```
library(dplyr)

rladies_global %>%
  filter(city == 'London')
```



# | 10 Steps to Becoming a | Tidyverse Contributor

**Nic Crane** 





# Hello!

Nic Crane

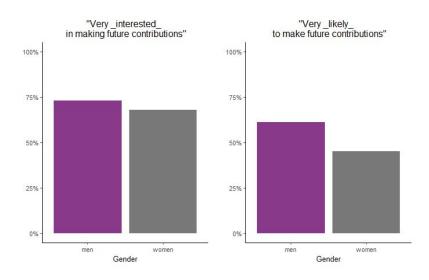
@nic\_crane 🔰





# The gender imbalance in open source remains profound...Open source contributors don't yet reflect its broad audience of users

-GitHub Survey 2017



### **Culture is Changing** in Open Source







### How Does R Compare?



2012:

RLadies Founded 2015:

R Forwards set up 2017: "The R community is one of R's best

features"

2015:

R Consortium established

2016: "The R community is awesome (and fast)"

2017: RStudio Community Forums goes live





#### **GITHUB SURVEY 2017**

- "Half of contributors say that their open source work was somewhat or very important in getting their current role."
- "Open source work helps people build their professional reputation."
- "Improving contributor representation can help create a more representative tech sector overall."





#### **MY PERSONAL REASONS**

- Improve code knowledge
- Interact with the community
- Overcome Lessen imposter syndrome





When I started my transition into data science, I said yes to pretty much every opportunity that came my way, even if it felt slightly beyond my skill set or experience level...I said yes to many of these things when it felt like I wasn't sure if I was ready.



—Julia Silge Interview with And Comfort (October 2018)





Not always easy for beginners. Helps to have a team that will onboard. Give beginner level work. Mentorship. Pick projects that are welcoming.



- Gabriela de Queiroz [summarised tweet]
Grace Hopper Celebration of Women in Computing (2018)

### **Step 1 Decide How to Contribute**



- Identifying issues
- Documentation
- Helping people out on Twitter and forums
- Blogging
- Code

### Step 2 Learn!



- R functions
- git (clone, commit, push)
- Building R packages (basics)
- GitHub making a pull request

### Step 3 Find an Issue



beginner-friendly

help wanted

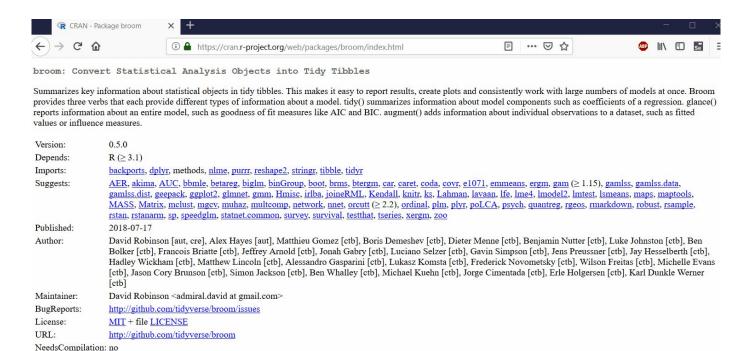
good first issue

### **Step 3 Find an Issue**

Materials:

