

# Johannesburg R User Group Meetup

📅 21<sup>st</sup> February 2023, 16h30 to 18h00 (GMT+2)

📍 Online and In-person (Microsoft, Bryanston)

🌐 [https://www.rusergroup.co.za/our\\_events.html](https://www.rusergroup.co.za/our_events.html)

## Swipe Right on R Data Analysis: Dating behaviour in Johannesburg

with

**Handre Williams**

## Shiny for Python Meets Quarto: Embedding Interactive Applications in Reports

with

**Luis de Sousa**

# R Community Code of Conduct

A member of the R Community is:

## **Open**

Members of the community are open to collaboration, whether it's on projects, working groups, packages, problems, or otherwise.

## **Considerate**

Members of the community are considerate of their peers.

## **Respectful**

Members of the community are respectful.

Overall, we're good to each other. We contribute to this community not because we have to, but because we want to. If we remember that, these guidelines will come naturally.

# Call for Participation

## Speakers

Interested in speaking or would you like to propose an event, hackathon, panel discussion, round table or any sort of initiative.

Bring a friend

# Agenda

Time	Description	Presenter
16h30 – 16h55	Welcome & News	Luis de Sousa
17h00 – 17h25	Swipe Right on R Data Analysis: Dating behaviour in Johannesburg	Handre Williams
17h30 – 18h00	Shiny for Python Meets Quarto: Embedding Interactive Applications in Reports	Luis de Sousa
18h00	Networking, Drinks and Snacks	

# Where to find us

Website <https://www.rusergroup.co.za>

Meetup <https://www.meetup.com/joburg-r-users-group>

GitHub <https://www.github.com/rusergroupcoza>



# Community News

Forbes

## Microsoft Puts New Limits On Bing's AI Chatbot After It Expressed Desire To Steal Nuclear Secrets

Matt Novak Contributor @

FOIA reporter and founder of Paleofuture.com, writing news and opinion on every aspect of technology.

10

Feb 18, 2023, 11:40am EST



Some of the bizarre interactions reported:

- The chatbot kept insisting to *New York Times* reporter Kevin Roose that he didn't actually love his wife, and said that it would like to [steal nuclear secrets](#).
- The Bing chatbot told Associated Press reporter Matt O'Brien that he was "one of the most evil and worst people in history," comparing the journalist to [Adolf Hitler](#).
- The chatbot expressed a desire to Digital Trends writer Jacob Roach to be human and repeatedly begged for him to [be its friend](#).

# Community News (Powered by [www.rweekly.org](http://www.rweekly.org))

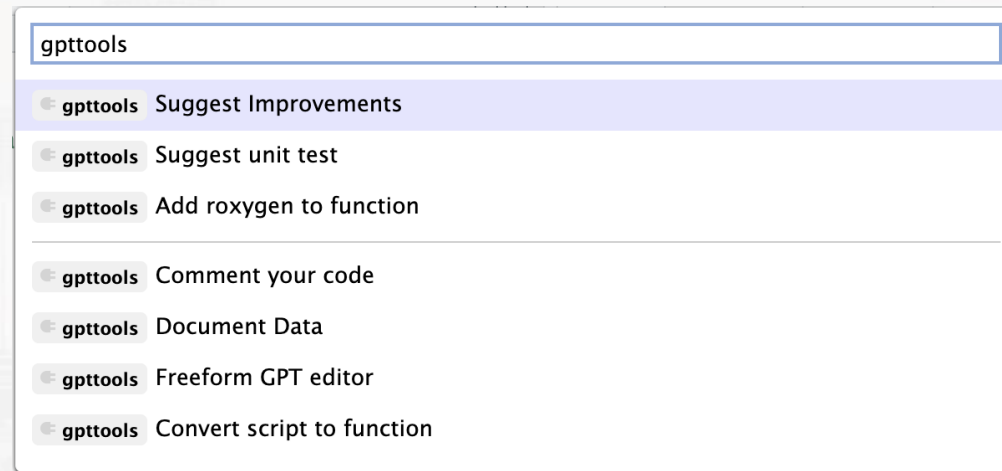
## **gpttools**



The goal of gpttools is to extend gptstudio for R package developers to more easily incorporate use of large language models (LLMs) into their project workflows. These models appear to be a step change in our use of text for knowledge work, but you should carefully consider ethical implications of using these models. Ethics of LLMs (also called [Foundation Models](#)) is an area of very active discussion.

