Ziggy R script

R version 3.5.0 (2018-04-23) Platform: x86_64-apple-darwin15.6.0 (64-bit) Running under: OS X El Capitan 10.11.6 Matrix products: default BLAS: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRblas.0.dylib LAPACK: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRlapack.dylib locale: [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/c/en_US.UTF-8/en_US.UTF-8 attached base packages: graphics grDevices utils [1] stats datasets methods base loaded via a namespace (and not attached): [1] compiler_3.5.0 tools_3.5.0 htmltools_0.3.6 pillar_1.3.1 rstudioapi_0.7 tibble_2.1.1 rmarkdown_1.12 knitr_1.22 [7] yaml_2.2.0 crayon_1.3.4 Rcpp_1.0.1 xfun_0.6 [13] digest_0.6.18 pkgconfig_2.0.2 rlang_0.3.4 evaluate_0.14 Packages used [[1]]

"RColorBrewer" "dplyr"

"rgdal"

"grid"

"mapdata"

"scales"

"devtools"

"reshape2"

"ggmap"

"ggsn"

"ggplot2"

"RgoogleMaps"

"leaflet"

"mapview"

[1] "evaluate"

[13] "jsonlite"

[19] "mapproj"

[7] "sp"

"animation"

"maptools"

"ggthemes"

"readr"

Script

```
# read in data -----
countries <- c("Colombia", "Ecuador", "Peru", "Panama")</pre>
# read in kml data from my google maps (drive route)
zp <- sf::st_read("ziggy.kml")</pre>
secondary_paths <- sf::st_read("secondary_paths.kml")</pre>
# get city coords
city_df <- c()</pre>
for(ll in 2:length(zp$Name)){
  city <- unlist(subset(zp,Name==as.character(zp$Name[11]))$geometry)</pre>
  city <- city[2:1] # remove stupid zero</pre>
 city_df <- rbind(city_df,city)</pre>
 city_df <- city_df %>% data.frame()
colnames(city_df) <- c("lat","lon")</pre>
# high res map
d <- map_data("worldHires", countries)</pre>
# get latlon (uses api key)
location <- c("Medellin", "Bogotá")</pre>
city_secondary <- geocode(location,
                          output = "latlon",
                          source="google"
city_secondary <- city_secondary %>% data.frame()
# plot -----
dput(par(no.readonly=TRUE)) # reset graphical params
par()
# colour palettes
bg <- "#f2f0ee"
fg <- "#10163c"
path_col <- "#f4d29f"</pre>
border_col <- "c7d2f5"
city_size <- 5
path_size <- 0.7
# plot
ggplot() + # initiate plot dev
  geom_polygon(data=d,aes(x=long, y=lat, group = group),
               fill = fg, col=border_col,size=0.1) + # add map polygon
  geom_sf(data=zp,color=path_col,size=path_size) + # add ziggy path
  geom_point(data=city_df,aes(lon,lat),
             col=path_col,size=city_size) + # add cities
  geom_point(data=city_secondary,aes(lon,lat),shape=21,
             fill=path_col,color=path_col,size=city_size) + # add secondary cities
  coord_sf(xlim=c(-75,-81),ylim=c(-2,8)) + # zoom window
  theme_nothing() + # set minimal theme
  theme( # panels
    panel.grid.major = element_line(colour = bg),
    panel.ontop = F, # to toggle panel grid visibility
    plot.background = element_rect(fill = bg))
# save to dir
ggsave(paste0("ziggy_",bg,"_",fg,"_",path_col,".pdf")
       , width = 9, height = 15, dpi = "retina", limitsize = F)
```