

# Main Swing Data Analysis

Riya Nandakumar

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## Swing Analysis

This R Markdown document is for the purposes of examining the swing data and differences between the means of the four different types of swings (good swing, little pivot, wild pivot, back leg pick up). After examination, features for the machine learning model will be picked out and utilized in CreateML. This examination is for the datasets using the separate Accelerometer and Gyroscopic data, with intentions of uploading the trained model to the SensorLog app.

```
# install tidyverse
install.packages('tidyverse')

## Installing package into '/home/rstudio-user/R/x86_64-pc-linux-gnu-library/4.0'
## (as 'lib' is unspecified)

# load in tidyverse packages
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.0 --

## v ggplot2 3.3.2      v purrr   0.3.4
## v tibble  3.0.3      v dplyr  1.0.1
## v tidyr   1.1.1      v stringr 1.4.0
## v readr   1.3.1      v forcats 0.5.0

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
```

Differences in Accelerometer Axis X Means:

```
# list of all .csvs in the directory
file_names <- list.files(pattern = '*.csv')

ax_mean_results <- c()

for (file in file_names){
  # read in file
  ax_mean_results <- read_csv(file) %>%
    # means of accelerometer / gyroscope
    summarize(mean_ax = mean(accelerometerAccelerationX)) %>%
    # save file name
    mutate(file) %>%
    # remove the .csv ending part
    mutate(file = gsub('\\.csv', '', file),
           category = gsub('\\d', '', file)) %>%
    # append to previous results
}
```

```

    bind_rows(ax_mean_results, .)
}

## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
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##   accelerometerAccelerationZ = col_double(),
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##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
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##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),

```

```

## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
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##   gyroTimestamp_sinceReboot = col_double(),
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##   accelerometerAccelerationY = col_double(),
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##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```

```

##  accelerometerAccelerationY = col_double(),
##  accelerometerAccelerationZ = col_double(),
##  gyroTimestamp_sinceReboot = col_double(),
##  gyroRotationX = col_double(),
##  gyroRotationY = col_double(),
##  gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
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##   loggingTime = col_double(),
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```

```

## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
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## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```

```

## loggingSample = col_double(),
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## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
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##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),

```



```

## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
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##   accelerometerAccelerationY = col_double(),
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##   gyroTimestamp_sinceReboot = col_double(),
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##   gyroTimestamp_sinceReboot = col_double(),
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##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),

```

```

## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
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## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```

```

##  accelerometerAccelerationY = col_double(),
##  accelerometerAccelerationZ = col_double(),
##  gyroTimestamp_sinceReboot = col_double(),
##  gyroRotationX = col_double(),
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```

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##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```

```

## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:

```

```

## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),

```

```

## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),

```



```

## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```

```

## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),

