

# MAP

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```
library(tidyverse)

## -- Attaching packages -----
## v ggplot2 3.3.2      v purrr  0.3.4
## v tibble  3.0.3      v dplyr  1.0.2
## v tidyr   1.1.2      v stringr 1.4.0
## v readr   1.4.0      v forcats 0.5.0

## -- Conflicts -----
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()

library(sf)

## Linking to GEOS 3.7.2, GDAL 2.4.2, PROJ 5.2.0

library(tmap)
data("World")
Deaths <- read_csv("/Users/yangruiqin/Desktop/2864/time_series_covid19_deaths_global.csv")

##
## -- Column specification -----
## cols(
##   .default = col_double(),
##   `Province/State` = col_character(),
##   `Country/Region` = col_character()
## )
## i Use `spec()` for the full column specifications.

Deaths_data <- Deaths %>%
  group_by(`Country/Region`) %>%
  summarise(Deaths = sum(`11/22/20`, na.rm = TRUE)) %>%
  rename(Region = `Country/Region`)

## `summarise()` ungrouping output (override with `.groups` argument)

Comb <- Deaths_data %>%
  mutate(Region = replace(Region, Region == "US", "United States")) %>%
  group_by(Region) %>%
  summarise(Deaths = sum(Deaths, na.rm = TRUE)) %>%
  ungroup()

## `summarise()` ungrouping output (override with `.groups` argument)

cov_world <- left_join(World, Comb, by = c("name" = "Region")) %>%
  replace_na(list(Deaths=0))
```

```
mybreaks<- c(0,1, 10,100, 500, 1000,10000,50000,100000,500000,1000000)
tm_shape(cov_world) +
  tm_polygons(col="Deaths", breaks=mybreaks, title="Death cases", palette="Reds") +
  tm_legend(position=c("left", "centre"))
```

