# Comparing Program Outcomes with ggplot2

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## 1 Load the Data

load("social\_service\_agency.RData")

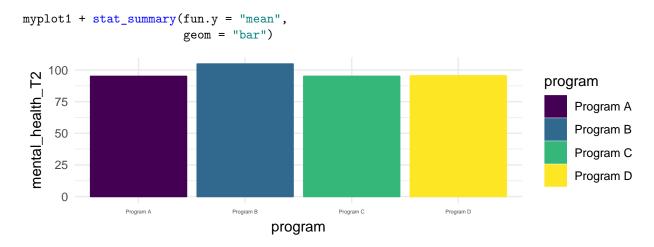
## 2 Load the Libraries

```
library(ggplot2) # beautiful graphs
library(ggthemes) # beautiful themes
```

# 3 Basic Graph (x is program; y is mental health)

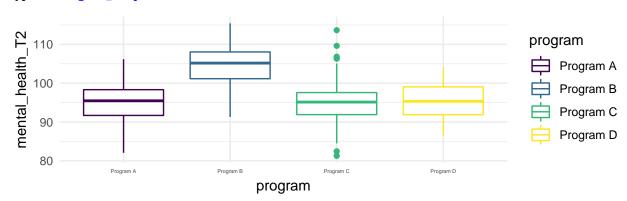
# 4 Add Geometries

## 4.1 Column Chart



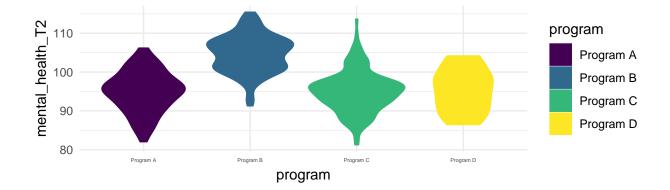
# 4.2 Boxplot





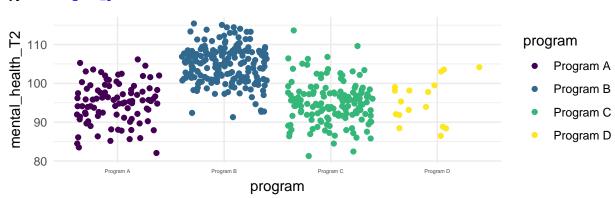
## 4.3 Violin Plot

myplot1 + geom\_violin()



# 4.4 Jittered Points

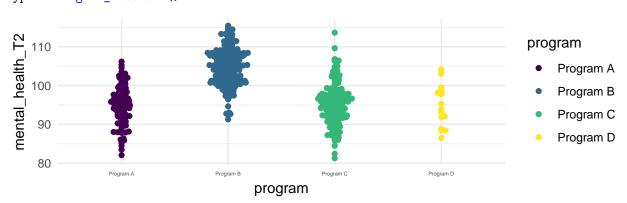




## 4.5 Beeswarm Plot

library(ggbeeswarm) # beeswarm geometry

myplot1 + geom\_beeswarm()

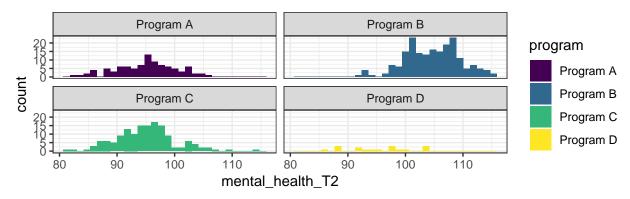


# 5 Alternate Approach (x is mental health; facet wrap on program)

## 6 Add Geometries

## 6.1 Histogram

myplot2 + geom\_histogram()



## 6.2 Density

myplot2 + geom\_density()