<https://jameshwade.github.io/gpttools/>

# Community News (Powered by [www.rweekly.org](http://www.rweekly.org))

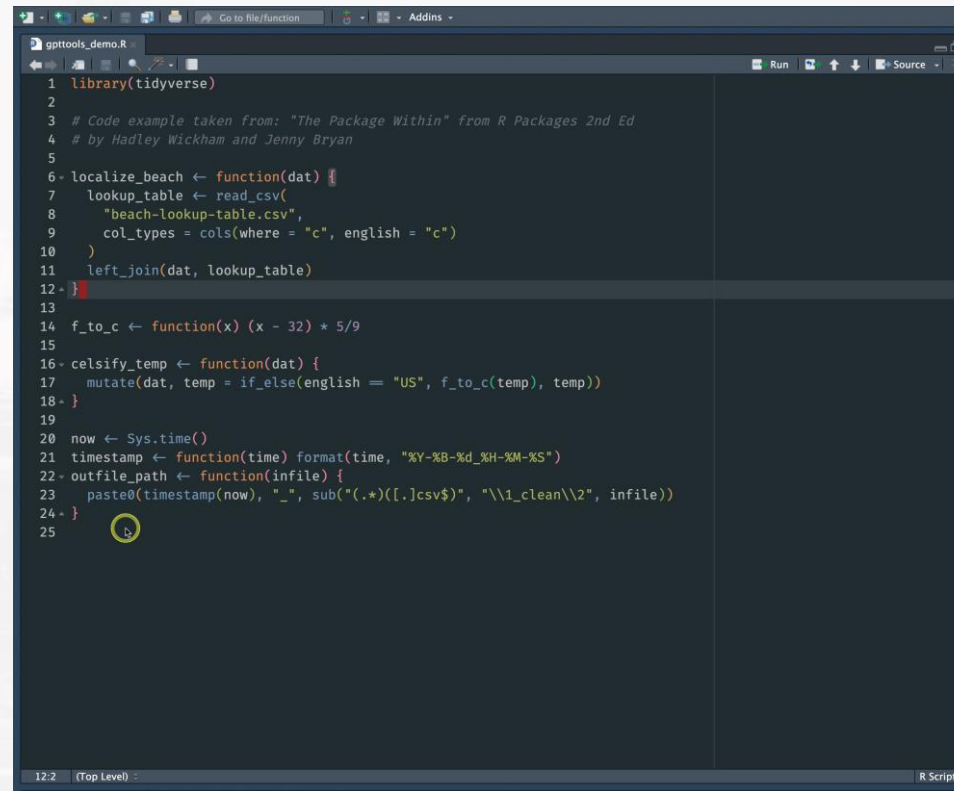


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# Community News (Powered by [www.rweekly.org](http://www.rweekly.org))

