

SIGACTS Western Yemen

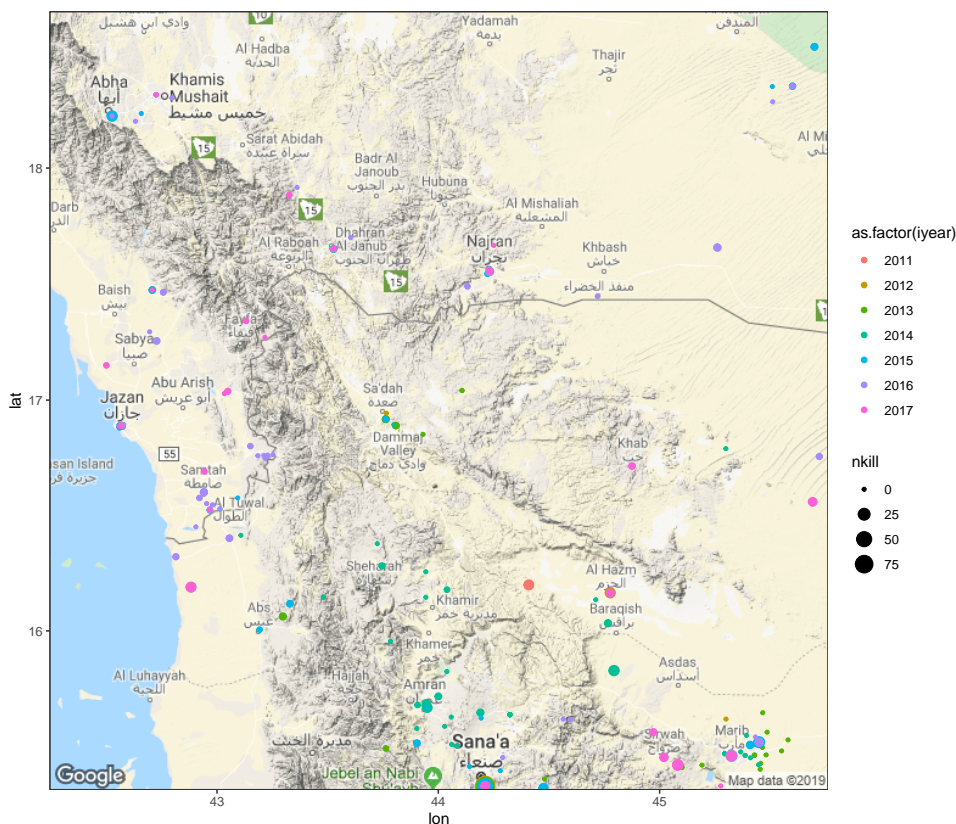
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maptools: a set of tools for reading and handling spatial objects. In particular, it will be used to read .shp files, a common format used by geographic information systems software. ggplot2: one of the powerful graphics engines available to R users ggmap: a package for spatial visualization using popular on-line mapping systems, such as GoogleMaps or OpenStreetMap.

```
load(file = "sigacts.rda")
load(file = "wy_map.rda")
load(file = "countries_spdf.rda")
load(file = "countries_sp.rda")
load(file = "WY_8.rda")

# Use base_layer argument to ggmap() and add facet_wrap()
ggmap(WY_8,
  base_layer = ggplot(sigacts %>% filter(attacktype1 == 3), aes(lon, lat))) +
  #geom_polygon(data = countries_spdf_df, aes(x = long, y = lat, group = group, alpha = .1, color = "
  geom_point(aes(color = as.factor(iyear), size = nkill)) #+
```



```
#scale_x_continuous(limits = c(43, 44), expand = c(0, 0)) #+
#scale_y_continuous(limits = c(10, 20), expand = c(0, 0)) +
#facet_wrap(vars(attacktype1_txt))
```

```
library(broom)
countries_spdf_df <- tidy(countries_spdf)

countries_spdf$name <- sapply(slot(countries_spdf, "polygons"), function(x) slot(x, "ID"))

countries_spdf_df <- merge(countries_spdf_df, countries_spdf, by.x = "id", by.y = "name")

ggmap(wy_map) +
  geom_polygon(data = countries_spdf_df, aes(x = long, y = lat, group = group, alpha = .1 ))
```

