



## BUILDING DASHBOARDS WITH SHINYDASHBOARD

# Introduction to the NASA fireball data set

Lucy D'Agostino McGowan

Postdoctoral fellow in Biostatistics at Johns Hopkins University

# Data background



<https://cneos.jpl.nasa.gov/fireballs/intro.html>

# Variables

- date <date>
- energy <numeric>
- impact\_e <numeric>
- lat <numeric>
- lat\_dir <character>
- lon <numeric>
- lon\_dir <character>
- alt <numeric>
- vel <numeric>



## BUILDING DASHBOARDS WITH SHINYDASHBOARD

**Let's practice!**



## BUILDING DASHBOARDS WITH SHINYDASHBOARD

# Dynamic refresher

Lucy D'Agostino McGowan

Postdoctoral fellow in Biostatistics at Johns Hopkins University

# Dynamic refresher

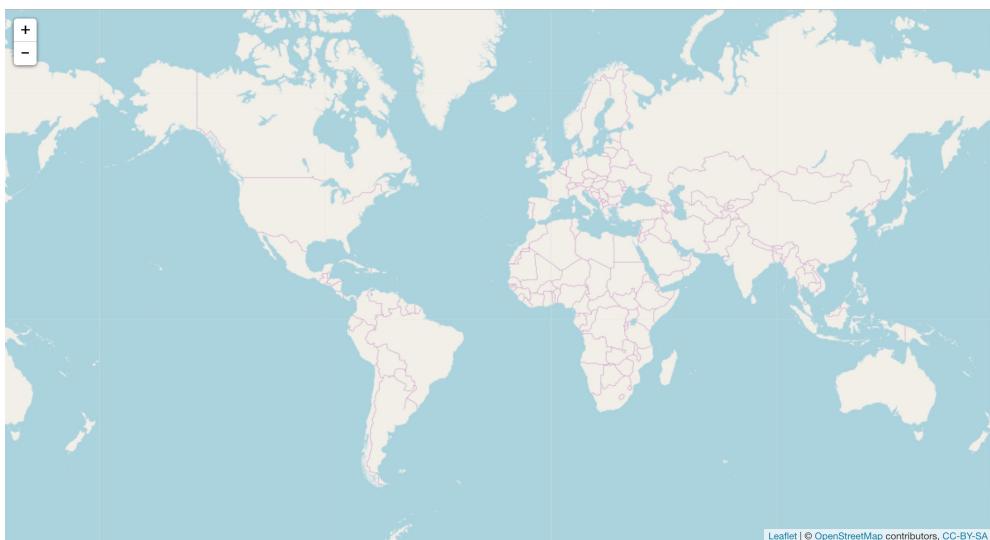
- `render*`()
- `*Output()`

# Leaflet

- renderLeaflet()
- leafletOutput()
- <http://www.htmlwidgets.org>

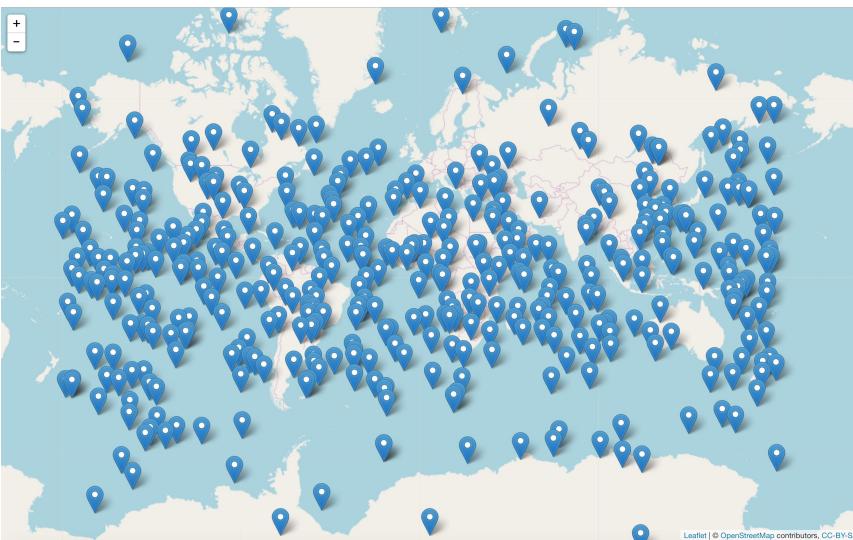
# Leaflet

```
library("leaflet")
leaflet() %>%
  addTiles()
```



# Leaflet

```
library("leaflet")
leaflet() %>%
  addTiles() %>%
  addMarkers(
    lng = nasa_fireball$lon,
    lat = nasa_fireball$lat
  )
```