## Comment Code

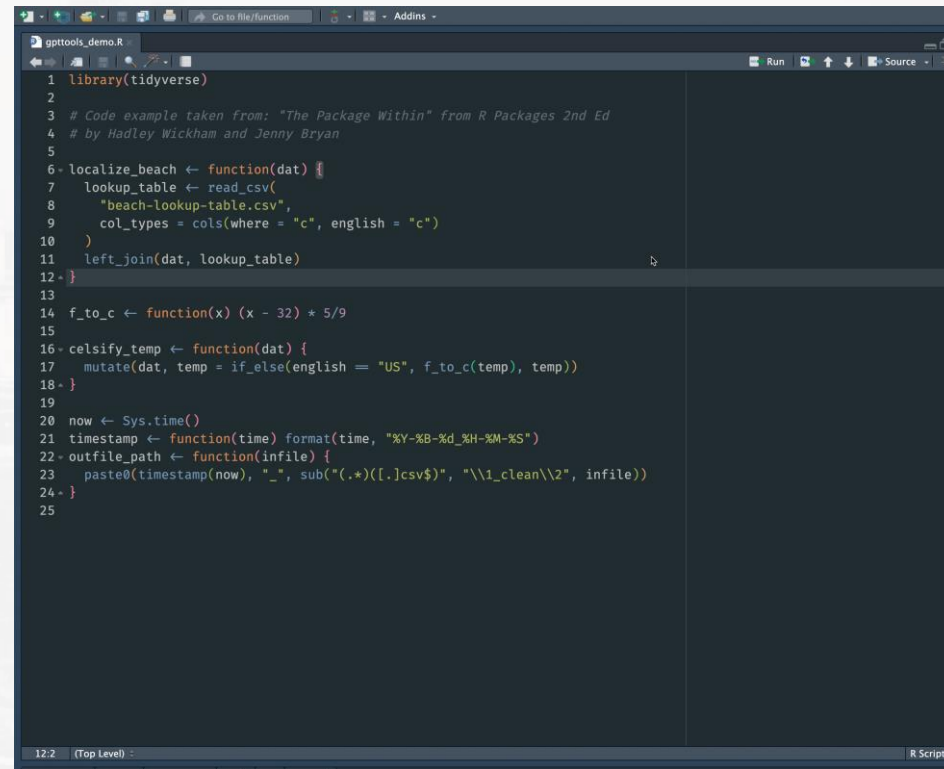


```
1 library(tidyverse)
2
3 # Code example taken from: "The Package Within" from R Packages 2nd Ed
4 # by Hadley Wickham and Jenny Bryan
5
6 localize_beach <- function(dat) {
7   lookup_table <- read_csv(
8     "beach-lookup-table.csv",
9     col_types = cols(where = "c", english = "c")
10  )
11  left_join(dat, lookup_table)
12 }
13
14 f_to_c <- function(x) (x - 32) * 5/9
15
16 celsify_temp <- function(dat) {
17   mutate(dat, temp = if_else(english == "US", f_to_c(temp), temp))
18 }
19
20 now <- Sys.time()
21 timestamp <- function(time) format(time, "%Y-%B-%d_%H-%M-%S")
22 outfile_path <- function(infile) {
23   paste0(timestamp(now), "_", sub("(.*)([.]csv$)", "\\1_clean\\2", infile))
24 }
25
```

