

Santa Barbara County Districts

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Santa Barbara County has a new County Supervisory District map. The supervisory districts are drawn every 10 years following the Each district is assigned a supervisor from the Santa Barbara county board of supervisors. There are five districts and thus five supervisors. The county established the old districts in 2012 and the new districts in 2022. The following project maps Santa Barbara County's new (2022) and old (2012) supervisory districts.

There is an interactive map that compares the old districts to the new districts found [here](#).

The new 2022 supervisory districts are based on public participation. Since the approval of Measure G2018 by Santa Barbara county voters in the November 2018 Statewide election, the County of Santa Barbara Citizens Independent Redistricting Commission was formed to redraw the supervisory districts according to the 2020 census data. Since January 2021, the commission held public meetings to encourage public participation in the map making process until its completion on December 13th 2021.

```
# sbvd2010 <- read_sf("file name")
# sbvd2022 <- read_sf("file name")
head(sbvd2010)
```

Join_Count<dbl>	TARGET_FID<dbl>	District<int>	SqMiles<dbl>	F2010pop<dbl>	Terrain<chr>	Dist_Name<chr>	PRECINCT<chr>	geometry<s_POLYGON>
37	3	3	1041	84730	Land	Third District	0303966	<s_POLYGON>
37	4	4	173	84965	Land	Fourth District	0414502	<s_POLYGON>
43	5	5	683	85297	Land	Fifth District	0535624	<s_POLYGON>
1	6	2	73	84436	Land	Second District	0303053	<s_POLYGON>
6	1	1	582	84456	Land	First District	0101024	<s_POLYGON>
3	2	3	1041	84730	Land	Third District	0101024	<s_POLYGON>