```

```

## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```

```

## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:

```

```

## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

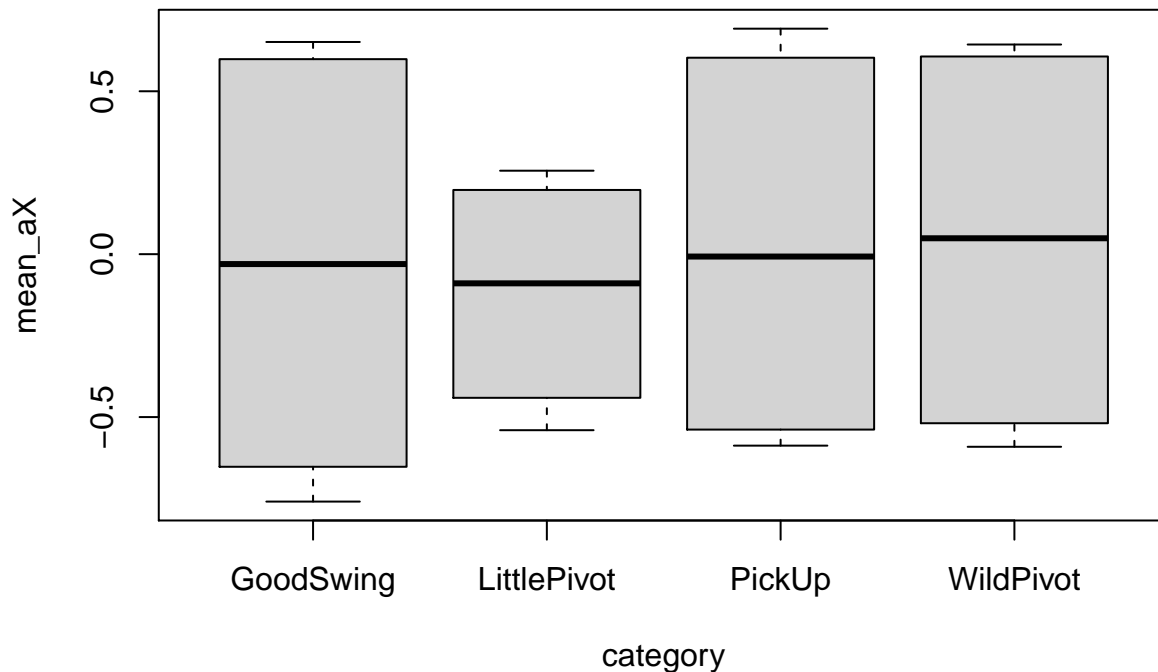
```

```

## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

# results visualization
boxplot(mean_aX ~ category, data = ax_mean_results, title = "Means of Accelerometer Axis X")

```



Differences in Accelerometer Axis Y Means:

```
ay_mean_results <- c()

for (file in file_names){

  ay_mean_results <- read_csv(file) %>%
    summarize(mean_aY = mean(accelerometerAccelerationY)) %>%
    mutate(file) %>%
    mutate(file = gsub('\\.csv', '', file),
           category = gsub('\\d', '', file)) %>%
    bind_rows(ay_mean_results, .)
}
```

```
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
```

```

## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```



```

## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:

```

```

## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),

```

```

## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),

```

```

## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```

```

## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),

```

```

## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```

```

## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:

```



```

## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),

```

```
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
```

```

## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```

```

## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),

```

```

## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```

```

## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:

```

```

## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```



```

## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),

```

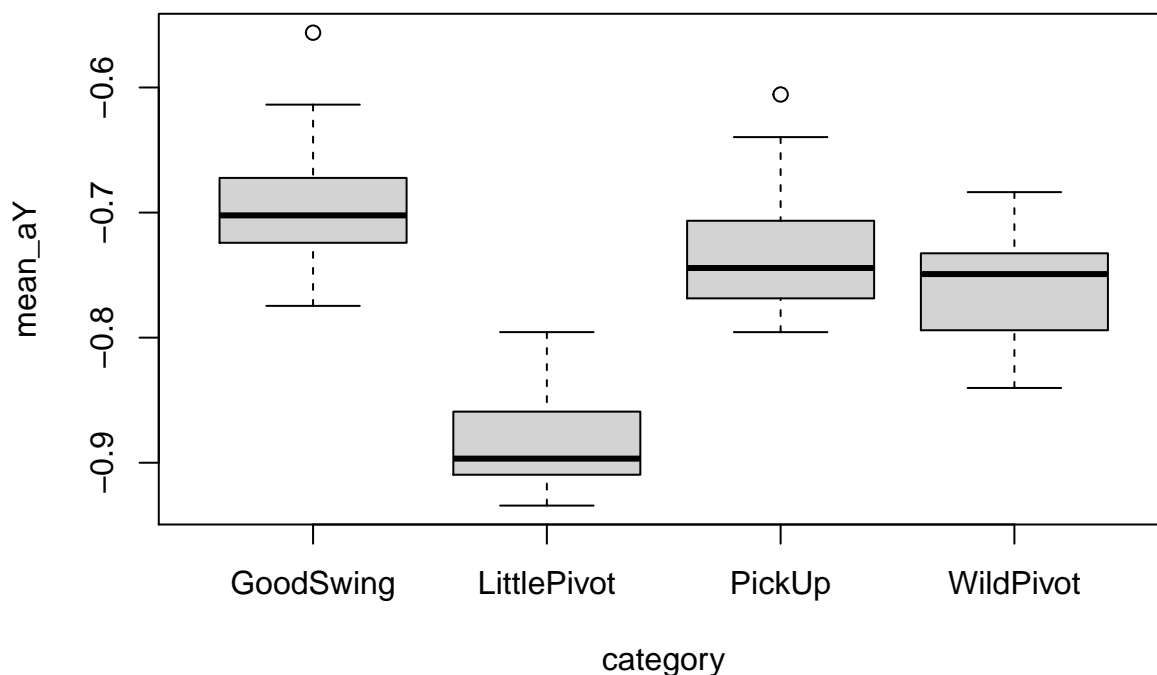
```
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
```

