Geographic Information Systems

Map with ggplot2 and bubbles
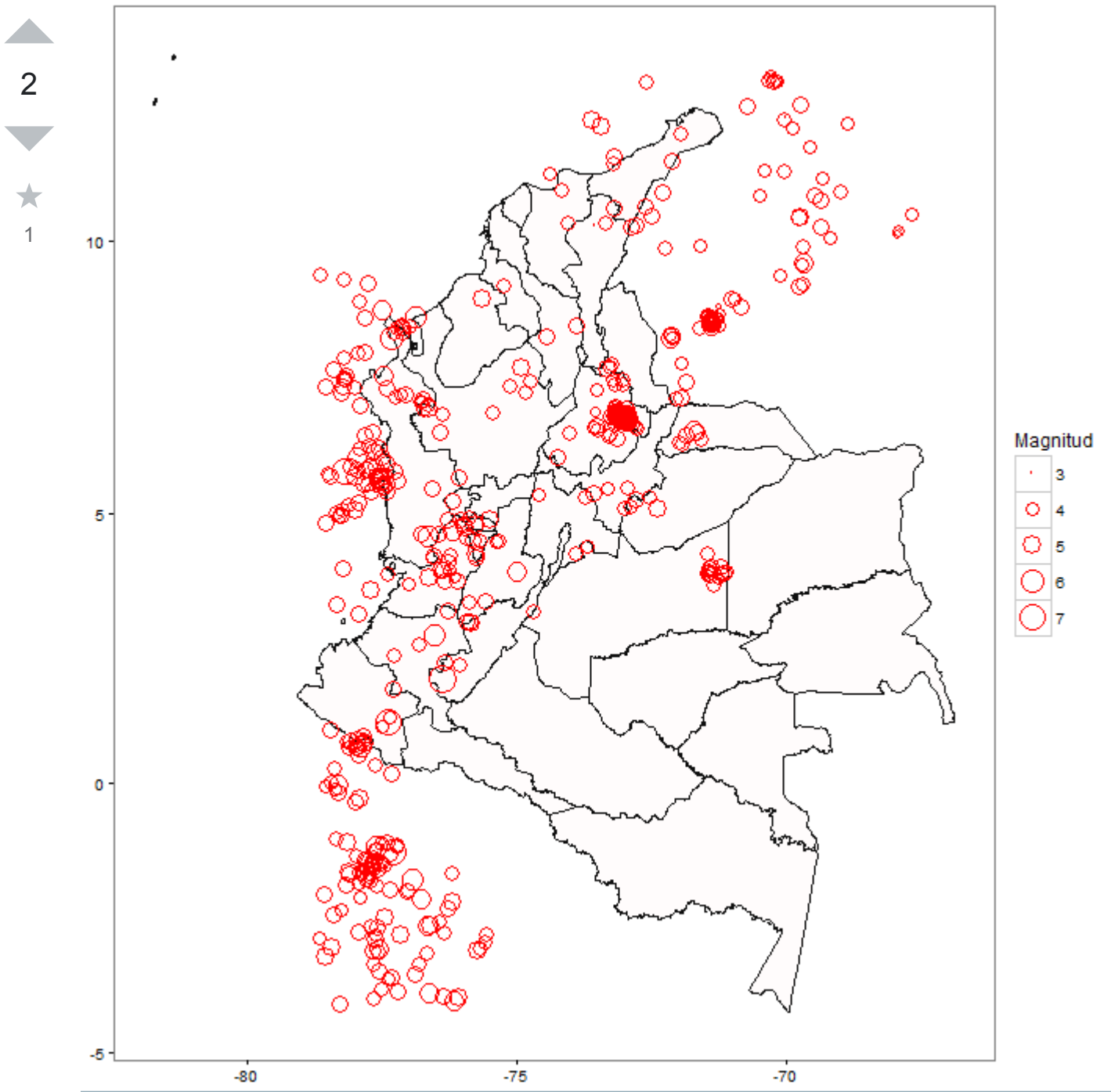
I've tried to plot a map of magnitude earthquakes in Colombia with `ggplot` . After many efforts, I got

> "Error: Discrete value supplied to continuous scale".

I've used many solutions in blogs but it does not work.

This is my first map and the script

```
santos <- readOGR("Departamentos_WGS84.shp","Departamentos_WGS84")
map <- fortify(santos)
datos=read.table("coord.txt",header=T,dec=",",sep=";")
myData = data.frame(datos)

gg <- ggplot()
gg <- gg + geom_map(data=map, map=map,
                    aes(x=long, y=lat, map_id=id, group=group),
                    fill="#fffcfc", color="#0e0e0e", size=0.15) +
                    geom_point(data=myData,
                    aes(x=long, y=lat, size=Magnitud), color = "red",shape = 21) +
                    scale_size(range = c(0, 8)) +
                    coord_map() +
                    theme_bw() +
                    labs(x=NULL, y=NULL) +
                    theme(panel.grid=element_blank()) +
                    theme(panel.border=element_rect())
                    gg
```

| r | maps | ggplot2 |

edited Jan 14 '16 at 7:06
Michal Zimmermann
3,426 17 31

asked Jan 14 '16 at 4:49
Camilo Andres
60 1 6

I do not understand your question. My data are coordinates (longitude and latitutde) associated with a magnitude. I hope this answers your question. – Camilo Andres Jan 14 '16 at 16:23 ✎

what is the output of this command `class(myData$Magnitud)` ? `factor` or `numeric` (this could be the source of your error) – rcs Jan 14 '16 at 19:30

I guess `myData$long` and/or `myData$lat` are character values ("discrete"), because the `read.table` does not work as expected. And that does not match with `map$long`, which is numeric. Maybe you can add the output of `str(map)` and `str(myData)` . – lukeA Jan 14 '16 at 19:32

Excuse me! With class(myData$Magnitud), I got "factor". – Camilo Andres Jan 14 '16 at 20:12

1   this should be `numeric` – rcs Jan 14 '16 at 20:38

1 Answer

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I solved this problem with these instructions:

```
myData$longitude = as.numeric(as.character(myData$longitude))

myData$Magnitude = as.numeric(as.character(myData$Magnitude))

myData$latitude = as.numeric(as.character(myData$latitude))
```

edited Jan 20 '16 at 2:20
Aaron ♦
38.6k 21 112 263

answered Jan 20 '16 at 1:53
Camilo Andres
60 1 6