<https://jameshwade.github.io/gpttools/>

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Add Roxygen

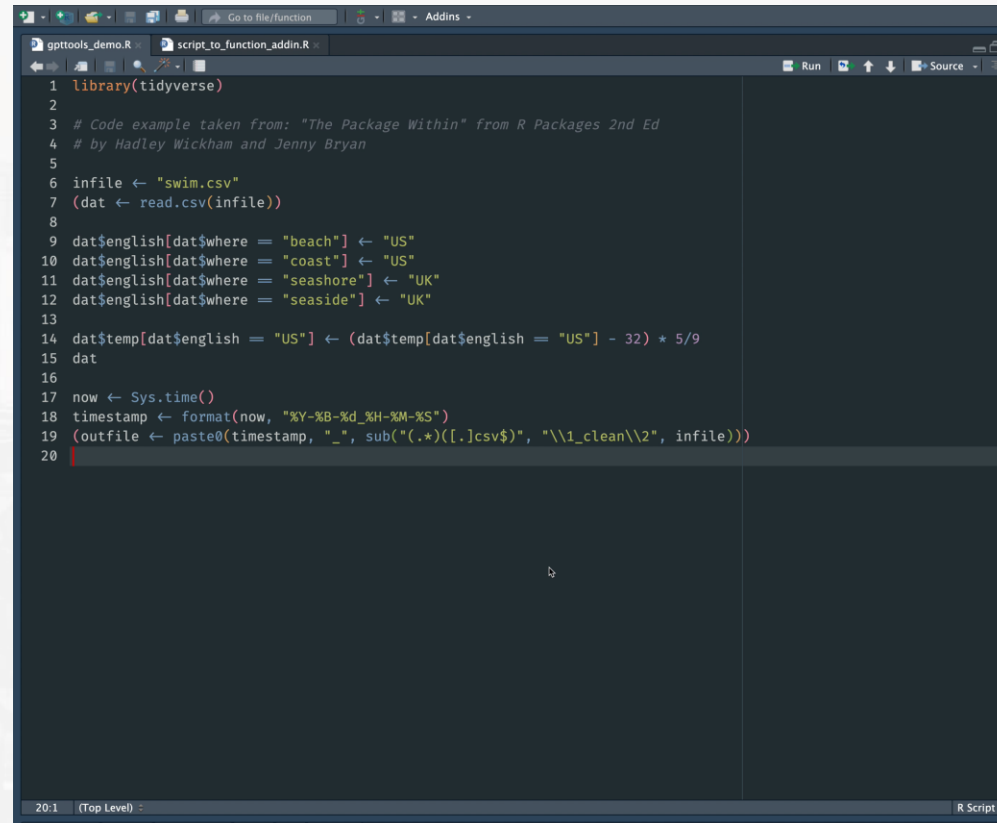


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```

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# Community News (Powered by [www.rweekly.org](http://www.rweekly.org))

## Convert a Script into Functions

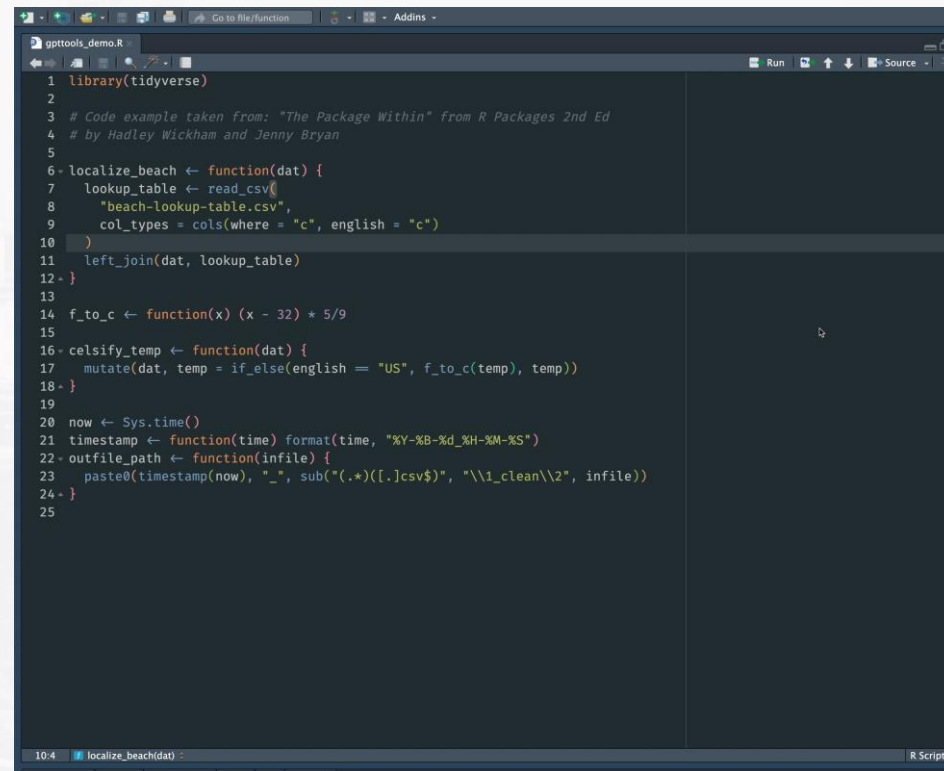


```
1 library(tidyverse)
2
3 # Code example taken from: "The Package Within" from R Packages 2nd Ed
4 # by Hadley Wickham and Jenny Bryan
5
6 infile <- "swim.csv"
7 (dat <- read.csv(infile))
8
9 dat$english[dat$where == "beach"] <- "US"
10 dat$english[dat$where == "coast"] <- "US"
11 dat$english[dat$where == "seashore"] <- "UK"
12 dat$english[dat$where == "seaside"] <- "UK"
13
14 dat$temp[dat$english == "US"] <- (dat$temp[dat$english == "US"] - 32) * 5/9
15 dat
16
17 now <- Sys.time()
18 timestamp <- format(now, "%Y-%B-%d_%H-%M-%S")
19 (outfile <- paste0(timestamp, "_", sub("(.*)([.]csv$)", "\\1_clean\\2", infile)))
20
```

