

SOC 4650/5650: Lecture 08 Functions

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Packages

- `sf`
- `tidycensus`
- `tigris`

Accessing Census Data

Add API Key

```
tidycensus::census_api_key(key = "KEY", install = TRUE)
```

Preview Variables

```
tidycensus::load_variables(year, "product", cache = TRUE)
```

Download Census Data, Variable

```
tidycensus::get_decennial(geography = "geo", year = year,  
  state = "st", county = "county", variable = "variable")
```

Download Census Data, Table

```
tidycensus::get_decennial(geography = "geo", year = year,  
  state = "st", county = "county", table = "table",  
  output = "wide")
```

Download ACS Data, Variable

```
tidycensus::get_decennial(geography = "geo", year = year,  
  state = "st", county = "county", variable = "variable",  
  survey = "acs5")
```

Download ACS Data, Table

```
tidycensus::get_acs(geography = "geo", year = year,
  state = "st", county = "county", table = "table",
  output = "wide", survey = "acs5")
```

*Accessing Spatial Data**Download All States*

```
tigris::states(cb = FALSE, resolution = "res")
```

Download Counties

```
tigris::counties(state = "state", cb = FALSE,
  resolution = "res")
```

Download Census Geographies

```
tigris::tracts(state = "state", county = "county",
  cb = FALSE, resolution = "res")
tigris::block_groups(state = "state", county = "county",
  cb = FALSE, resolution = "res")
tigris::blocks(state = "state", county = "county",
  cb = FALSE, resolution = "res")
```

Convert sp Objects to sf

```
sf::st_as_sf(spData)
```