

## *SOC 4930/5050: Week 12 R Functions*

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### *Packages*

- `ggplot2`
- `ggthemes`
- `stats`

### *Creating Plots for Dissemination*

#### *Increase Point Size on Scatter Plot*

```
ggplot2::geom_point(size = val)
```

#### *Increase Font Size on Entire Plot*

```
ggplot2::theme_grey(base_size = val)
```

### *Alternative Themes*

The `ggthemes` package contains 14 alternative themes, see their [introductory vignette](#) for a list. Each theme has its own function (e.g. `ggthemes::theme_hc()`) that is included as part of a `ggplot()` call.

### *Labels Function*

```
ggplot2::labs(  
  title = "plot title",  
  subtitle = "plot subtitle",  
  caption = "caption text",  
  x = "x-axis label",  
  y = "y-axis label",  
  color = "legend title"  
)
```

### *Adjust Legend Sizing*

```
ggplot2::theme(legend.key.size = unit(val, units = "cm"))1
```

<sup>1</sup> ggplot2 accepts inches and millimeters as units of measure in addition to centimeters.

### *Legend Labels*

```
ggplot2::scale_colour_discrete(labels = c("label1", "label2"))
```

### *Saving a Plot*

```
ggplot2::ggsave("filename.png", height = val, width = val,  
  dpi = val)
```

### *Linear Model*

```
stats::lm(formula = yvar ~ xvar, data = dataFrame)
```