## Fitbit

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## 27/03/2022

```
##Setting Up my Environment
Notes: Setting up my R environment by loading 'tidyverse', 'lubridate', 'ggplot2' and 'readxl' packages
install.packages("sqldf",repos = "http://cran.us.r-project.org")
##
## The downloaded binary packages are in
## /var/folders/lm/w5zzwdkj53j10r_167k6dy140000gn/T//RtmpchaBhg/downloaded_packages
library(tidyverse) #helps wrangle data
## -- Attaching packages ------ 1.3.1 --
## v ggplot2 3.3.5 v purrr 0.3.4
## v tibble 3.1.6 v dplyr 1.0.8
## v tidyr 1.1.4 v stringr 1.4.0
## v readr 2.1.1 v forcats 0.5.1
## -- Conflicts -----
                                         ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
library(lubridate) #helps wrangle date attributes
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
       date, intersect, setdiff, union
library(ggplot2) #helps visualize data
library(sqldf)
```

## Loading required package: gsubfn

```
## Loading required package: proto
## Warning in doTryCatch(return(expr), name, parentenv, handler): unable to load shared object '/Librar
    dlopen(/Library/Frameworks/R.framework/Resources/modules//R_X11.so, 0x0006): Library not loaded: /
    Referenced from: /Library/Frameworks/R.framework/Versions/4.1/Resources/modules/R_X11.so
##
    Reason: tried: '/opt/X11/lib/libSM.6.dylib' (no such file), '/Library/Frameworks/R.framework/Resou
## Could not load tcltk. Will use slower R code instead.
## Loading required package: RSQLite
##Importing requires Datasets
Note: Here we are loading various datasets that are collect form the fitbase
dailyActivity_merged <- read.csv("Fitabase Data 4.12.16-5.12.16/dailyActivity_merged.csv")
daily_calories <- read.csv("Fitabase Data 4.12.16-5.12.16/dailyCalories_merged.csv")
sleep_day <- read.csv("Fitabase Data 4.12.16-5.12.16/sleepDay_merged.csv")</pre>
daily_intensities <- read.csv("Fitabase Data 4.12.16-5.12.16/dailyIntensities_merged.csv")
weight_log <- read.csv("Fitabase Data 4.12.16-5.12.16/weightLogInfo_merged.csv")</pre>
##Explore the datasets
colnames(dailyActivity_merged) #know column names
   [1] "Id"
                                  "ActivityDate"
##
   [3] "TotalSteps"
                                  "TotalDistance"
##
   [5] "TrackerDistance"
                                  "LoggedActivitiesDistance"
## [7] "VeryActiveDistance"
                                  "ModeratelyActiveDistance"
## [9] "LightActiveDistance"
                                  "SedentaryActiveDistance"
## [11] "VeryActiveMinutes"
                                  "FairlyActiveMinutes"
## [13] "LightlyActiveMinutes"
                                  "SedentaryMinutes"
## [15] "Calories"
glimpse(dailyActivity_merged) #This is like a transposed version of print: columns run down the page, a
## Rows: 940
## Columns: 15
## $ Id
                             <dbl> 1503960366, 1503960366, 1503960366, 150396036~
## $ ActivityDate
                             <chr> "04/12/2016", "4/13/2016", "4/14/2016", "4/15~
                             <int> 13162, 10735, 10460, 9762, 12669, 9705, 13019~
## $ TotalSteps
## $ TotalDistance
                             <dbl> 8.50, 6.97, 6.74, 6.28, 8.16, 6.48, 8.59, 9.8~
## $ TrackerDistance
                             <dbl> 8.50, 6.97, 6.74, 6.28, 8.16, 6.48, 8.59, 9.8~
```

