

RStudio - Apply for Future Consideration

Publications

RStudio Vision - Tareef Kawaf - rstudio::conf(2019L) video

RStudio Connect Past, Present, and Future - Jeff Allen - rstudio::conf video



START RADAR

ANTIMICROBIALS

PATIENTS

YEAR

SPECIALTY

ORIGIN

DIAGNOSTICS

DOWNLOAD SELECTION



PAT

Subspecialties



0



Subspecialties

Total number of

Subspecialty

Internal medicine

Thorax

Surgery

Gynaecology

Psychiatry



WELCOME TO RadaR

An interactive open source software tool for rapid analysis of diagnostic and antimicrobial patterns in R (RadaR).

RadaR enables intuitive, rapid and reproducible quality of care pattern analysis of infectious patients without prior software experience. It facilitates understanding and communication of important trends, performances and patient outcome. Preprint available here:
<https://doi.org/10.1101/347534>

WHAT YOU CAN DO WITH RadaR:

- Find patients receiving antimicrobials, selected by their first prescription and filter or stratify by various groups.
- Check whether diagnostics have been performed in a given time.
- Analyse how long patients stay in hospital.
- Identify areas within the hospital that might benefit from **antimicrobial stewardship** interventions.

Look out for for additional options in graphs and tables.

If you need any help click the ? in the header.

IMPORTANT: This example of RadaR uses simulated patient data. This data was created for the purpose of displaying a running online version of RadaR and does not represent any real patients.

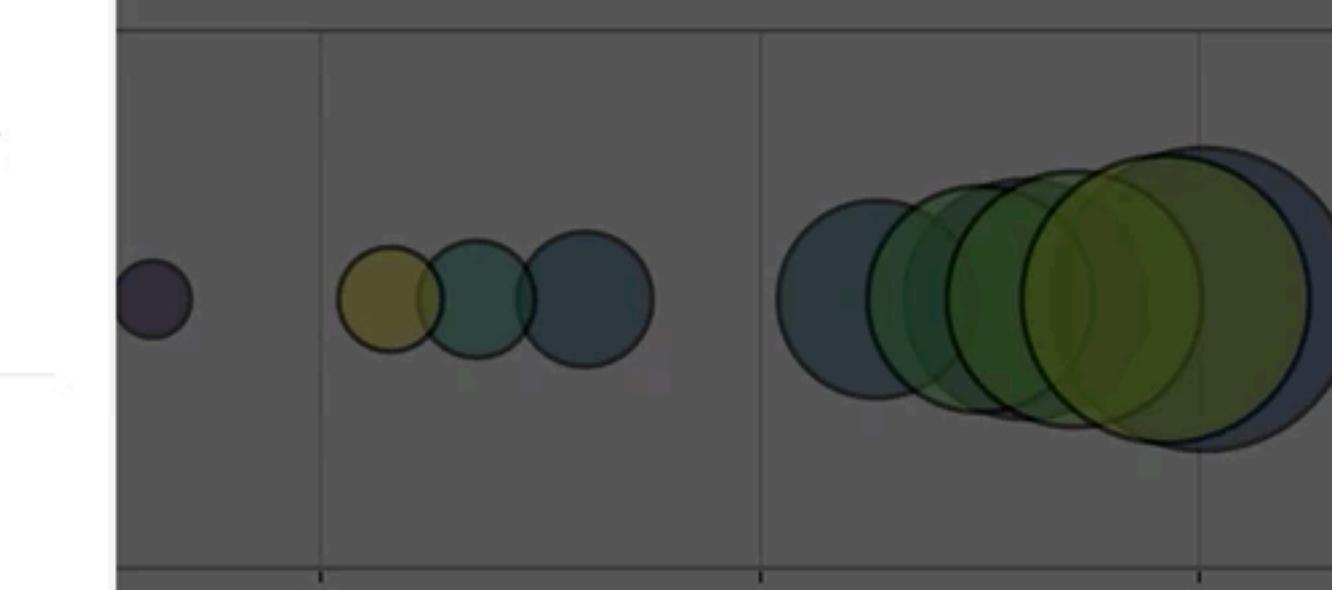
UMCG Groningen, 2018 | contact: c.f.luz@umcg.nl