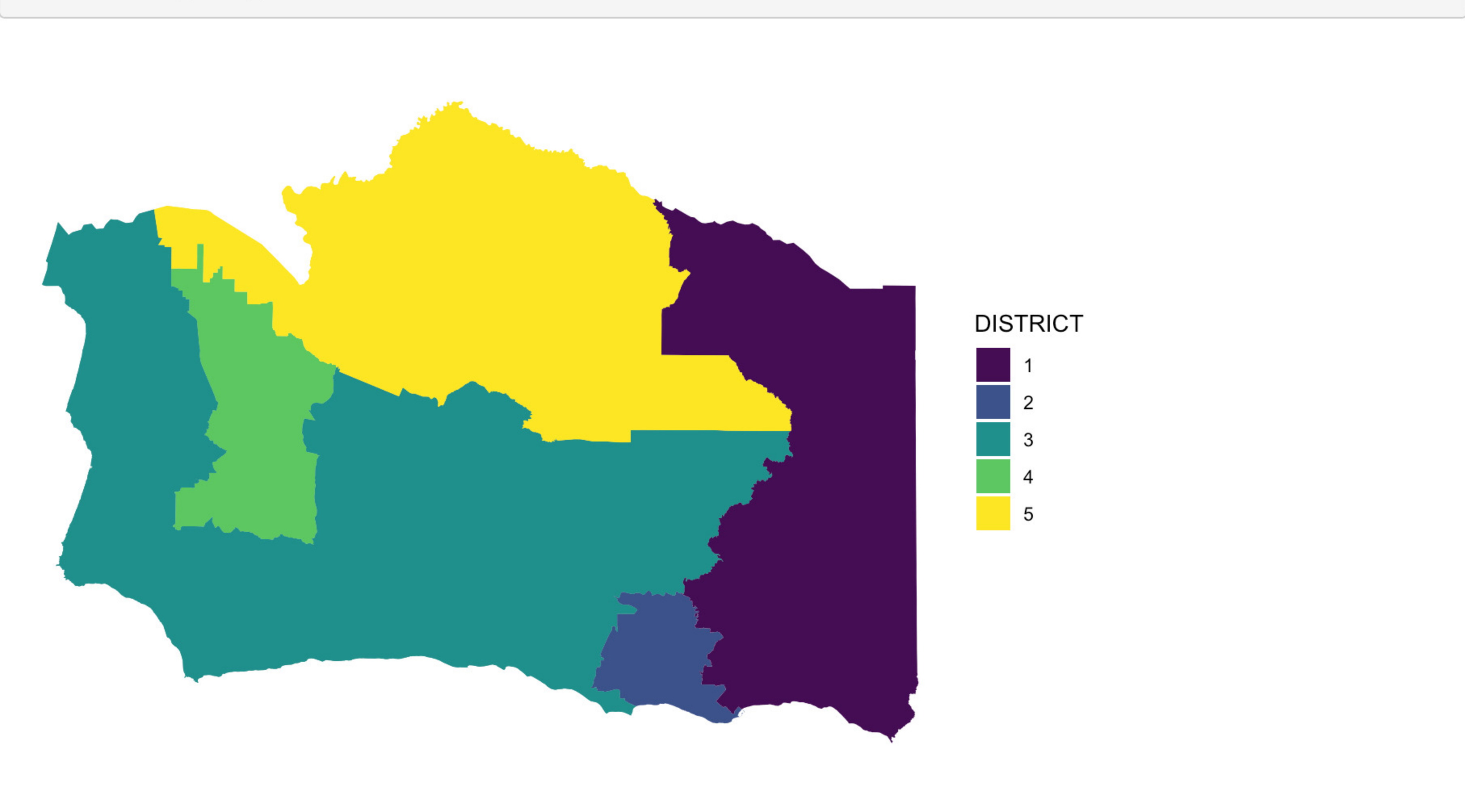
6 rows

head(sbvd2022)

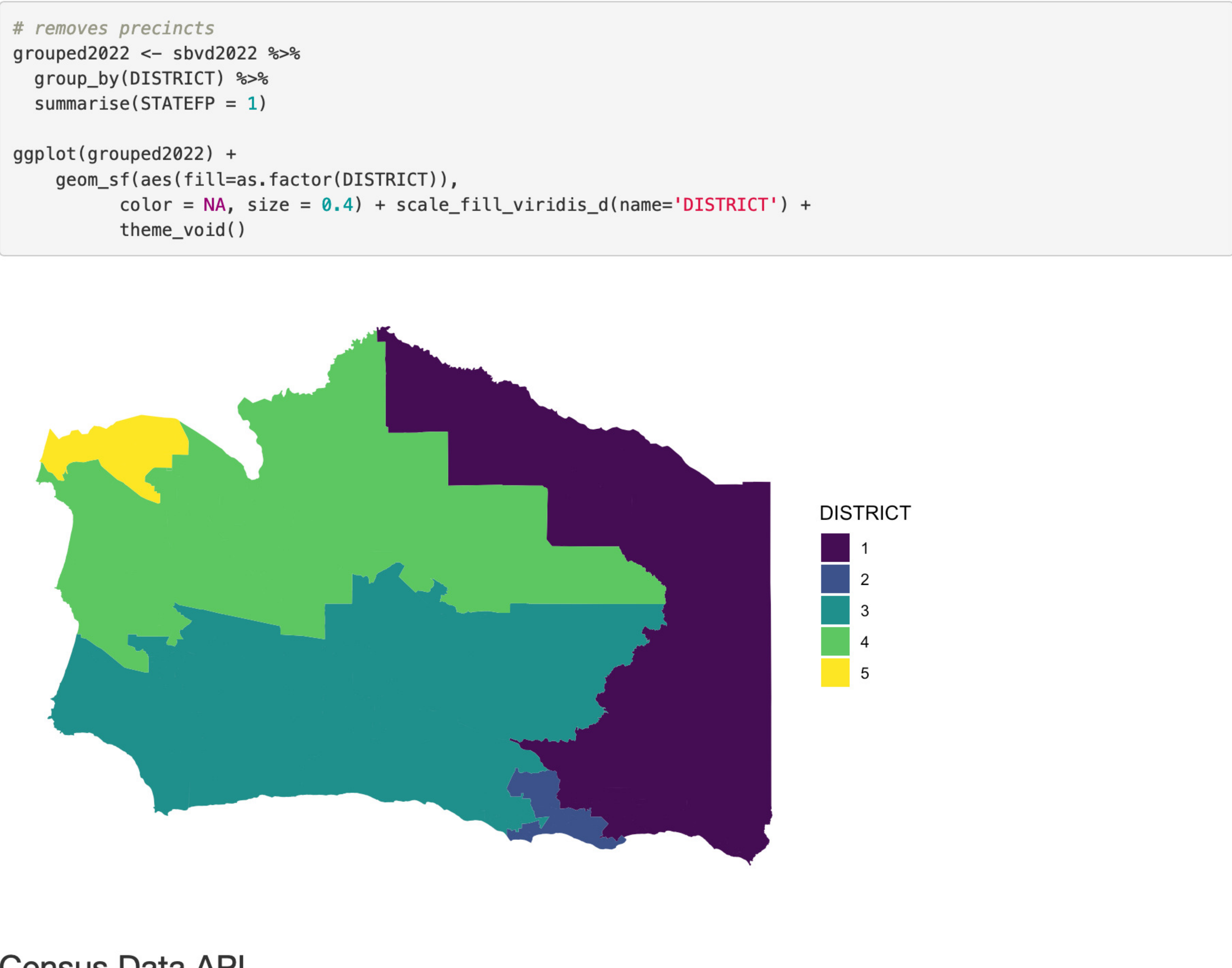
FID_featur<dbl>	PRECINCT<chr>	COUNTY<chr>	FID_feat_1<dbl>	ID<dbl>	AREA<dbl>	DISTRICT<chr>	MEMBERS<dbl>	LOCKED<chr>	NA...<chr>
2	10-1530-A	083	4	2	812.56	1	1	NA	NA
3	10-1532-B	083	4	2	812.56	1	1	NA	NA
4	10-1520-B	083	4	2	812.56	1	1	NA	NA
5	10-1534-A	083	4	2	812.56	1	1	NA	NA
6	10-1534-B	083	4	2	812.56	1	1	NA	NA
7	10-1536-A	083	4	2	812.56	1	1	NA	NA