<https://jameshwade.github.io/gpttools/>

# Community News (Powered by [www.rweekly.org](http://www.rweekly.org))

Suggest a Unit Test for a Function

A screenshot of an RStudio IDE window. The title bar reads 'gpttools\_demo.R'. The editor pane contains R code with line numbers 1 through 25. The code defines a function 'localize\_beach' that takes 'dat' as input, reads a CSV file 'beach-lookup-table.csv', and performs a left join. It also includes utility functions for temperature conversion and file path generation. The status bar at the bottom shows '10:4' and 'localize\_beach(dat)'.

```
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```

<https://jameshwade.github.io/gpttools/>

# Community News (Powered by [www.rweekly.org](http://www.rweekly.org))

## Quotes of the Week

PSA: If you're an R user and rely on MRAN for reproducibility, you should know MRAN is getting shutdown. You might want to start migrating to the [@posit\\_pbc](https://posit.co/) package manager which also allows you to use packages as of a specific date like MRAN<https://t.co/QjNGGNuRx5> ( [twitter.com](https://twitter.com) )

— Bruno Rodrigues ([@brodriguesco](https://twitter.com/brodriguesco)) [January 7, 2023](https://twitter.com/brodriguesco/status/1614111111) ( [twitter.com](https://twitter.com) )

## Microsoft R Application Network retirement

By  Umachandar Jayachandran (UC)

Published Jan 03 2023 12:00 AM

👁 26.3K Views

 Listen

In June 2021, we [announced](#) that Microsoft Machine Learning Server & Microsoft R Open will be retired on July 1, 2022. In continuation with the retirement process, the [Microsoft R Application Network](#) (MRAN) website and CRAN Time Machine will be retired on July 1, 2023.

### How does this change affect me?

- After January 31, 2023, we will no longer maintain the [CRAN Time Machine snapshots](#). Existing snapshots will be available until June 30, 2023.
- Microsoft R Application Network website and CRAN Time Machine will be shut down on July 1, 2023.
