Assualt\_Death\_Rates\_USA\_Vs\_OECD\_Countries

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assault\_data <- read.csv("assault.csv")  
  
new\_assault\_data <- gather(assault\_data, Year, Deaths, -Country)  
  
new\_assault\_data$Year <- as.numeric(substring(new\_assault\_data$Year, 2))  
new\_assault\_data$Deaths <- as.numeric(new\_assault\_data$Deaths)  
  
usa\_data <- subset(new\_assault\_data, Country == "United States")  
other\_countries\_data <- subset(new\_assault\_data, Country != "United States")  
  
ggplot() +  
 # Add data for United States  
 geom\_jitter(data = usa\_data, aes(x = Year, y = Deaths), color = "orange", width = 0.2, height = 0, shape = 19) +  
 geom\_smooth(data = usa\_data, aes(x = Year, y = Deaths), color = "orange", method = "loess", se = FALSE) +  
 # Add data for other OECD countries  
 geom\_jitter(data = other\_countries\_data, aes(x = Year, y = Deaths, color = "blue"), width = 0.2, height = 0, shape = 19) +  
 geom\_smooth(data = other\_countries\_data, aes(x = Year, y = Deaths, color = "blue"), method = "loess", se = FALSE) +  
 # Set plot labels and title  
 labs(x = "Year", y = "Deaths per 100000 Population", title = "Assault death rates in the OCED 1960-2015") +  
 # Set plot theme  
 theme\_minimal() +  
 # Set color scale for countries  
 scale\_color\_manual(name = "Country", values = c(USA = "orange", Other = "blue")) +  
 # Set y-axis limits and breaks  
 scale\_y\_continuous(limits = c(0, 8), breaks = c(0, 2, 4, 6, 8)) +  
 # Prevent overlapping of points  
 coord\_cartesian(clip = "off")

## `geom\_smooth()` using formula = 'y ~ x'

## Warning: Removed 27 rows containing non-finite values (`stat\_smooth()`).

## `geom\_smooth()` using formula = 'y ~ x'

## Warning: Removed 429 rows containing non-finite values (`stat\_smooth()`).

## Warning: Removed 27 rows containing missing values (`geom\_point()`).

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