```

## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```

```
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
boxplot(mean_aY ~ category, data = ay_mean_results, title = "Means of Accelerometer Axis Y")
```



Differences in Accelerometer Axis Z Means:

```
az_mean_results <- c()

for (file in file_names){

  az_mean_results <- read_csv(file) %>%
    summarize(mean_aZ = mean(accelerometerAccelerationZ)) %>%
    mutate(file) %>%
    mutate(file = gsub('\\.csv', '', file),
```

```

        category = gsub('\\d', '', file)) %>%
    bind_rows(az_mean_results, .)
}

```

```

## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),

```

```

##  accelerometerAccelerationZ = col_double(),
##  gyroTimestamp_sinceReboot = col_double(),
##  gyroRotationX = col_double(),
##  gyroRotationY = col_double(),
##  gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),

```

```

## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),

```

```

## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(

```



```

## loggingTime = col_double(),
## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),

```

```

## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),

```

```

##  accelerometerAccelerationZ = col_double(),
##  gyroTimestamp_sinceReboot = col_double(),
##  gyroRotationX = col_double(),
##  gyroRotationY = col_double(),
##  gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),

```

```

## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),

```

```

## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(

```

```

## loggingTime = col_double(),
## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```



```

## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),

```

```

## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),

```

```

## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),

```

```

## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),

```

```

## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(

```

```

## loggingTime = col_double(),
## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

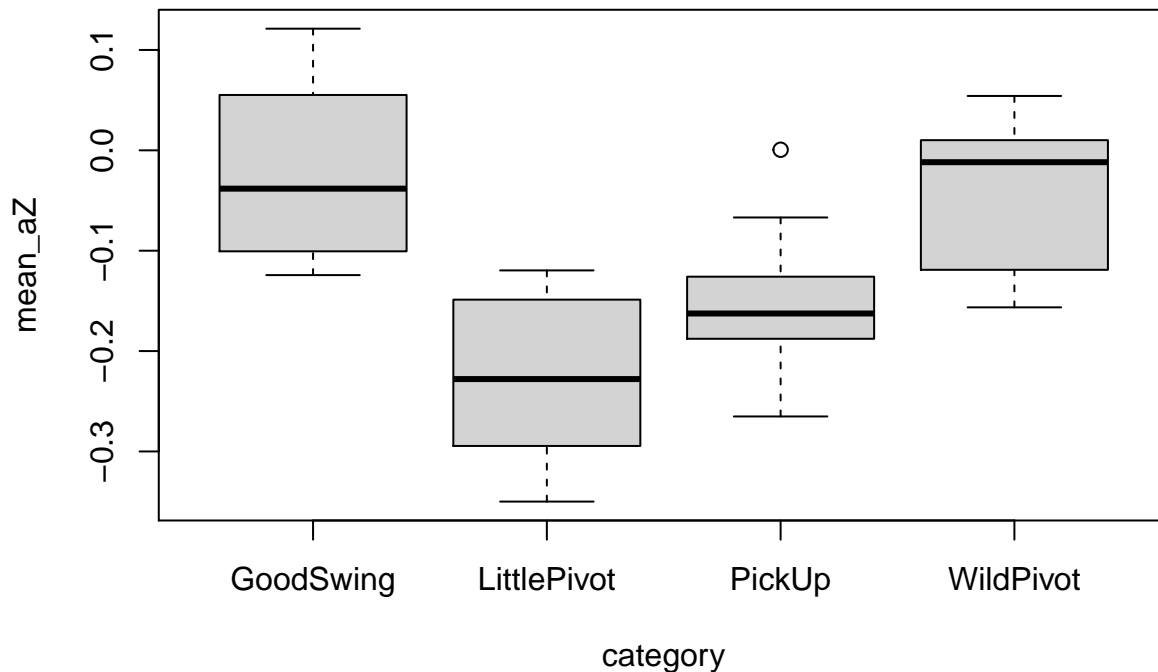
```



```

## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
boxplot(mean_aZ ~ category, data = az_mean_results, title = "Means of Accelerometer Axis Z")

```



Differences in Gyroscope Axis X Means:

