

Map template

2024-07-11

Plotting entire country:

```
#Toner map
#whole country:
india.0 <- st_read(dsn = file.path(path, "Country", "IND_adm0.shp")) %>% st_transform(crs = 3857)

## Reading layer 'IND_adm0' from data source
##   '\\netid.washington.edu\wfs\EvansEPAR\Project\EPAR\Spatial Data\Raw data\Shape files\India\Country'
##   using driver 'ESRI Shapefile'
## Simple feature collection with 1 feature and 67 fields
## Geometry type: MULTIPOLYGON
## Dimension:      XY
## Bounding box:  xmin: 68.18625 ymin: 6.754256 xmax: 97.41516 ymax: 35.50133
## Geodetic CRS:  WGS 84

plot0 <- ggplot(data=india.0) + geom_sf() +
  theme(
    plot.background = element_rect(fill = "white", color = NA),
    panel.background = element_rect(fill = "white", color = NA),
    axis.text.x = element_blank(), # Remove x-axis text
    axis.text.y = element_blank(), # Remove y-axis text
    axis.ticks = element_blank()) # Remove axis ticks
plot0
```



Plotting states:

```
## Reading layer 'IND_adm1' from data source
##   '\\netid.washington.edu\wfs\EvansEPAR\Project\EPAR\Spatial Data\Raw data\Shape files\India\States\
##   using driver 'ESRI Shapefile'
## Simple feature collection with 37 features and 12 fields
## Geometry type: MULTIPOLYGON
## Dimension:      XY
## Bounding box:  xmin: 68.18625 ymin: 6.754256 xmax: 97.41516 ymax: 35.50133
## Geodetic CRS:  WGS 84
```



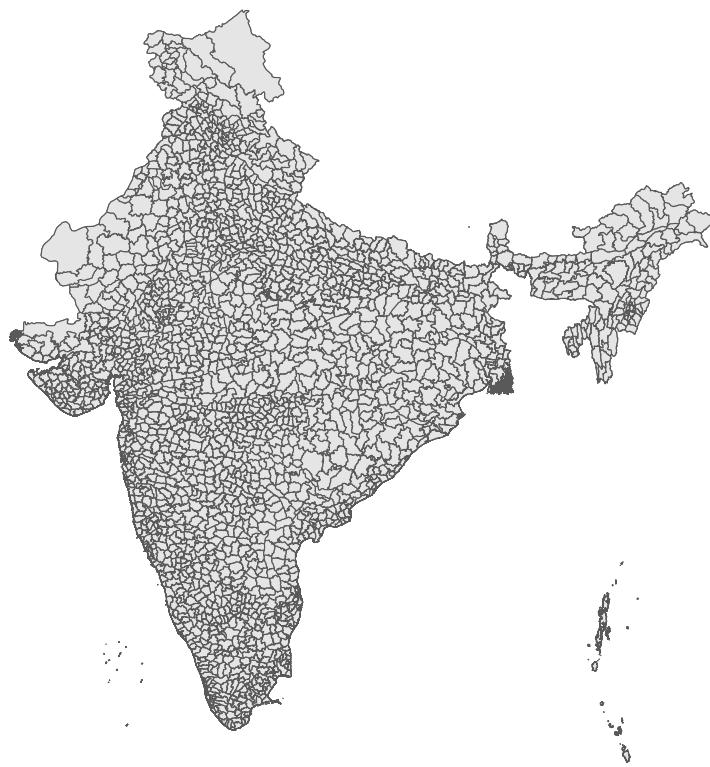
Plotting districts:

```
## Reading layer 'IND_adm2' from data source
##   '\\netid.washington.edu\wfs\EvansEPAR\Project\EPAR\Spatial Data\Raw data\Shape files\India\Districts.shp'
##   using driver 'ESRI Shapefile'
## Simple feature collection with 667 features and 14 fields
## Geometry type: MULTIPOLYGON
## Dimension:     XY
## Bounding box:  xmin: 68.18625 ymin: 6.754256 xmax: 97.41516 ymax: 35.50133
## Geodetic CRS:  WGS 84
```



Plotting sub-districts

```
## Reading layer 'IND_adm3' from data source
##   '\\netid.washington.edu\wfs\EvansEPAR\Project\EPAR\Spatial Data\Raw data\Shape files\India\Sub-dis
##   using driver 'ESRI Shapefile'
## Simple feature collection with 2340 features and 15 fields
## Geometry type: MULTIPOLYGON
## Dimension:     XY
## Bounding box: xmin: 68.18625 ymin: 6.754256 xmax: 97.41516 ymax: 35.50133
## Geodetic CRS:  WGS 84
```



Plotting terrain map

```
## i © Stadia Maps © Stamen Design © OpenMapTiles © OpenStreetMap contributors.
```

