

STAT 451 - Visualizing Data - Autumn 2025

Ariane Ducellier

10/07/2025

Lab 2: Ggplot2 - Exercise 5

In this lab, we are going to visualize the relationship between loan amounts and credit grades (column name = grade) for different home ownership categories. Think box plots and trellis display.

Libraries

Load the necessary libraries.

```
library(tidyverse)
```

Data

Load and preprocess the data.

```
# read in the data
df <- read_csv("../data/LoanStats.csv")

## Clean the data!
# subtract sub data set with only the stated column names
dfn <- df[, c("home_ownership", "loan_amnt", "grade")]

# omit any data entries with NA/missing values
dfn <- na.omit(dfn)

# remove data entries with "None" home ownership
dfn <- subset(dfn, !dfn$home_ownership %in% c("NONE"))
```

Plot

Complete the cell with the code to make the plot.