

OSM_Results

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```
source("DEPENDENCIES/Functions.R")
```

```
## [1] "raster"  
## [1] "ggplot2"  
## [1] "terrainr"  
## [1] "osmdata"  
## [1] "tidyverse"  
## [1] "ggmap"  
## [1] "rgeoboundaries"
```

Extents

```
palma_extend <- getbb("la palma")  
spain_boundary <- geoboundaries("Spain")
```

OSM data

https://wiki.openstreetmap.org/wiki/Map_features

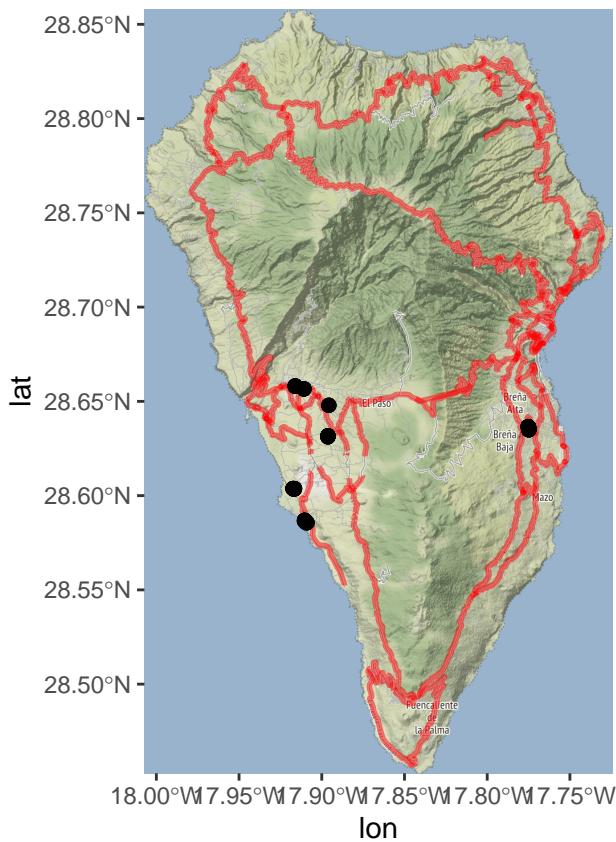
```
palma_roads <- palma_extend %>%  
  opq() %>%  
  add_osm_feature("highway", c("motorway", "primary", "secondary")) %>% # https://wiki.openstreetmap.or  
  osmdata_sf()  
  
palma_accomodation <- palma_extend %>%  
  opq() %>%  
  add_osm_feature("building", "hotel") %>%  
  osmdata_sf()  
  
palma_map <- get_map(palma_extend)
```

Plotting with GGMAP

```

ggmap(palma_map) +
  geom_sf(data = palma_roads$osm_lines,
          inherit.aes = FALSE,
          colour = "red",
          alpha = 0.5,
          size = 1) +
  geom_sf(data = palma_accomodation$osm_points,
          inherit.aes = FALSE,
          colour = "black",
          size = 2)

```



Plotting with GGPLOT

```

ggplot() +
  geom_sf(data= spain_boundary,fill= "#ABABAB", colour = "#9B9B9B" , size=0.1 ) +
  geom_sf(data = palma_roads$osm_lines,
          colour = "red",
          size = 1) +
  geom_sf(data = palma_accomodation$osm_points,
          colour = "black",
          fill = "black",
          alpha = 0.5,

```

```
    size = 2) +  
coord_sf(xlim = c(palma_extend[1,1], palma_extend[1,2]), ylim = c(palma_extend[2,1],palma_extend[2,2])  
theme_void()
```

