

Faceted Scatterplots and Boxplots: Response vs. Predictors

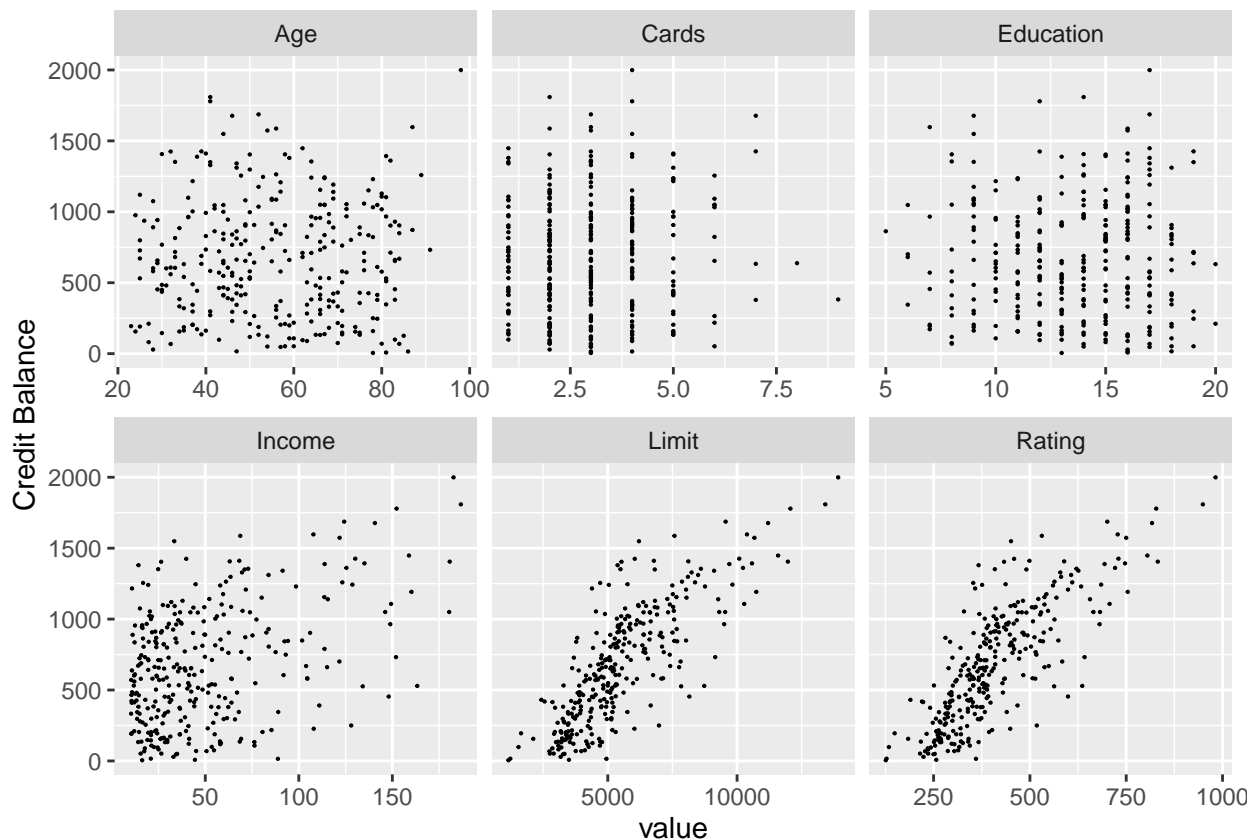
36-600

Fall 2022

```
suppressMessages(library(tidyverse))

df <- read.csv("PROJECT_1/creditBalance.csv",stringsAsFactors=TRUE)

# Faceted scatter plots of response v. quantitative predictors
#
df.new <- df %>% dplyr::select(.,Income,Limit,Rating,Cards,Age,Education) %>% gather(.)
num.var <- 6
ggplot(data=df.new,mapping=aes(x=value,y=rep(df$Balance,num.var))) +
  geom_point(size=0.1) +
  facet_wrap(~key,scales='free_x') +
  ylab("Credit Balance")
```



```
# Faceted boxplots of response v. categorical predictors
#
df.new <- df %>% dplyr::select(.,Gender,Student,Married) %>% gather(.)
```

```
## Warning: attributes are not identical across measure variables;  
## they will be dropped
```

```
num.var <- 3  
ggplot(data=df.new,mapping=aes(x=value,y=rep(df$Balance,num.var))) +  
  geom_boxplot() +  
  facet_wrap(~key,scale='free_x') +  
  ylab("Credit Balance")
```