INTRODUCTION TOUR

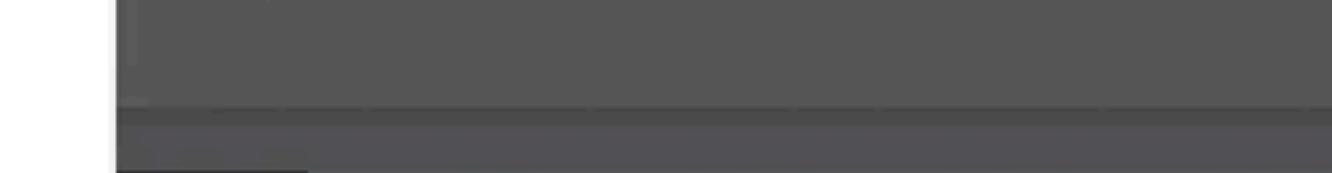
ISTICS

OUTCOME

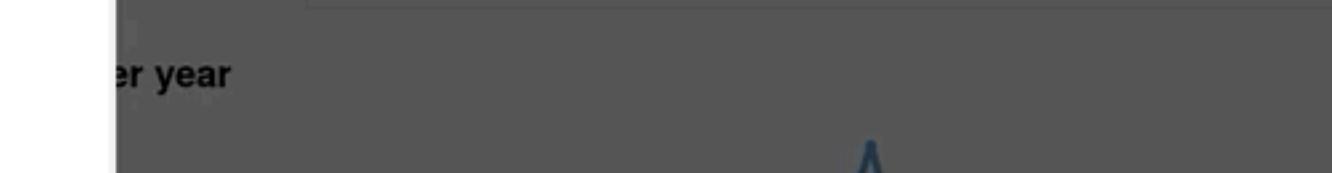
Antimicrobials per year



Number of patients per year



Number of admissions per year



Number of prescriptions per year



Number of laboratory tests per year



Number of radiological procedures per year

(Line represents median; if red-dotted = signal for non-random variation)



What's next?

Gallery

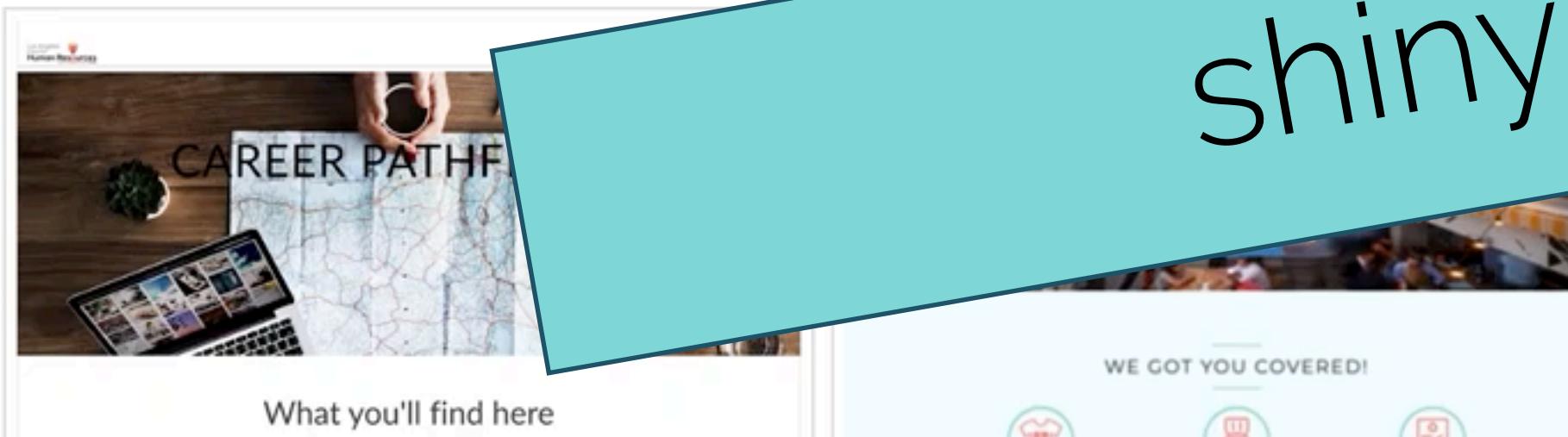
Welcome to the Shiny Gallery! Below you can find a myriad of Shiny apps to be inspired by and to learn from. We have organized the apps in two main categories:

- **Shiny User Showcase** comprised of contributions from the Shiny app developer community.
- **Shiny Demos** that are designed to highlight specific features of shiny, the package.

Shiny User Showcase

The Shiny User Showcase is comprised of contributions from the Shiny app developer community. The apps are categorized into application areas presented with a brief description, tags, and for many, the source code. Note that many of these apps are winners and honorable mention from our annual contest!

Consulting



Career PathFinder

shiny.rstudio.com/gallery

Identifying real estate investment opportunities

✉ Shiny Contest 2020 is here! 📝

shiny

Shiny Contest

shiny-contest



mine ✨ RStudio Employee

3 🖊 11h

Shiny apps are a great way to communicate your data science insights with striking, dynamic, interactive visualizations and reports. Over the years, we have loved interacting with the Shiny community and loved seeing and sharing all the exciting apps, dashboards, and interactive documents Shiny developers have produced. So last year we launched the Shiny contest and we were overwhelmed (in the best way possible!) by the 136 submissions! Reviewing all these submissions was incredibly inspiring and humbling. We really appreciate the time and effort each contestant put into building these apps, as well as submitting them as fully reproducible artifacts via RStudio Cloud.

And now it's time to announce the 2020 Shiny Contest, which will run from 29 January to 20 March 2020.

You can submit your entry for the contest by filling the form at rstd.io/shiny-contest-2020 to generate a post on RStudio Community, which you can then edit to

View all [Shiny Contest Submissions](#)
mention of last

We will feature the top winners and their submissions on the [RStudio blog](#), RStudio Community, and also on Twitter.

rstd.io/shiny-contest-2020

shiny.rstudio.com/gallery

rstd.io/shiny-contest-2020

MAKING THE *Shiny* CONTEST
Mine Çetinkaya-Rundel