<dbl> 1.88, 1.57, 2.44, 2.14, 2.71, 3.19, 3.25, 3.5~ ## \$ VeryActiveDistance ## \$ ModeratelyActiveDistance <dbl> 0.55, 0.69, 0.40, 1.26, 0.41, 0.78, 0.64, 1.3~ ## \$ LightActiveDistance <dbl> 6.06, 4.71, 3.91, 2.83, 5.04, 2.51, 4.71, 5.0~ ## \$ SedentaryActiveDistance <int> 25, 21, 30, 29, 36, 38, 42, 50, 28, 19, 66, 4~ ## \$ VeryActiveMinutes ## \$ FairlyActiveMinutes <int> 13, 19, 11, 34, 10, 20, 16, 31, 12, 8, 27, 21~ ## \$ LightlyActiveMinutes <int> 328, 217, 181, 209, 221, 164, 233, 264, 205, ~ <int> 728, 776, 1218, 726, 773, 539, 1149, 775, 818~ ## \$ SedentaryMinutes <int> 1985, 1797, 1776, 1745, 1863, 1728, 1921, 203~ ## \$ Calories

```
colnames(daily_calories) #know column names
## [1] "Id"
                    "ActivityDate" "Calories"
glimpse(daily_calories) #This is like a transposed version of print: columns run down the page, and dat
## Rows: 940
## Columns: 3
                <dbl> 1503960366, 1503960366, 1503960366, 1503960366, 150396036~
## $ Id
## $ ActivityDate <chr> "12/4/2016", "4/13/2016", "4/14/2016", "4/15/2016", "4/16~
## $ Calories
                <int> 1985, 1797, 1776, 1745, 1863, 1728, 1921, 2035, 1786, 177~
colnames(sleep_day) #know column names
## [1] "Id"
                          "SleepDay"
                                             "TotalSleepRecords"
## [4] "TotalMinutesAsleep" "TotalTimeInBed"
glimpse(sleep_day) #This is like a transposed version of print: columns run down the page, and data run
## Rows: 413
## Columns: 5
## $ Id
                      <dbl> 1503960366, 1503960366, 1503960366, 1503960366, 150~
                      <chr> "12/04/2016 12:00 AM", "4/13/2016 12:00:00 AM", "4/~
## $ SleepDay
## $ TotalMinutesAsleep <int> 327, 384, 412, 340, 700, 304, 360, 325, 361, 430, 2~
## $ TotalTimeInBed
                      <int> 346, 407, 442, 367, 712, 320, 377, 364, 384, 449, 3~
colnames(daily_intensities) #know column names
  [1] "Id"
                                "ActivityDate"
## [3] "SedentaryMinutes"
                                "LightlyActiveMinutes"
## [5] "FairlyActiveMinutes"
                                "VeryActiveMinutes"
                                "LightActiveDistance"
##
  [7] "SedentaryActiveDistance"
  [9] "ModeratelyActiveDistance" "VeryActiveDistance"
glimpse(daily_intensities) #This is like a transposed version of print: columns run down the page, and
## Rows: 940
## Columns: 10
                           <dbl> 1503960366, 1503960366, 1503960366, 150396036~
## $ Id
## $ ActivityDate
                           <chr> "12/4/2016", "4/13/2016", "4/14/2016", "4/15/~
                           <int> 728, 776, 1218, 726, 773, 539, 1149, 775, 818~
## $ SedentaryMinutes
## $ LightlyActiveMinutes
                           <int> 328, 217, 181, 209, 221, 164, 233, 264, 205, ~
                           <int> 13, 19, 11, 34, 10, 20, 16, 31, 12, 8, 27, 21~
## $ FairlyActiveMinutes
## $ VeryActiveMinutes
                           <int> 25, 21, 30, 29, 36, 38, 42, 50, 28, 19, 66, 4~
## $ LightActiveDistance
                           <dbl> 6.06, 4.71, 3.91, 2.83, 5.04, 2.51, 4.71, 5.0~
```

