Untitled

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## initial setup

This online tutorial is designed to introduce you to using R and RStudio to make the graphs using the NYPD. In this tutorial, you can edit and execute R code and see the results within your browser. You can also learn more details about coding in R using our RTutorials from our Stat2Labs page {{include linkhttps://stat2labs.sites.grinnell.edu/RTutorials.html}}

In R, text and coding are often separated. The places where we type our code are called Code Chunks.

library(readr)  
NYPDdf <- read\_csv("C:/Users/kuipers/Dropbox/MAP\_2022Summer/Analytics/NYPD/NYPD\_BarCharts/NYPDBarData.csv")

## New names:  
## \* `` -> ...1

## Rows: 48644 Columns: 17  
## -- Column specification --------------------------------------------------------  
## Delimiter: ","  
## chr (3): Gender, Race, CrimeType  
## dbl (14): ...1, Year, pct, Arrested, Frisked, Searched, HandCuff, PepperSpra...  
##   
## i Use `spec()` to retrieve the full column specification for this data.  
## i Specify the column types or set `show\_col\_types = FALSE` to quiet this message.

dim(NYPDdf)

## [1] 48644 17

names(NYPDdf)

## [1] "...1" "Gender" "Race" "Year" "pct"   
## [6] "CrimeType" "Arrested" "Frisked" "Searched" "HandCuff"   
## [11] "PepperSpray" "Firearm" "Other" "CEW" "Stopped"   
## [16] "Verbal" "Summons"

## Making plots 1 :

Make plots from page 1: USE ONLY MOSAIC AND GGFORMULA packages for this

Throughout this tutorial we are using an R package called mosaic {{indlude link}} that is designed to for people new to computer programming.