

Problem Set 1

R Markdown

This is an R Markdown document themed with `{bslib}` package. `{bslib}` makes it easy to customize the main colors and fonts of a `html_document`, `flexdashboard::flex_dashboard`, `shiny::fluidPage()`, or more generally any website that uses Bootstrap for styling. The `theme` parameter in the yaml front-matter of this Rmd document describes a `bslib::bs_theme()` object, which provides access to 100s of theming options (via its `...` argument) in addition to the main options demonstrated here (e.g., `bg`, `fg`, `primary`, etc).

This particular example uses `{bslib}`'s default Bootstrap version (which, at the time of writing, is Bootstrap 5). However, if reproducibility is important, it's recommended that you "lock-in" the version by adding `version: 5` to the `theme` definition.

Themed Plots

When running this document with `{thematic}` installed, the `thematic::thematic_rmd(font = "auto")` effectively translates `theme` (CSS) settings to new global theming defaults for `{ggplot2}`, `{lattice}`, and `{base}` R graphics:

ggplot2

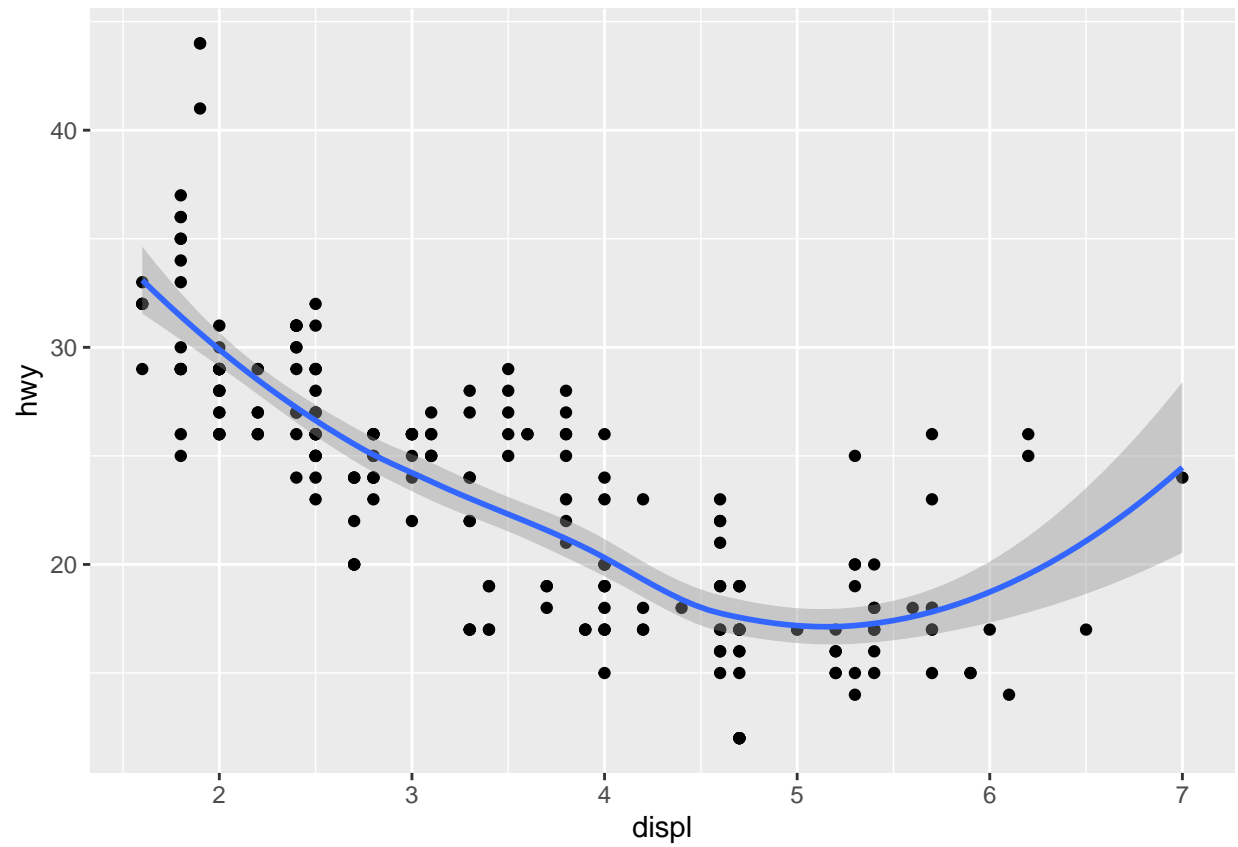
```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.1.3
```

```
ggplot(mpg, aes(displ, hwy)) +  
  geom_point() + geom_smooth()
```

```
## Error : The fig.showtext code chunk option must be TRUE
```

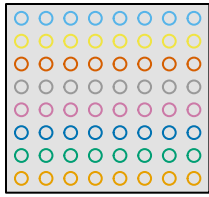
```
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```



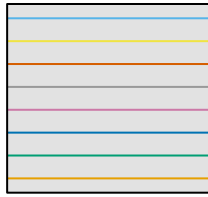
lattice

```
lattice::show.settings()
```

```
## Error : The fig.showtext code chunk option must be TRUE
```



superpose.symbol



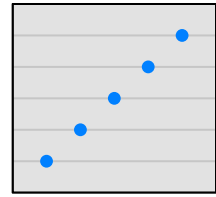
superpose.line



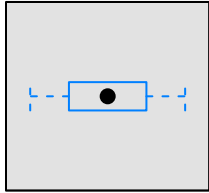
strip.background



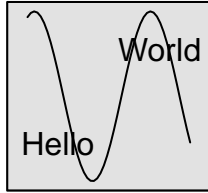
strip.shingle



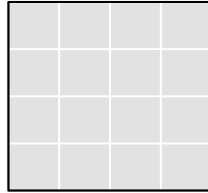
dot.[symbol, line]



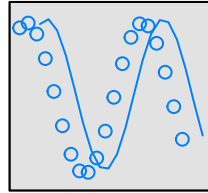
xx.[dot, rectangle, umbrella]



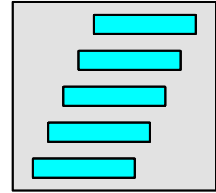
add.[line, text]



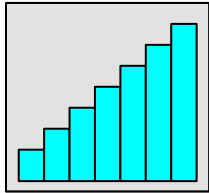
reference.line



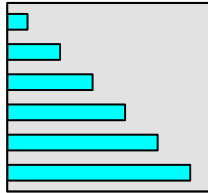
plot.[symbol, line]



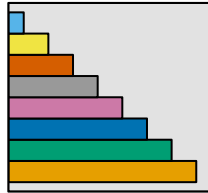
plot.shingle[plot.polygon]



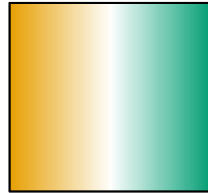
histogram[plot.polygon]



archart[plot.polygon]



superpose.polygon



regions

base