CreatingMapsR

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```
library(viridis)
library(ggrepel)
library(geosphere)
library(maps)
library(ggmap)
library(rworldmap)
library(dplyr)
library(tidyr)
library(knitr)
library(ggplot2)
library(rmarkdown)
library(shiny)
library(lubridate)
library(dygraphs)
# setting working directory
setwd("F:/ders/3rd_class/IE421 Data Science for Engineers/working directory")
```

```
map <- get_stamenmap(bbox = c(left = 22 , bottom = 33 , right = 50 , top = 44) , zoom = 5 , m
aptype = "watercolor")

ggmap(map) + theme_void()</pre>
```



```
map2 <- get_stamenmap(bbox = c(bottom = 33 , left = 22 , right = 50 , top = 44), zoom = 6 ,
maptype = "toner-lite")

ggmap(map2) + theme_void() + theme(
  panel.border = element_rect(colour = "grey" , fill = NA , size = 2)
)</pre>
```



```
map3 <- get_stamenmap(bbox = c(bottom = 40.8 , left = 28 , right = 30 , top = 41.4) , zoom =
10 , maptype = "terrain")

ggmap(map3) + theme_void()</pre>
```



World <- map_data("world")
dim(World)</pre>

[1] 99338

kable(head(World))

long	lat	group	order	region	subregion
-69.89912	12.45200	1	1	Aruba	NA
-69.89571	12.42300	1	2	Aruba	NA
-69.94219	12.43853	1	3	Aruba	NA
-70.00415	12.50049	1	4	Aruba	NA
-70.06612	12.54697	1	5	Aruba	NA
-70.05088	12.59707	1	6	Aruba	NA

```
ggplot() +
  geom_polygon(data = World , aes(x = long , y = lat , group = group) , fill = "grey" , alpha
= 0.3) +
  coord_map()
```

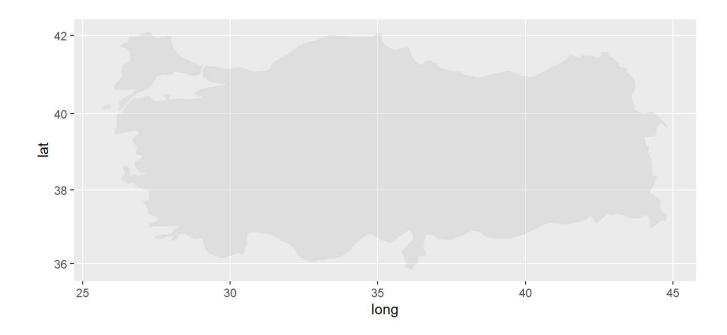


long

```
Turkey <- map_data("world") %>% filter(region == "Turkey")
dim(Turkey)
```

```
## [1] 562 6
```

```
ggplot() +
  geom_polygon(data = Turkey , aes(x = long , y = lat , group = group) , fill = "grey" , alph
a = 0.3) +
  coord_map()
```



```
TRcities <- world.cities %>% filter(country.etc == "Turkey")
```