```
gx_mean_results <- c()

for (file in file_names){

  gx_mean_results <- read_csv(file) %>%
    summarize(mean_gX = mean(gyroRotationX)) %>%
    mutate(file) %>%
    mutate(file = gsub('\\.csv', '', file),
           category = gsub('\\d', '', file)) %>%
    bind_rows(gx_mean_results, .)
}

## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
```

```

## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```

```

## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:

```

```

## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
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##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),

```

```

## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double()

```

```

## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```



```

##  accelerometerAccelerationY = col_double(),
##  accelerometerAccelerationZ = col_double(),
##  gyroTimestamp_sinceReboot = col_double(),
##  gyroRotationX = col_double(),
##  gyroRotationY = col_double(),
##  gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),

```

```

## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```

```

## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:

```

```

## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),

```

```
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
```

```

## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```

```

##  accelerometerAccelerationY = col_double(),
##  accelerometerAccelerationZ = col_double(),
##  gyroTimestamp_sinceReboot = col_double(),
##  gyroRotationX = col_double(),
##  gyroRotationY = col_double(),
##  gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),

```



```

## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```

```

## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:

```

```

## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),

```

```

## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double()

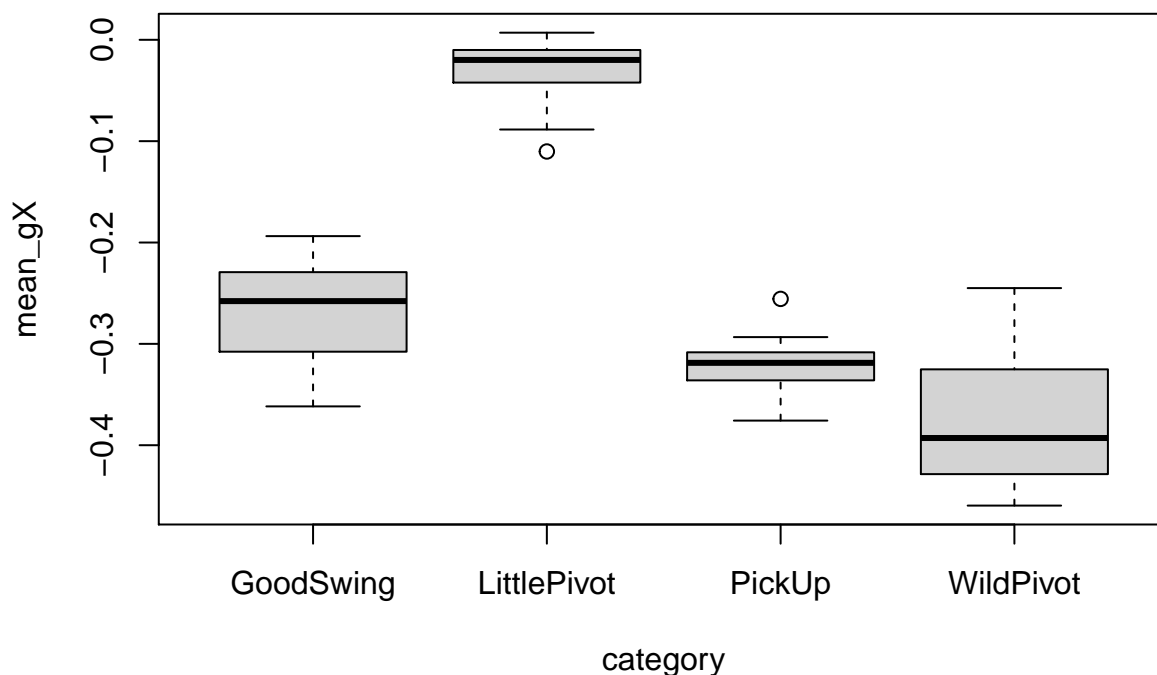
```

```

## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```

```
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
boxplot(mean_gX ~ category, data = gx_mean_results, title = "Means of Gyroscope Axis X")
```



Differences in Gyroscope Axis Y Means:

```
gy_mean_results <- c()

for (file in file_names){

  gy_mean_results <- read_csv(file) %>%
    summarize(mean_gY = mean(gyroRotationY)) %>%
    mutate(file) %>%
    mutate(file = gsub('\\.csv', '', file),
```

```

        category = gsub('\\d', '', file)) %>%
    bind_rows(gy_mean_results, .)
}

```

```

## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),

```



```

##  accelerometerAccelerationZ = col_double(),
##  gyroTimestamp_sinceReboot = col_double(),
##  gyroRotationX = col_double(),
##  gyroRotationY = col_double(),
##  gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),

```

```

## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),

```

```

## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(

```

```

## loggingTime = col_double(),
## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),

```

```

## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),

```

```

## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),

```



```

## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),

```

```

## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(

```

```

## loggingTime = col_double(),
## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),

```

```

## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),

```

```

## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),

```

```

## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),

```



```

## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(

```

```

## loggingTime = col_double(),
## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

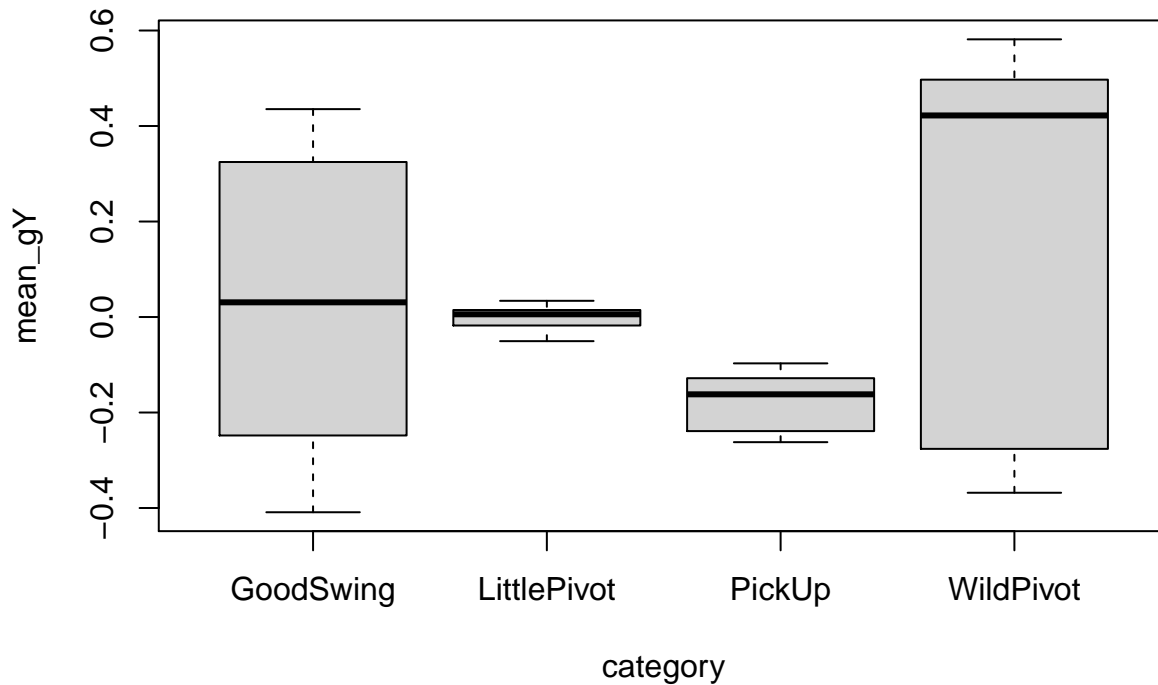
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
boxplot(mean_gY ~ category, data = gy_mean_results, title = "Means of Gyroscope Axis Y")

```



Differences in Gyroscope Axis Z Means:

```
gz_mean_results <- c()

for (file in file_names){

  gz_mean_results <- read_csv(file) %>%
    summarize(mean_gZ = mean(gyroRotationZ)) %>%
    mutate(file) %>%
    mutate(file = gsub('\\.csv', '', file),
           category = gsub('\\d', '', file)) %>%
    bind_rows(gz_mean_results, .)
}

## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
```

```

## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```

```

## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:

```

```

## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```



```

## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),

```

```
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
```

```

## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```

```

## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),

```

```

## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```

```

## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:

```

```

## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),

```



```

## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),

```

```

## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```

```

## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),