6 rows | 1-10 of 262 columns

Old Districts



New Districts



Census Data API

```
# API activation key required, see: https://walker-data.com/tidycensus/articles/basic-usage.html
sb2010 <- get_decennial(state = "CA",
  county = "Santa Barbara",
  geography = "tract",
  variables = "P001001",
  geometry = TRUE,
  year = 2010)

st_write(sb2010, "sb2010.shp")

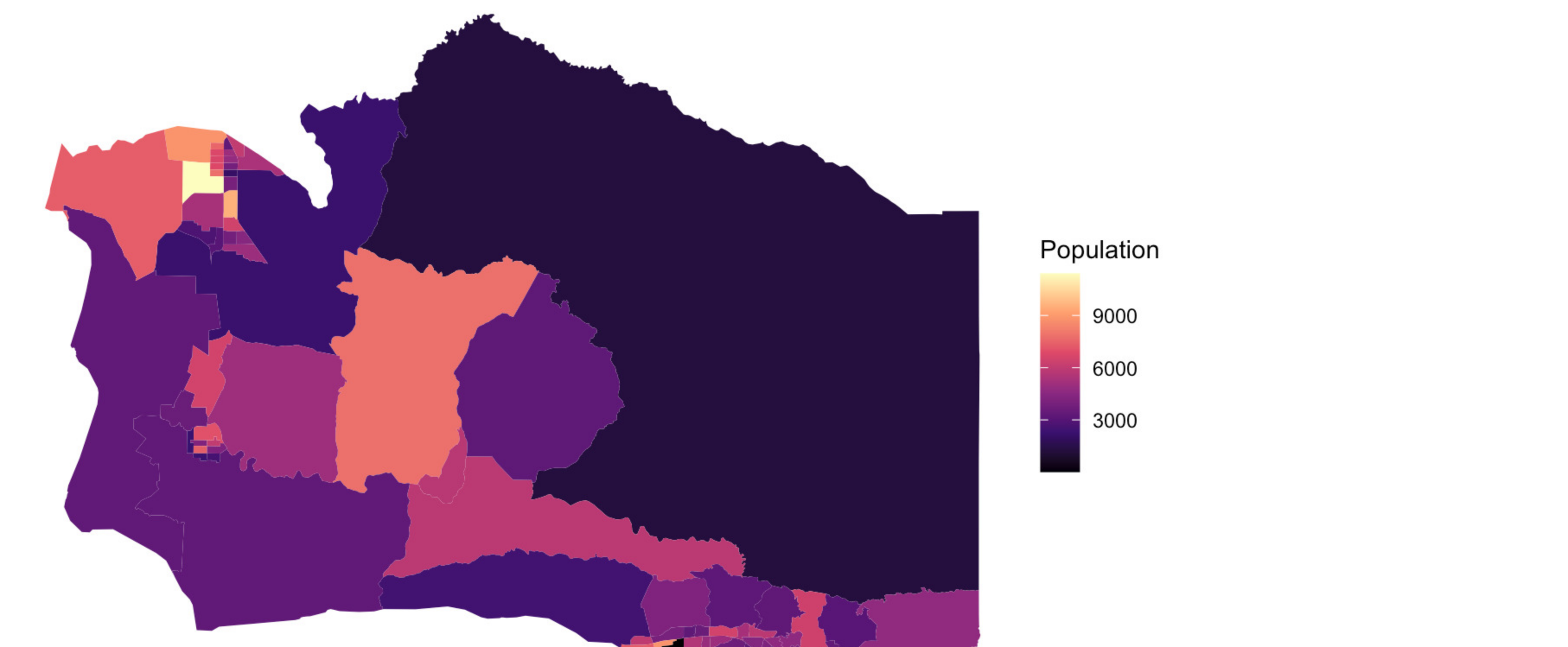
# Note differences between reading 2010 and 2020 census data.
sb2020 <- get_decennial(state = "CA",
  county = "Santa Barbara",
  geography = "tract",
  variables = "P1_001N",
  geometry = TRUE,
  year = 2020)

st_write(sb2020, "sb2020.shp")
```