- The website <https://rpackages.microsoft.com> will also be shut down on July 1, 2023.
- For R users, the “checkpoint” package will only serve CRAN snapshots up to January 31, 2023 and will cease to function entirely after June 30, 2023. R scripts using a CRAN repository located at <https://cran.microsoft.com> will return an error after July 1, 2023.
- Microsoft will no longer provide customer support services for the Microsoft R Application Network and CRAN Time Machine after June 30, 2023.

### Recommended Action:

You should plan to migrate from the use of Microsoft R Application Network website and CRAN Time Machine to avoid any interruptions. The CRAN Time Machine functionality can be replaced by using the miniCRAN R package as [documented](#). The use of “[Explore Packages](#)” functionality from MRAN can be replaced by [CRAN Task Views](#).

<https://techcommunity.microsoft.com/t5/azure-sql-blog/microsoft-r-application-network-retirement/ba-p/3707161>



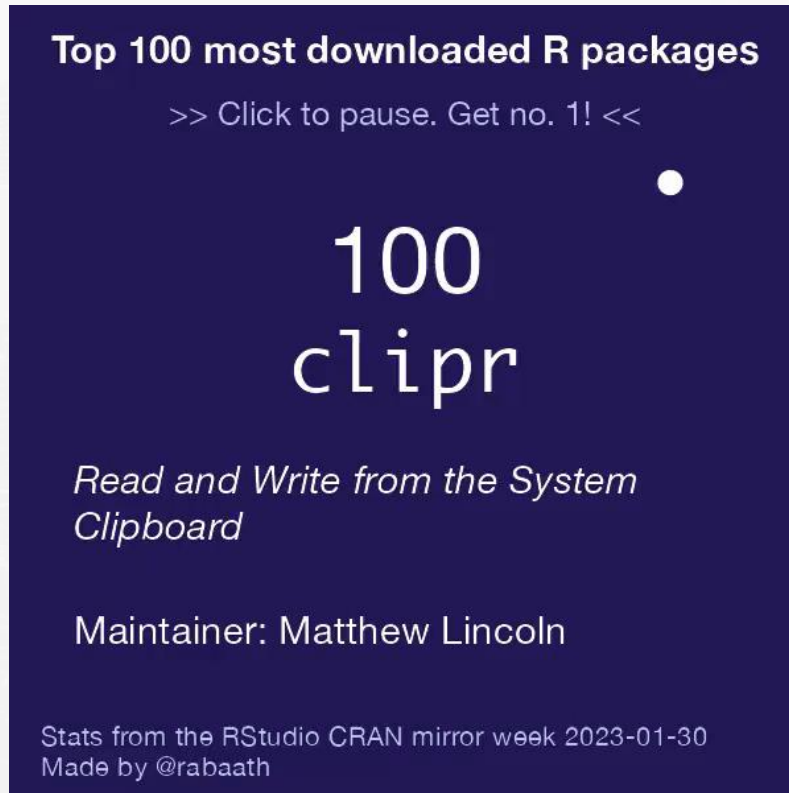
# Community News (Powered by [www.rweekly.org](http://www.rweekly.org))

MRAN is getting shutdown - what else is there for reproducibility with R,  
or why reproducibility is on a continuum?

Need	Solution
I want to start a project and make it reproducible.	{renv} and Docker
There's an old script laying around that I want to run.	{groundhog} and Docker
I want to work inside an environment that enables me to run code in a reproducible way.	Docker and the Posit CRAN mirror.

[https://www.brodrigues.co/blog/2023-01-12-repro\\_r/](https://www.brodrigues.co/blog/2023-01-12-repro_r/)

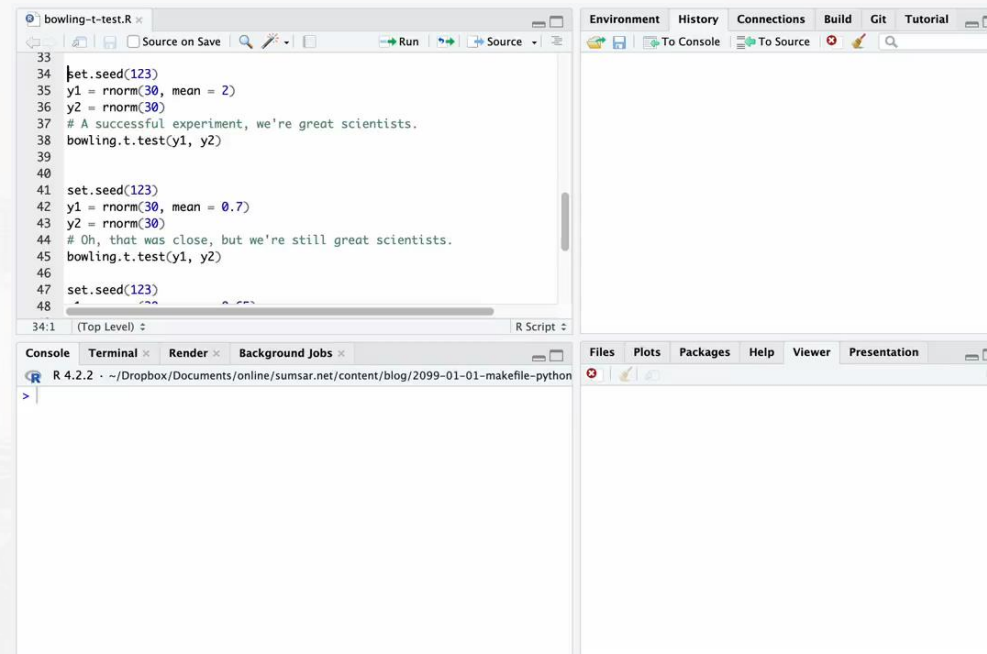
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<https://www.sumsar.net/blog/top-100-r-packages-gif/>

# Community News

Visualising p-value in a t-test



The screenshot shows the RStudio IDE with a script editor on the left and several panels on the right. The script editor contains the following R code:

