

```

1 library(rgdal)
2 library(rgeos)
3 library(ggplot2)
4 library(maptools)
5 library(rworldmap)
6 library(httr)
7 library(dplyr)
8
9 url <- "https://gist.githubusercontent.com/hrbrmstr/91ea5cc9474286c72838/raw/f3fde312c9b816dff3994f39f2bcda03209eff8f/
    continents.json"
10 stop_for_status(GET(url, write_disk("continents.json", overwrite=TRUE)))
11 continents <- readOGR("continents.json", "OGRGeoJSON")
12 continents_map <- fortify(continents, region="CONTINENT")
13
14 ##### For Specific Countries
15 w <- getMap()
16 ## we need to id to join back
17 w$id_1 <- row.names(w)
18 world <- fortify(w)
19
20 continents_map <- world %>% inner_join(as.data.frame(w)[, c("ADMIN", "id_1")], c("id" = "id_1"))
21
22 #ggplot(world) + aes(x = long, y = lat, group = group, fill = ADMIN) + geom_polygon() + guides(fill = FALSE)
23 #####
24
25
26 data <- read.csv("~/Desktop/incidence.csv", header=TRUE, stringsAsFactors=FALSE)
27 colnames(data) = c("id", "Prevalence")
28 data[,1] = trimws(data[,1])
29
30 data = left_join(continents_map, data)
31
32 gg <- ggplot()
33 gg <- gg + geom_map(data=data,
34                   map=data,
35                   aes(x=long, y=lat, map_id=id))
36
37 gg <- gg + geom_map(data=data,
38                   map=continents_map,
39                   aes(map_id=id, fill=Prevalence))
40
41 gg <- gg + scale_fill_gradientn(
42   colours = ( brewer.pal( 7, "YlOrRd" ) )
43 )
44 gg <- gg + coord_equal()
45 gg <- gg + theme_bw()
46 gg <- gg + labs(x=NULL, y=NULL)
47 gg <- gg + theme(panel.border=element_blank())
48 gg <- gg + theme(panel.grid=element_blank())
49 gg

```