R Notebook

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```
library(MASS)
library(RColorBrewer)
library(ggridges)
library(ggplot2)
library(tidyverse)
```

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```
 PolShoot<- read.csv(file='fatal-police-shootings-data2015to2021.csv', stringsAsFactors = FALSE,
na.strings=c("","NA"))
```
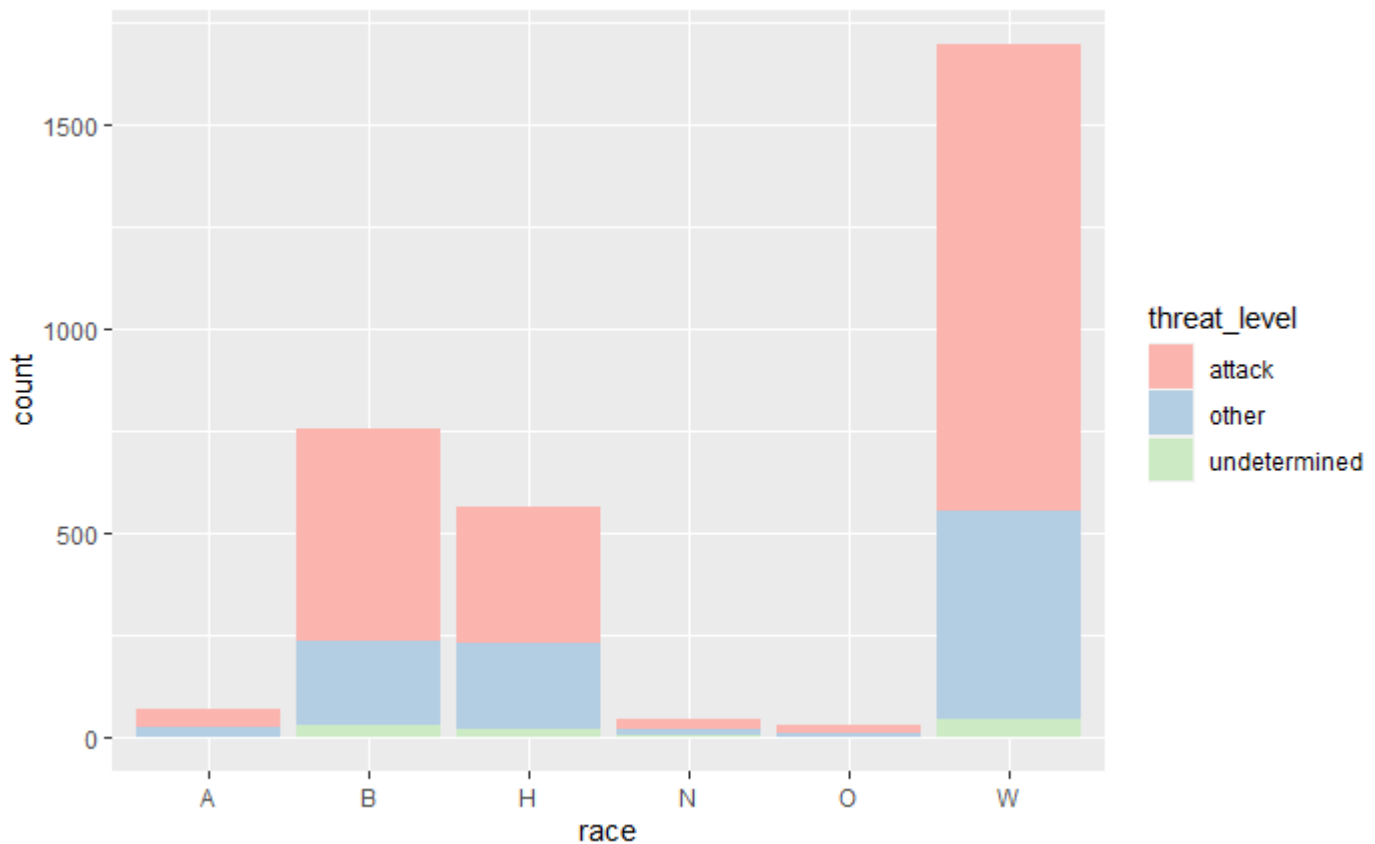
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```
head(PolShoot)
```

id <int>	name <chr>	date <chr>	manner_of_death <chr>	armed <chr>	… <int>	gen… <chr>	r… <chr>	city <chr>
1 3	Tim Elliot	1/2/2015	shot	gun	53	M	A	Shelton
2 4	Lewis Lee Lembke	1/2/2015	shot	gun	47	M	W	Aloha
3 5	John Paul Quintero	1/3/2015	shot and Tasered	unarmed	23	M	H	Wichita
4 8	Matthew Hoffman	1/4/2015	shot	toy weapon	32	M	W	San Francis
5 9	Michael Rodriguez	1/4/2015	shot	nail gun	39	M	H	Evans
6 11	Kenneth Joe Brown	1/4/2015	shot	gun	18	M	W	Guthrie

6 rows | 1-10 of 17 columns

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```
ggplot(na.omit(PolShoot) %>% filter(flee=="Not fleeing"), aes(x = race, fill = threat_level))+ge
om_bar()+scale_fill_brewer(palette="Pastel1")
```

```
# The reason why I chose a stacked bar plot to represent the data was that it allows us to view
 three seperarte attributes at once. This allows us to have a better understanding of more data
 at once. This data tells usa few key pieces of information. Firslty the vast majority of polic
 shotting happen to white indvishuals. This is possible because the majority of the country is w
hite. Secondly in most races, the culprit was ready to attack the police officer before being sh
ot. Third, it is rare for a police officer to shot when they are unaware of the culprits threat
 level in any race.
