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# BAR GRAPH -#

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# Clear the workspace

**rm(list = ls())**

**# NOTE:**

# Uncomment the code lines wherever required (Ex: Package installation..)

# set the working directory: Recommended

# It will enable in keeping all the plots in one location.

# use setwd() & getwd() functions

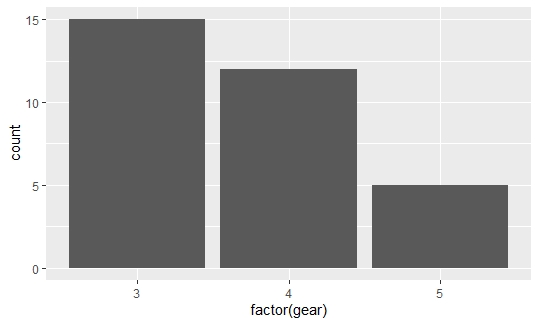
# Install & load the package " ggplot2 "

# install.packages("ggplot2")

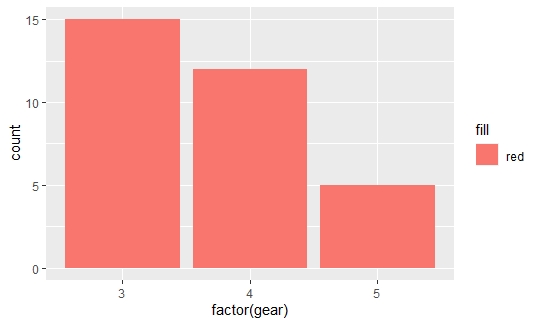
**library(ggplot2)**

# Plot simple bar graph

**ggplot(mtcars, aes(x = factor(gear) ))+geom\_bar()**

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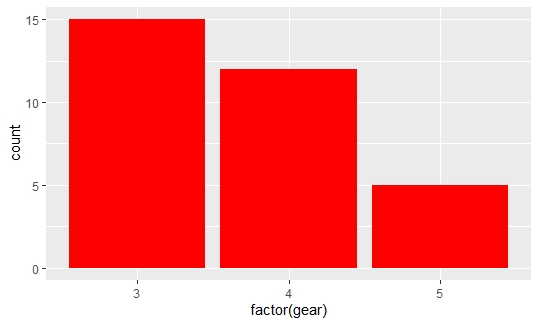
**ggplot(mtcars, aes(x = factor(gear),fill="red"))+geom\_bar()**

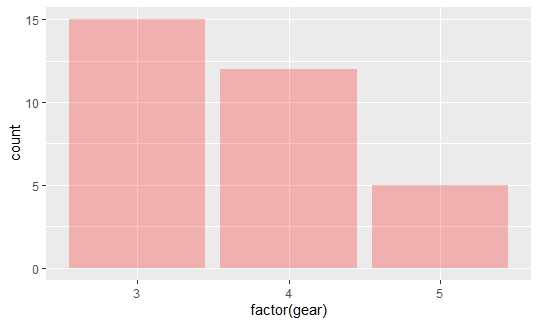


# adding contrast to the color

**ggplot(mtcars, aes(x = factor(gear) ))+geom\_bar(fill="red",alpha=1)**

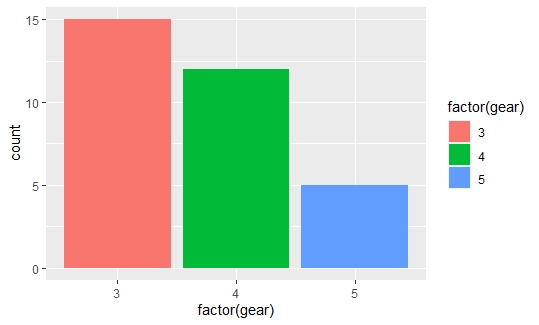
**ggplot(mtcars, aes(x = factor(gear) ))+geom\_bar(fill="red",alpha=0.25)**





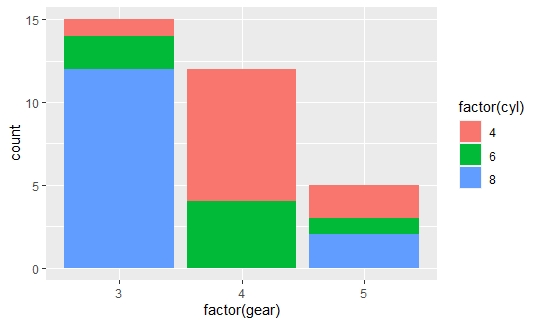
# Color each bar by group

**ggplot(mtcars, aes(x = factor(gear),fill=factor(gear)))+geom\_bar()**



# Adding groups in the bar by cyl (4 6 8)

**ggplot(mtcars, aes(x = factor(gear),fill=factor(cyl)))+geom\_bar()**



# Convert above graph into percentage bar diagram [ in two ways ]

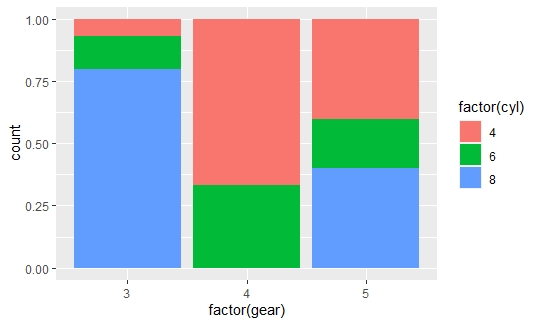
**ggplot(mtcars, aes(x = factor(gear),fill=factor(cyl)))+**

**geom\_bar(position = "fill")**

# OR

**ggplot(mtcars, aes(x = factor(gear),fill=factor(cyl)))+**

**geom\_bar(position = position\_fill())**



# convert into multiple bar graph [ in two version ]

**ggplot(mtcars, aes(x = factor(gear),fill=factor(cyl)))+**

**geom\_bar(position = position\_dodge())**

# OR

**ggplot(mtcars, aes(x = factor(gear),fill=factor(cyl)))+**

**geom\_bar(position = "dodge")**