<dbl> 1.88, 1.57, 2.44, 2.14, 2.71, 3.19, 3.25, 3.5~

## \$ ModeratelyActiveDistance <dbl> 0.55, 0.69, 0.40, 1.26, 0.41, 0.78, 0.64, 1.3~

## \$ VeryActiveDistance

```
colnames(weight_log) #know column names
## [1] "Id"
                                                 "Date"
                                                                                    "WeightKg"
                                                                                                                       "WeightPounds"
## [5] "Fat"
                                                 "BMI"
                                                                                    "IsManualReport" "LogId"
glimpse(weight_log) #This is like a transposed version of print: columns run down the page, and data ru
## Rows: 67
## Columns: 8
                                         <dbl> 1503960366, 1503960366, 1927972279, 2873212765, 2873212~
## $ Id
## $ Date
                                         <chr> "02/05/2016 11:59 PM", "03/05/2016 11:59 PM", "4/13/201~
## $ WeightKg
                                         <dbl> 52.6, 52.6, 133.5, 56.7, 57.3, 72.4, 72.3, 69.7, 70.3, ~
                                         <dbl> 115.9631, 115.9631, 294.3171, 125.0021, 126.3249, 159.6~
## $ WeightPounds
## $ Fat
                                         <dbl> 22.65, 22.65, 47.54, 21.45, 21.69, 27.45, 27.38, 27.25,~
## $ BMI
## $ IsManualReport <1gl> TRUE, TRUE
                                         <dbl> 1.46223e+12, 1.46232e+12, 1.46051e+12, 1.46128e+12, 1.4~
## $ LogId
##Exploring or Analysing the data and Importing sqldf
Note: All the datasets has Id as common field so can use id as primary field for this. It looks like the
daily_activity, daily_calories, and daily_intensities have the exact same number of observations.So we
should confirm that the values actually match for any given 'ID' number. Lets write the SQL query /syntax
to see if there are any values in daily calories that are in daily Activity merged, so created temp data frame
dailyActivity_merged2<- dailyActivity_merged %>%
    select(Id,ActivityDate,Calories)
head(dailyActivity merged2)
##
                          Id ActivityDate Calories
## 1 1503960366
                                    04/12/2016
                                                                    1985
## 2 1503960366
                                       4/13/2016
                                                                    1797
## 3 1503960366
                                      4/14/2016
                                                                   1776
## 4 1503960366
                                       4/15/2016
                                                                    1745
## 5 1503960366
                                      4/16/2016
                                                                   1863
## 6 1503960366
                                      4/17/2016
                                                                   1728
#finding similar elements from 2 tables
sql_check <- sqldf('Select * From dailyActivity_merged2 INTERSECT SELECT * FROM daily_calories')</pre>
head(sql_check)
##
                          Id ActivityDate Calories
## 1 1503960366
                                      4/13/2016
                                                                   1797
## 2 1503960366
                                      4/14/2016
                                                                   1776
## 3 1503960366
                                      4/15/2016
                                                                   1745
## 4 1503960366
                                      4/16/2016
                                                                   1863
## 5 1503960366
                                      4/17/2016
                                                                   1728
## 6 1503960366
                                      4/18/2016
                                                                   1921
```

```
nrow(sql_check)#number of rows
```

#### ## [1] 578

Note: From the above codes we can say that since the first six values of daily\_activity and daily\_calories are same and total observation of the sql query is 940 the values are the same between the dataframes.

```
dailyActivity_merged3<- dailyActivity_merged %>%
   select(Id, ActivityDate, SedentaryMinutes, LightlyActiveMinutes, FairlyActiveMinutes, VeryActiveMinut
head(dailyActivity_merged3)
```

##		Id	ActivityDate	SedentaryMinutes	LightlyActiveMinutes
##	1	1503960366	04/12/2016	728	328
##	2	1503960366	4/13/2016	776	217
##	3	1503960366	4/14/2016	1218	181
##	4	1503960366	4/15/2016	726	209
##	5	1503960366	4/16/2016	773	221
##	6	1503960366	4/17/2016	539	164
##		FairlyActiv	eMinutes Verg	ActiveMinutes Sec	${\tt dentaryActiveDistance}$
##	1		13	25	0
##	2		19	21	0
##	3		11	30	0
##	4		34	29	0
##	5		10	36	0
##	6		20	38	0
##		LightActive	eDistance Mode	eratelyActiveDista	ance VeryActiveDistance
##	1		6.06	(	0.55 1.88
##	2		4.71	(	0.69 1.57
##	3		3.91	(	2.44
##	4		2.83	:	1.26 2.14
##	5		5.04	(	0.41 2.71
##	6		2.51	(	0.78 3.19

sql\_check2 <- sqldf('Select \* from dailyActivity\_merged3 INTERSECT select \* from daily\_intensities')
head(sql\_check2)</pre>