## BUILDING DASHBOARDS WITH SHINYDASHBOARD

**Now you do it!**



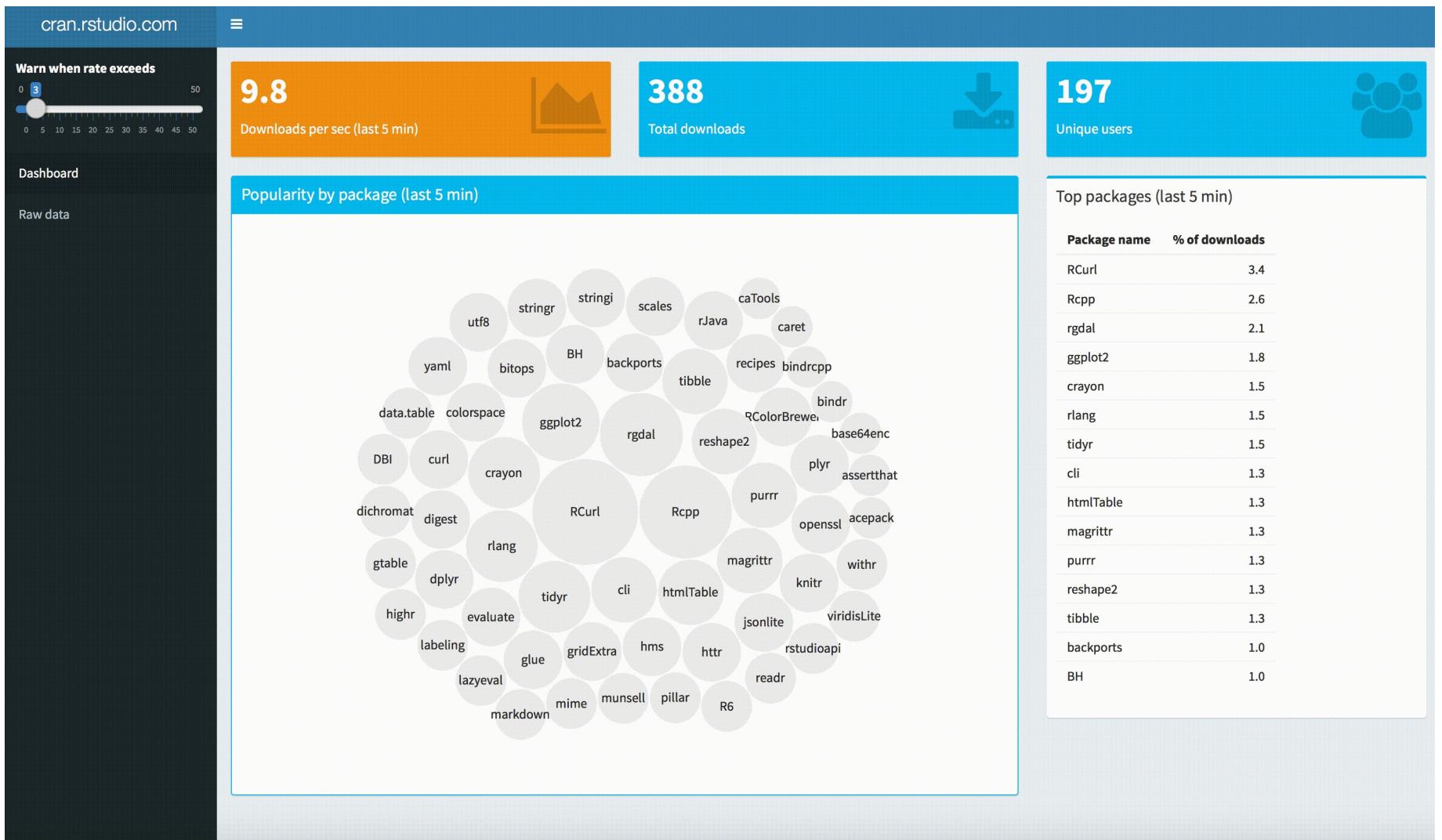
## BUILDING DASHBOARDS WITH SHINYDASHBOARD

# Thank you!

Lucy D'Agostino McGowan

Postdoctoral fellow in Biostatistics at Johns Hopkins University

# Cool shinydashboards



<https://rstudio.github.io/shinydashboard/examples.html>

# More resources

- **Winston Chang and Joe Cheng** *Building Dashboards with Shiny*  
*Tutorial* <https://www.rstudio.com/resources/videos/building-dashboards-with-shiny-tutorial/>
- **Winston Chang** *Dynamic Dashboards with Shiny*  
<https://www.rstudio.com/resources/webinars/dynamic-dashboards-with-shiny/>
- The Docs!



## BUILDING DASHBOARDS WITH SHINYDASHBOARD

# Thank you!