```

```

## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),

```

```

## loggingSample = col_double(),
## identifierForVendor = col_double(),
## accelerometerTimestamp_sinceReboot = col_double(),
## accelerometerAccelerationX = col_double(),
## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:

```

```

## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )

```

```

## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),

```

```

## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),

```



```

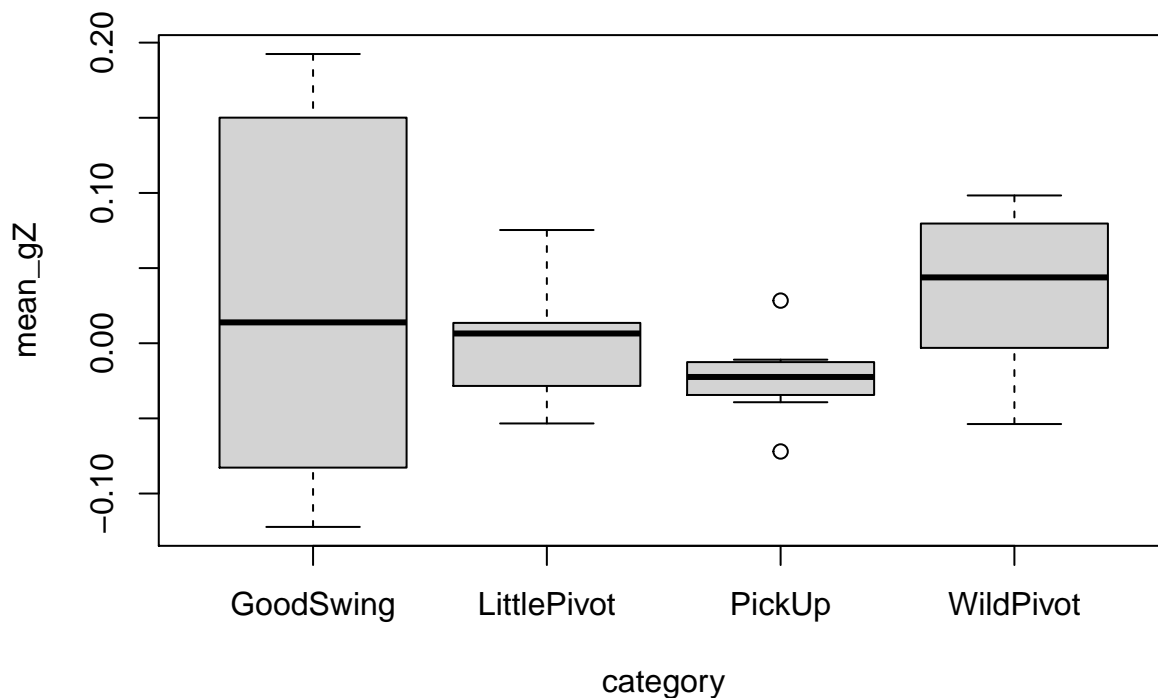
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),

```

```

## accelerometerAccelerationY = col_double(),
## accelerometerAccelerationZ = col_double(),
## gyroTimestamp_sinceReboot = col_double(),
## gyroRotationX = col_double(),
## gyroRotationY = col_double(),
## gyroRotationZ = col_double()
## )
## Parsed with column specification:
## cols(
##   loggingTime = col_double(),
##   loggingSample = col_double(),
##   identifierForVendor = col_double(),
##   accelerometerTimestamp_sinceReboot = col_double(),
##   accelerometerAccelerationX = col_double(),
##   accelerometerAccelerationY = col_double(),
##   accelerometerAccelerationZ = col_double(),
##   gyroTimestamp_sinceReboot = col_double(),
##   gyroRotationX = col_double(),
##   gyroRotationY = col_double(),
##   gyroRotationZ = col_double()
## )
boxplot(mean_gZ ~ category, data = gz_mean_results, title = "Means of Gyroscope Axis Z")

```



Summary: From the data visualization presented above, the features I will strive to use in my machine learning model are the accelerometer's Z axis and the gyroscope's X axis. These axes have the biggest differences between swing types, making classification much easier. If needed, the CreateML model can easily utilize the other discarded features; however I will only add these in if the model could improve significantly. (apologies for the pages of column passing specifications in the knitted pdf)