SOC 4650/5650: Lecture 05 Functions

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Packages

- measurements
- RColorBrewer
- sf
- tidyverse
 - dplyr
 - ggplot2
- viridis

Choropleth Maps

```
ggplot2::geom\_sf(.data, mapping = aes(fill = fillVar),
color = "hex")^{1}
See ColorHexa.com for hex values.
```

Converting Between Measurements

Conversion Function

```
measurements::conv_unit(x, from, to)<sup>2</sup>

Always use this as part of a
dplyr::mutate() call!

Measurement Units

"m2", "hectare", "km2", "ft2", "yd2", "acre", "mi2", "naut_mi2"

Inside mutate()

dplyr::mutate(.data, newVar = conv_unit(oldVar, from, to))
```

Arithmetic Operators

```
+ - "addition"
- - "subtraction"
* - "multiplication"
/ - "division"
^ - "exponentiation"
Color Brewer
  Preview Palettes
  RColorBrewer::display.brewer.all()
  Use Palettes
  RColorBrewer::scale_fill_distiller(palette = "pal",
    trans = "reverse")
Viridis
```

viridis::scale_fill_viridis(option = "pal")