SOC 4015/5050: Lecture 03 Functions

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Packages

- `base`

- `janitor`

- `tidyverse`

  - `reprex`

- `stats`

Density Plot

```
geom_density(mapping = aes(aesthetic))
```

Tables

Basic Table

```
base::table(dataFrame$var)
```

Table via `janitor`

```
janitor::tabyl(dataFrame, var)
```
or
```
dataFrame %>% tabyl(var)
```

Individual Descriptive Statistics

Note: allof the individual descriptive statistics take either a single vector (`x`) or a data frame vector combination (`df$x`).

Median

```
stats::median(x, na.rm = FALSE)
```

Individual Descriptive Statistics (con't)

Mean

```
base::mean(x, na.rm = FALSE)
```

Variance

```
stats::var(x, na.rm = FALSE)
```

Standard Deviation

```
stats::sd(x, na.rm = FALSE)
```

Range

```
base::range(x)
base::min(x)
base::max(x)
```

Inter-quartile Range (IQR)

```
stats::IQR(x)
```

Overview of Descriptive Statistics

Simple Summary

```
base::summary(x)
```

skimr Summary

```
skimr::skim(dataFrame, varlist)
```

Reproducible Example

```
reprex::reprex()
```