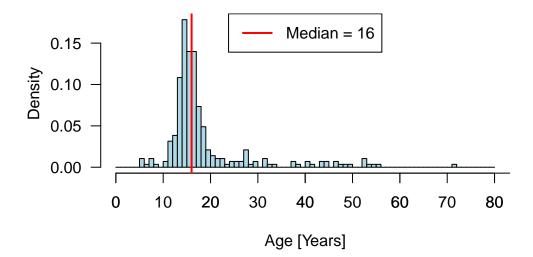
Aufgabe 3, School shootings

Gamper Gian, Bratschi Jonas

Age of school shooters



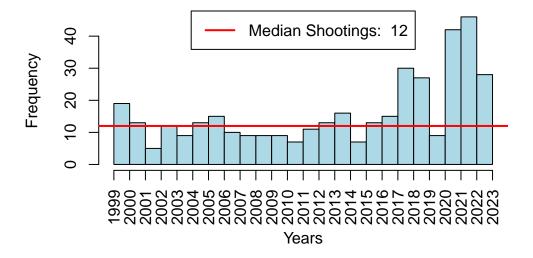
```
# Number schoolshootings
hist(dat$year,
    breaks = c(seq(1999, 2023)),
    main = "Numbers of school shootings in the US since 1999",
    xaxt = "n",
    xlab = "Years",
    col = "lightblue")
axis(side = 1, at = seq(1999, 2023, by = 1), las = 2)

meanshootings <- length(dat$year)/length(unique(dat$year))

# Median
mediantable <- table(dat$year)
medianshootings <- median(c(mediantable))

# Add Median and Legend to plot
abline(h = medianshootings, col = "red", lty = 1, lwd = 2)
legend("top", legend = paste("Median Shootings: ", round(medianshootings, 2)), col = "red"</pre>
```

Numbers of school shootings in the US since 1999

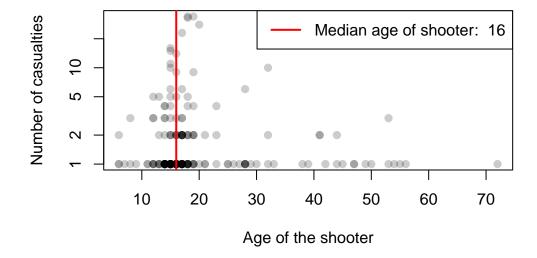


```
plot(x = dat$age_shooter1,
    y = dat$casualties,
    col = adjustcolor("black", alpha = 0.2),
    pch = 19,
    main = "Shooter Age / Number of casualties",
    ylab = "Number of casualties",
    xlab = "Age of the shooter",
    log = "y",
    )
```

Warning in xy.coords(x, y, xlabel, ylabel, log): 124 y values <= 0 omitted from logarithmic plot

```
abline(v = median_age_shooter, col = "red", lwd = 2)
legend("topright", legend = paste("Median age of shooter: ", round(median_age_shooter, 2))
```

Shooter Age / Number of casualties



```
# DIAGRAMM 2
diag_shooting_type <- ggplot(dat, aes(x = casualties, y = shooting_type)) +
   geom_boxplot()
diag_shooting_type + labs(x = "Casualties" , y = "Shooting Type" , title = "Casulties per s</pre>
```

Casulties per shooting Type