```

```
PolShoot = PolShoot %>% mutate(ArmedUnarmed = ifelse(armed=="unarmed", "unarmed", "armed"))
y<-ggplot(na.omit(PolShoot), aes(x=signs_of_mental_illness,y=age))
y+ geom_boxplot(aes(fill=ArmedUnarmed))+scale_fill_brewer(palette="Pastel1")
```
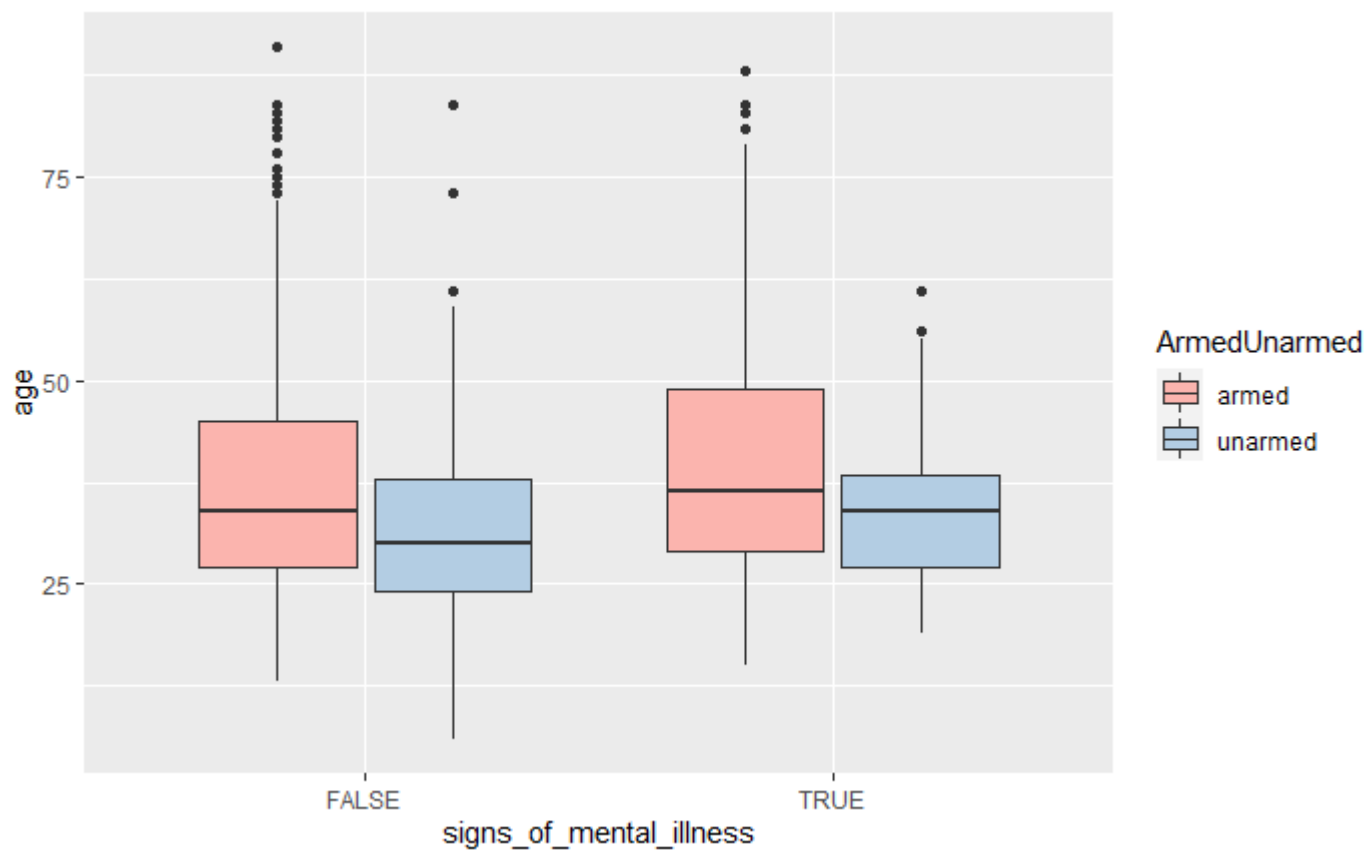
#This figure is telling us a few thing. Firstly, suspects who were armed and killed are on average older than those who are unarmed. This true for suspect who were mental ill and those who weren't. Also, suspects who were mentally ill tend to be older in both armed and unarmed individuals.