ggplot-map-test.R

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```r
# ggplot map test

library(ggplot2) # beautiful graphs

library(sf) # simple (spatial) features
```

```
## Warning: package 'sf' was built under R version 4.1.1
```

```
## Linking to GEOS 3.9.1, GDAL 3.2.1, PROJ 7.2.1
```

```r
library(here) # where am I?
```

```
## Warning: package 'here' was built under R version 4.1.1
```

```
## here() starts at C:/Users/agrogan/Desktop/GitHub/dataviz
```

```r
setwd(here()) # set working directory so pathnames below work correctly

# getting the directory and filename right is important

buildings <- read_sf("./mapping/shapefiles/AA_Building_Footprints/AA_Building_Footprints.shp")

trees <- read_sf("./mapping/shapefiles/a2trees/AA_Trees.shp")

# plot(buildings)

# shp %>% ggplot(aes(fill = NAME)) + geom_sf()

# pdf("./mapping/mymap.pdf") # open PDF device

ggplot(buildings) +
  geom_sf(aes(color = Struc_Type, # color helps to see shapes on map
              fill = Struc_Type)) + # fill helps to see legend
  # geom_sf(data = trees,
  #         size = .1,
  #         color = "darkgreen") +
  scale_color_manual(name = "Structure Type",
                     values = c("red",
                                "orange",
                                "blue",
                                "grey")) +
  scale_fill_manual(name = "Structure Type",
                    values = c("red",
                               "orange",
                               "blue",
```
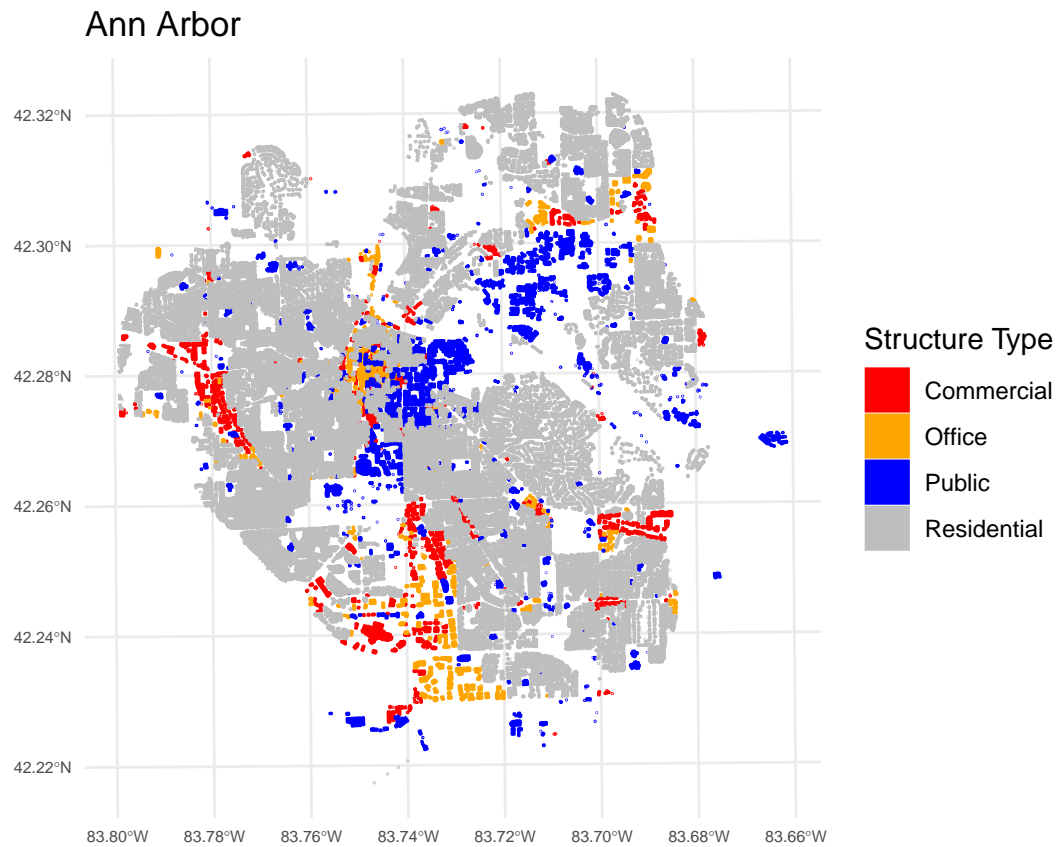
```
                                    "grey")) +
labs(title = "Ann Arbor") +
theme_minimal() +
theme(axis.text = element_text(size = rel(.5)))
```

Ann Arbor


```
# dev.off() # turn off PDF device
```