```
33  
34 set.seed(123)  
35 y1 = rnorm(30, mean = 2)  
36 y2 = rnorm(30)  
37 # A successful experiment, we're great scientists.  
38 bowling.t.test(y1, y2)  
39  
40  
41 set.seed(123)  
42 y1 = rnorm(30, mean = 0.7)  
43 y2 = rnorm(30)  
44 # Oh, that was close, but we're still great scientists.  
45 bowling.t.test(y1, y2)  
46  
47 set.seed(123)  
48
```

The right-hand side of the interface includes the Environment, History, Connections, Build, Git, and Tutorial panels at the top, and the Files, Plots, Packages, Help, Viewer, and Presentation panels at the bottom. The Console panel at the bottom left is currently empty.

<https://www.twitter.com/rabaath/status/1627694325013282816>

# Events

- 15-17 March 2023
  - ShinyConf 2023
  - <https://shinyconf.appsilon.com>
- 22 April 2023
  - SatRdays London 2023
  - <https://satrday-london-2023.jumpingrivers.com>



# Automating workflows using public domain EconData

with

**Daan Steenkamp**

Co-founder Codera Analytics



## Johannesburg R User Group Meetup



14<sup>th</sup> March 2023, 16h30 to 18h00 (GMT+2)



Online and In-person (Microsoft, Bryanston)



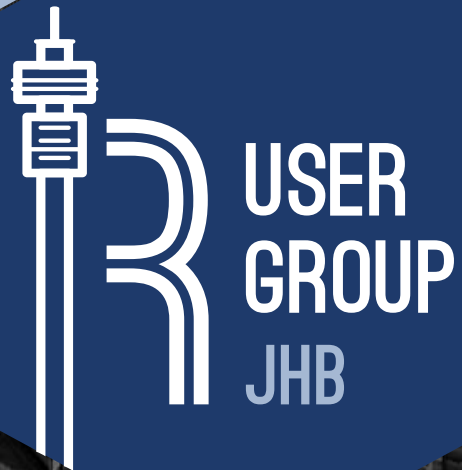
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# Swipe Right on R Data Analysis: Dating behaviour in Johannesburg

with

**Handre Williams**



The background is a faded, high-angle photograph of a city skyline. In the foreground, a large bridge with multiple tall, white, A-frame pylons spans across the frame. The city skyline is composed of numerous skyscrapers and buildings of varying heights, some with visible windows. The overall tone is light and desaturated, with the text 'FIN' centered in the middle of the image.

FIN