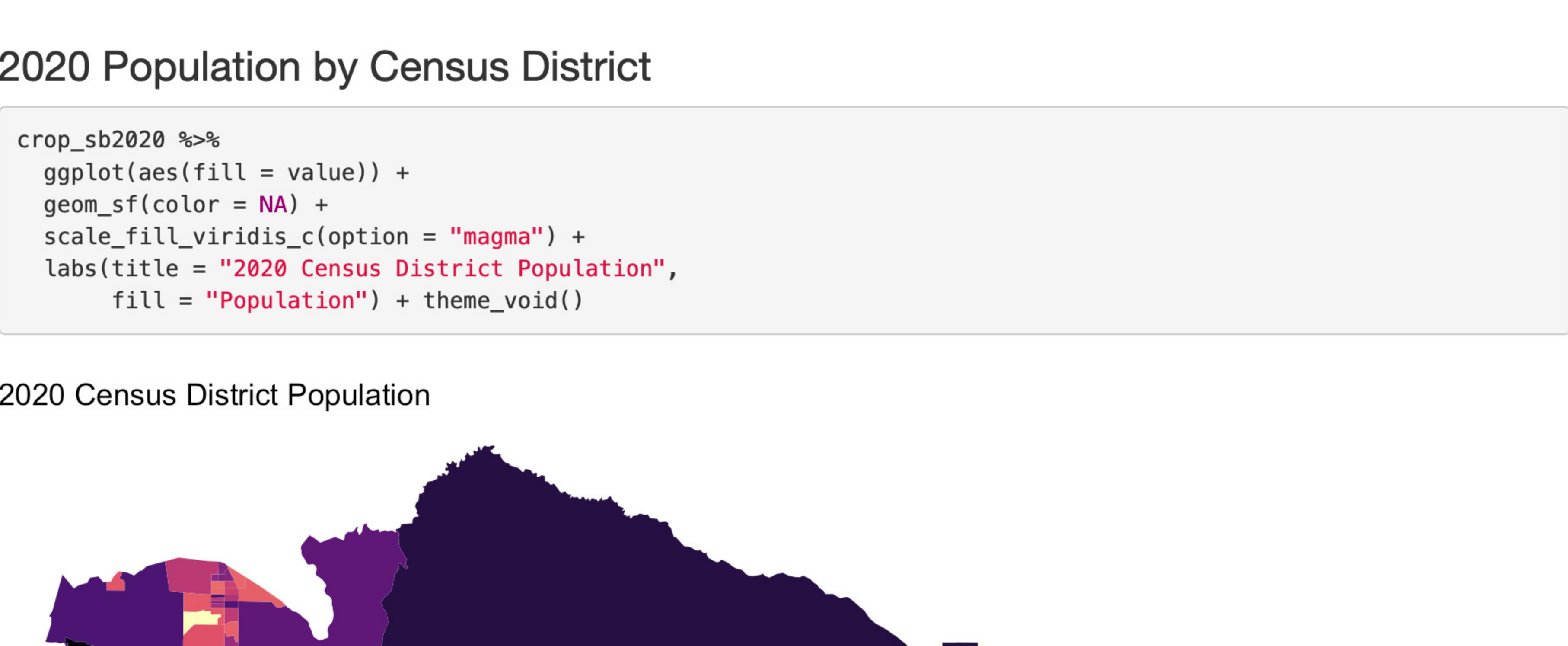
Creating Shape

```
sb2010 <- read_sf("census_shape/sb2010.shp")
sb2020 <- read_sf("census_shape/sb2020.shp")
# removes channel islands
# GEOID = 06083980100 and 06083980000
crop_sb2010 <- sb2010[-c(47:48),]
# GEOID = 06083980100
crop_sb2020 <- sb2020[-29,]
```

