

SOC 4930/5050: Week 02, Lecture 02B Functions

Quick Reference

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Packages

- tidyverse
 - ggplot2

Basic Template

```
ggplot2::ggplot(data = dataFrame) +  
  geom(mapping = aes(aesthetic),  
    stat = statistics,  
    position = position,  
  ) +  
  coordinateFunction +  
  facetFunction
```

Geometric Objects

Area Plot

```
geom_area(mapping = aes(aesthetic), stat = "bin")
```

This geom must be paired with an initial ggplot function call.

Aesthetics

Add One Color

```
geom(mapping = aes(aesthetic, color = "colorText"))
```

Use fill for bar plots and histograms, and color for point-based plots like scatter plots.

Add Color Based on Additional Variable

```
geom(mapping = aes(aesthetic, color = colorVar))
```

Position Adjustments

Dodge

```
geom(mapping = aes(aesthetic, fill = colorVar),  
      position = "dodge")
```

Jitter

```
geom(mapping = aes(x = var1, y = var2, color = colorVar),  
      position = "jitter")
```

Coordinate Systems

Flip x and y Axes

```
geom(mapping = aes(aesthetic)) +  
  coord_flip()
```