

Mens and Womens Boston Marathon Winners

06.06.2023

Geschwindigkeiten

```
all_times <- format(as.POSIXct(strptime(all_data$Time, format="%H:%M:%S")),  
                    format = "%H:%M:%S")  
  
all_times_hms <- as_hms(all_times)  
  
all_times_in_seconds <- seconds(all_times_hms)  
all_times_in_minutes <- as.numeric(all_times_in_seconds / 60)  
  
all_speeds <- all_times_in_minutes / all_data$Distance..KM.
```

Durchschnitt:

```
mean_speeds <- mean(all_speeds, na.rm=TRUE)  
mean_speeds
```

```
## [1] 3.493601
```

Die Durchschnittsgeschwindigkeit beträgt etwa 3.49 Minuten pro Kilometer.

Boxplot der Geschwindigkeiten:

```
boxplot(all_speeds, type=1, col=c('yellow'))
```