2010 Population by Census District



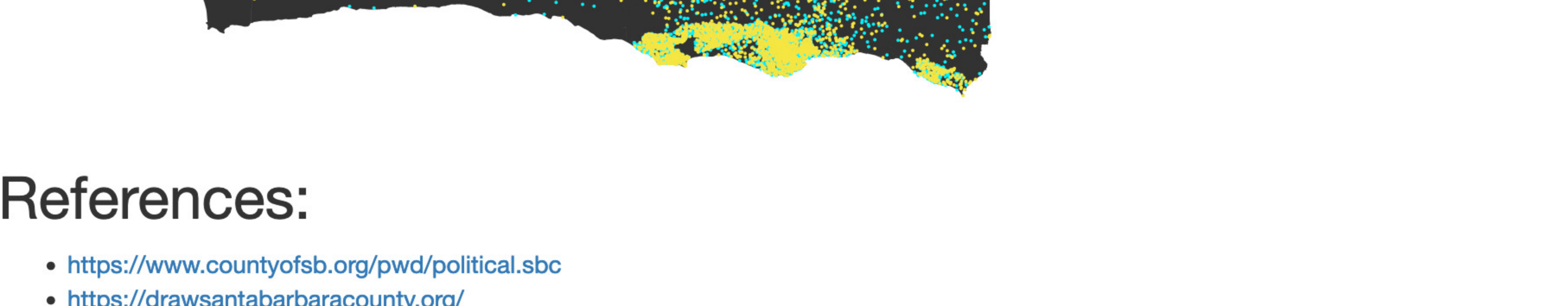
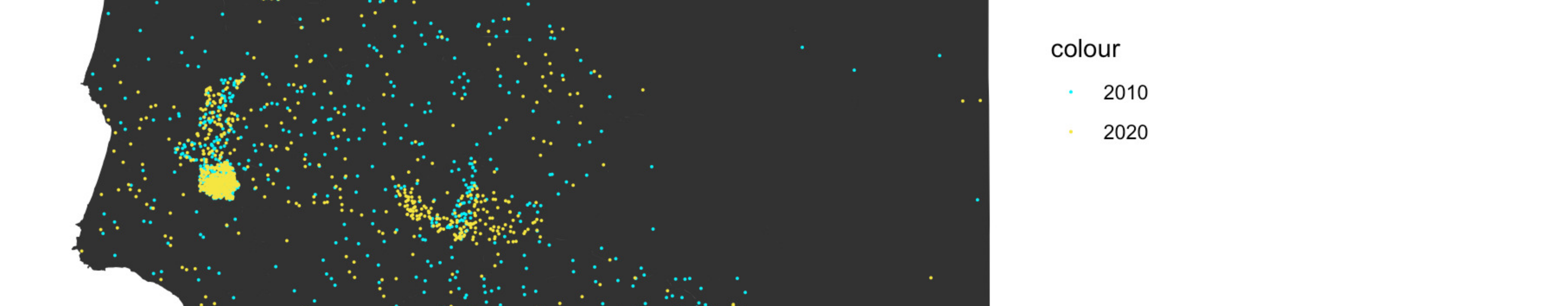
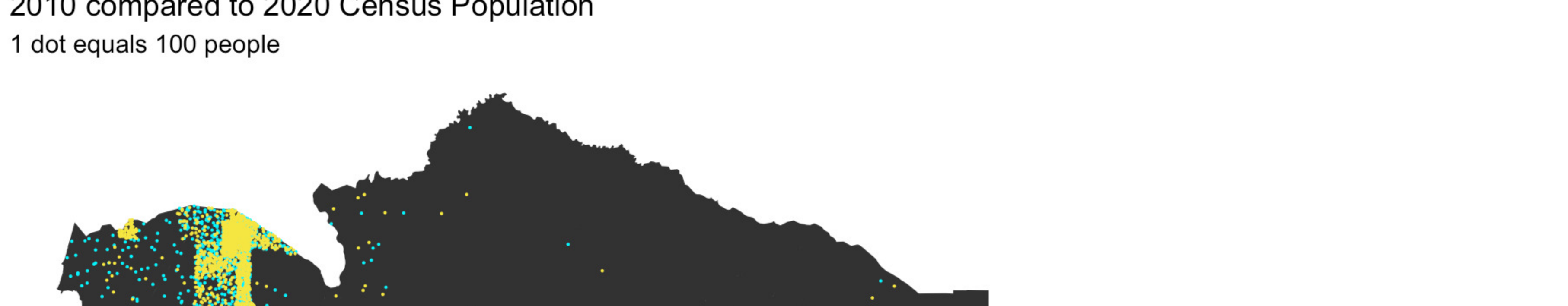
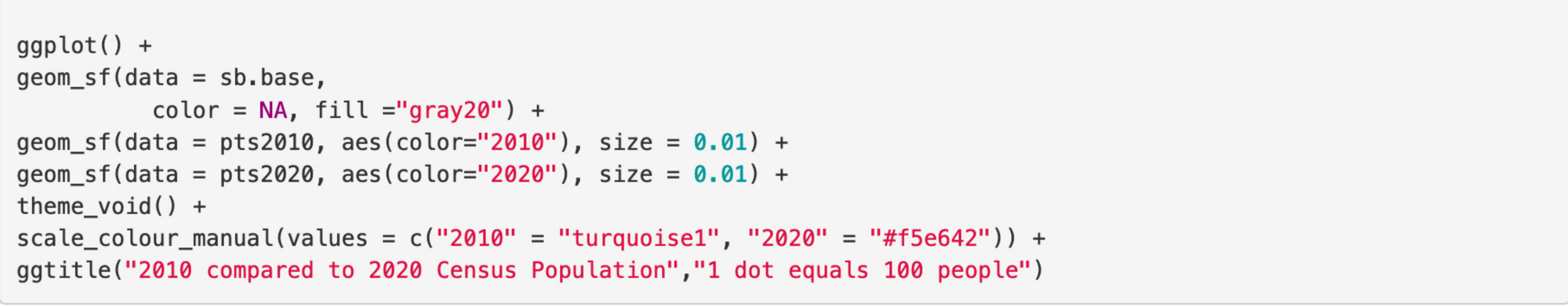
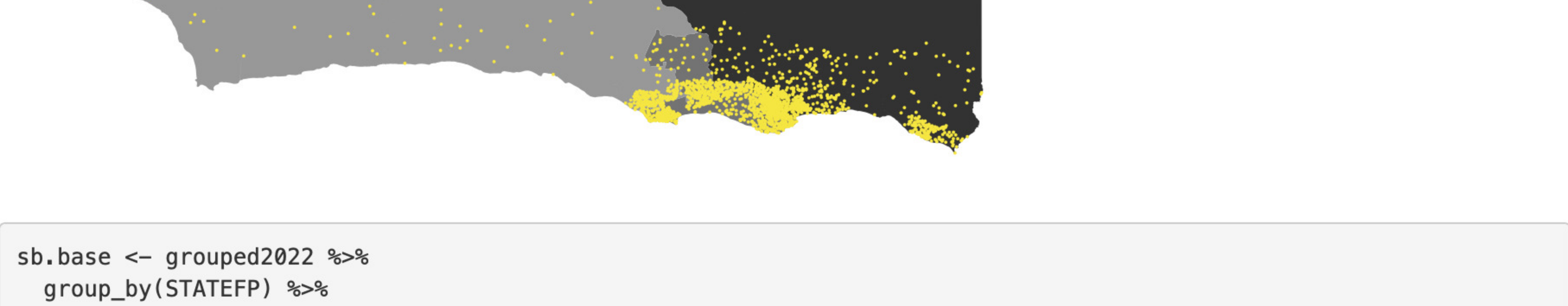