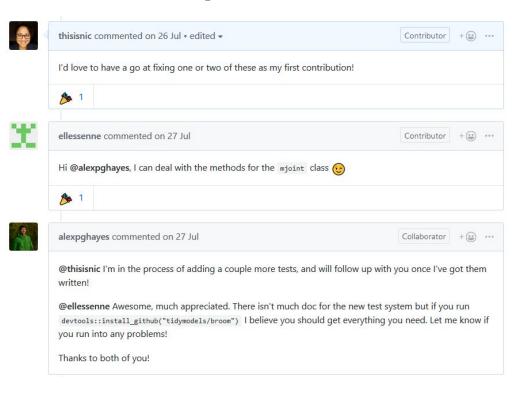
README NEWS





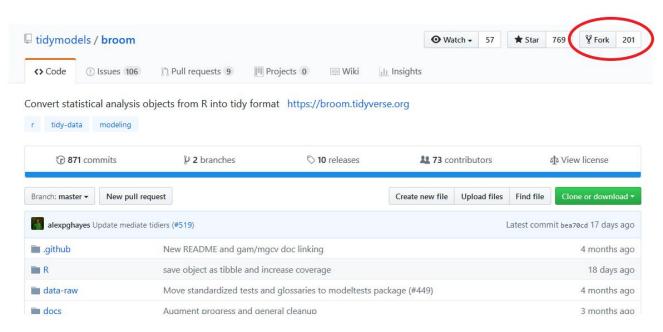
## Step 4 Ask if You Can Help





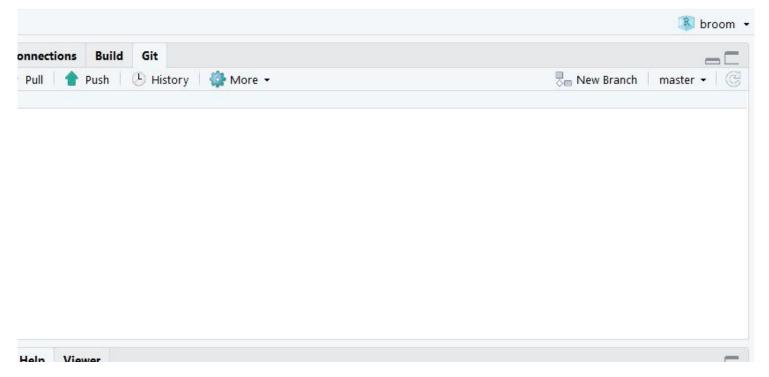




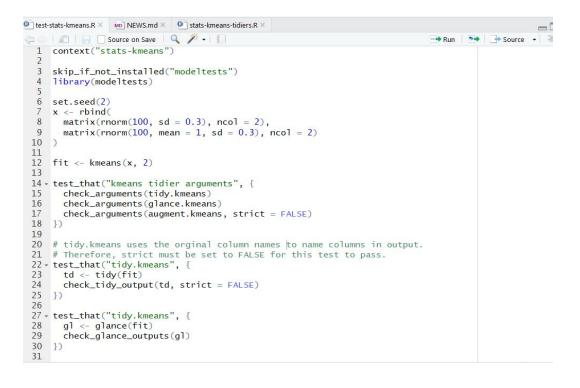


### R

### Open in RStudio & Make a Branch



#### **Familiarise Yourself with the Code**





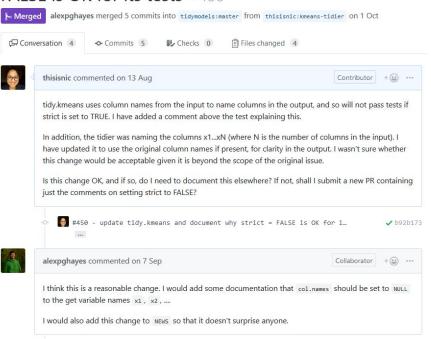




```
8 R/stats-kmeans-tidiers.R
      @@ -2,7 +2,7 @@
      #' @template title desc tidy
                                                                                                                        #' @template title desc tidy
      #' @param x A `kmeans` object created by [stats::kmeans()].
                                                                                                                        #' @param x A `kmeans` object created by [stats::kmeans()].
 5 - #' @param col.names Dimension names. Defaults to `x1, x2, ...`
                                                                                                                  + #' @param col.names Dimension names. Defaults to the names of the variables in x. Set to NULL to get
                                                                                                                      names `x1, x2, ...`.
       #' @template param unused dots
                                                                                                                        #' @template param unused dots
      #' @evalRd return_tidy("size", "withinss", "cluster")
                                                                                                                        #' @evalRd return_tidy("size", "withinss", "cluster")
     @@ -13,7 +13,11 @@
      #' @export
                                                                                                                        #' @export
      #' @seealso [tidy()], [stats::kmeans()]
                                                                                                                        #' @seealso [tidy()], [stats::kmeans()]
      #' @family kmeans tidiers
                                                                                                                        #' @family kmeans tidiers
- tidy.kmeans <- function(x, col.names = pasteθ("x", 1:ncol(x$centers)), ...) {</pre>
                                                                                                                      + tidy.kmeans <- function(x, col.names = colnames(x$centers), ...) {
                                                                                                                 17 +
                                                                                                                         if(is.null(col.names)){
                                                                                                                 19 +
                                                                                                                           col.names <- paste0("x", 1:ncol(x$centers))</pre>
                                                                                                                 20 + }
         ret <- as.data.frame(x$centers)
                                                                                                                          ret <- as.data.frame(x$centers)
         colnames(ret) <- col.names
                                                                                                                          colnames(ret) <- col.names
         ret$size <- x$size
                                                                                                                          ret$size <- x$size
```

### **Submit PR and Wait**

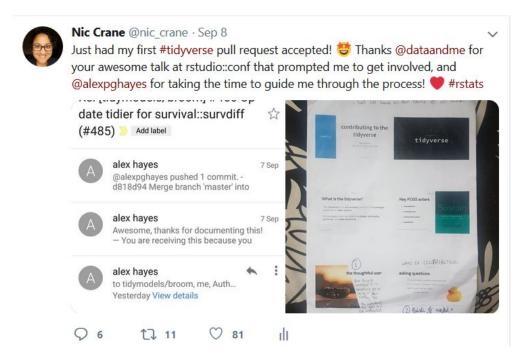
#450 - update tidy.kmeans and document why strict = FALSE is OK for its tests #486







### **Celebrate! Then Encourage Others to Get Involved and Share Your Experience**



```
library(dplyr)

rladies_global %>%
  filter(city == 'London')
```





Nic Crane @nic\_crane >



#### Resources

Talk by Mara Averick on contributing:

https://www.rstudio.com/resources/videos/contributing-to-tidyverse-packages/

rOpenSci contributing guide:

https://ropensci.github.io/dev\_guide/contributingguide.html

Repo walking through making a pull request:

https://github.com/firstcontributions/first-contributions

Guide to contributing code to the tidyverse:

https://www.tidyverse.org/articles/2017/08/contributing/