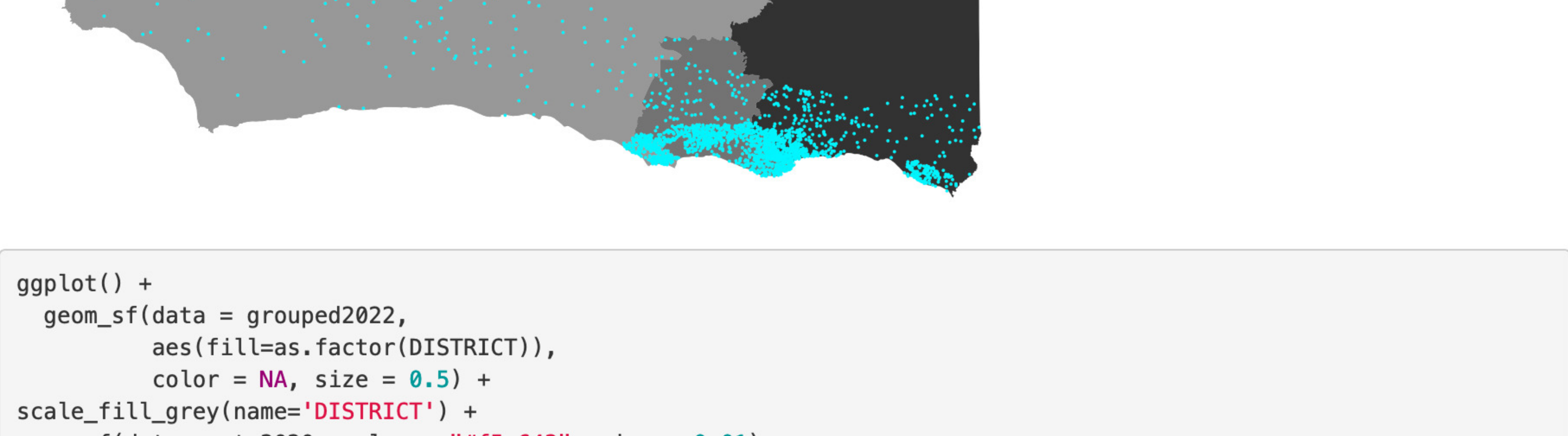
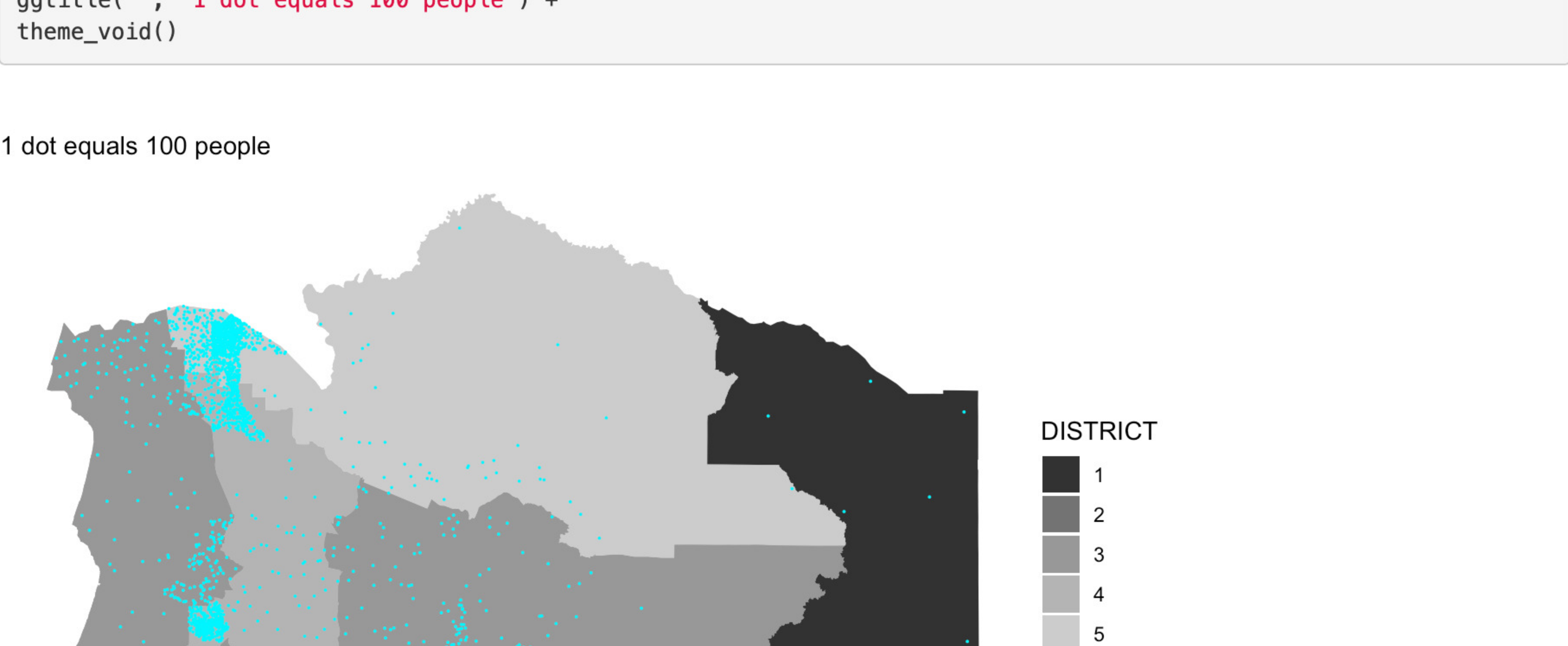
2020 Population by Census District



2020 Census District Population



1 dot equals 100 people



References:

- <https://www.countyofsb.org/pwd/political.sbc>
- <https://drawsantabarabaracounty.org/>
- https://statesandatabase.org/d00/g10_geo_conv.html
- <https://www2.census.gov/>
- <https://tarack02.github.io/dots-california/>
- <https://www.sos.ca.gov/elections/california-redistricting>
- <https://walker-data.com/tidycensus/articles/basic-usage.html>