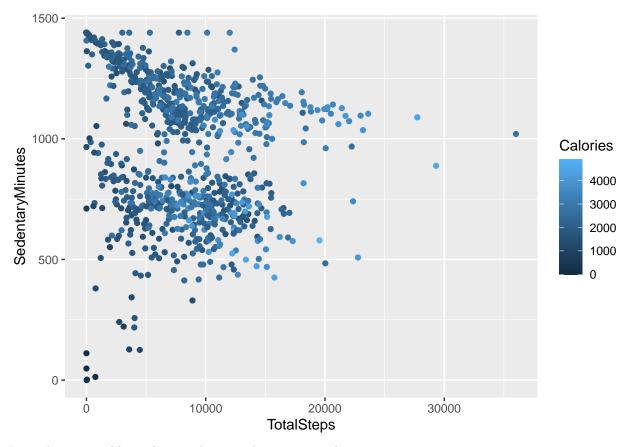
```
##
              Id ActivityDate SedentaryMinutes LightlyActiveMinutes
## 1 1503960366
                     4/13/2016
                                              776
                                                                      217
                     4/14/2016
## 2 1503960366
                                              1218
                                                                      181
## 3 1503960366
                     4/15/2016
                                              726
                                                                      209
                     4/16/2016
                                              773
                                                                      221
## 4 1503960366
## 5 1503960366
                     4/17/2016
                                               539
                                                                      164
                                              1149
## 6 1503960366
                     4/18/2016
                                                                      233
     {\tt FairlyActiveMinutes}\ {\tt VeryActiveMinutes}\ {\tt SedentaryActiveDistance}
## 1
                        19
                                                                        0
## 2
                        11
                                            30
## 3
                        34
                                            29
                                                                        0
## 4
                        10
                                            36
                                                                        0
                        20
## 5
                                            38
                                                                        0
## 6
                        16
                                            42
```

```
LightActiveDistance ModeratelyActiveDistance VeryActiveDistance
##
## 1
                     4.71
                                                 0.69
                                                                     1.57
## 2
                     3.91
                                                 0.40
                                                                     2.44
## 3
                     2.83
                                                 1.26
                                                                     2.14
## 4
                     5.04
                                                 0.41
                                                                     2.71
## 5
                     2.51
                                                 0.78
                                                                     3.19
## 6
                     4.71
                                                 0.64
                                                                     3.25
nrow(sql_check2)
## [1] 578
##Analysing the datas from the based on assumption made
###Checking if the data in daily
Activity_merged is greater than that in sleep_day and weight_log
n_distinct(dailyActivity_merged$Id)
## [1] 33
n_distinct(sleep_day$Id)
## [1] 24
n_distinct(weight_log$Id)
## [1] 8
As per the understanding its seen that the data in dailyActivity_merged is more
\#\#Number of Observation in Each dataframe
nrow(dailyActivity_merged)
## [1] 940
nrow(sleep_day)
## [1] 413
nrow(weight_log)
## [1] 67
\#\#\#\mathrm{Getting} the summary of Tables
dailyActivity_merged %>%
  select(TotalSteps,
          TotalDistance,
         SedentaryMinutes,
          VeryActiveMinutes) %>%
  summary()
```

```
##
     TotalSteps
                   TotalDistance
                                   SedentaryMinutes VeryActiveMinutes
  Min. : 0
##
                   Min.
                         : 0.000
                                         : 0.0
                                                    Min. : 0.00
                                   Min.
                   1st Qu.: 2.620
                                                    1st Qu.: 0.00
  1st Qu.: 3790
                                    1st Qu.: 729.8
## Median : 7406
                                   Median :1057.5
                                                    Median: 4.00
                   Median : 5.245
         : 7638
## Mean
                   Mean : 5.490
                                   Mean : 991.2
                                                    Mean
                                                          : 21.16
## 3rd Qu.:10727
                   3rd Qu.: 7.713
                                    3rd Qu.:1229.5
                                                    3rd Qu.: 32.00
## Max.
          :36019
                   Max.
                         :28.030
                                   Max.
                                         :1440.0
                                                    Max.
                                                           :210.00
sleep_day %>%
 select(TotalSleepRecords,
        TotalMinutesAsleep,
        TotalTimeInBed) %>%
 summary()
   TotalSleepRecords TotalMinutesAsleep TotalTimeInBed
## Min.
          :1.000
                     Min. : 58.0
                                       Min.
                                              : 61.0
## 1st Qu.:1.000
                     1st Qu.:361.0
                                       1st Qu.:403.0
## Median :1.000
                     Median :433.0
                                       Median :463.0
## Mean
         :1.119
                     Mean :419.5
                                       Mean
                                              :458.6
## 3rd Qu.:1.000
                     3rd Qu.:490.0
                                       3rd Qu.:526.0
                     Max. :796.0
## Max.
          :3.000
                                       Max. :961.0
weight_log %>%
 select(WeightPounds,
        BMI) %>%
 summary()
                        {\tt BMI}
##
    WeightPounds
                          :21.45
## Min.
          :116.0
                   Min.
## 1st Qu.:135.4
                   1st Qu.:23.96
## Median :137.8
                   Median :24.39
## Mean
         :158.8
                   Mean
                        :25.19
## 3rd Qu.:187.5
                   3rd Qu.:25.56
          :294.3
                          :47.54
## Max.
                   Max.
##Visualisation or Plotting the exploration
```

I would like to start with the relationship between steps taken in a da and sedentary(people were inactive) minutes

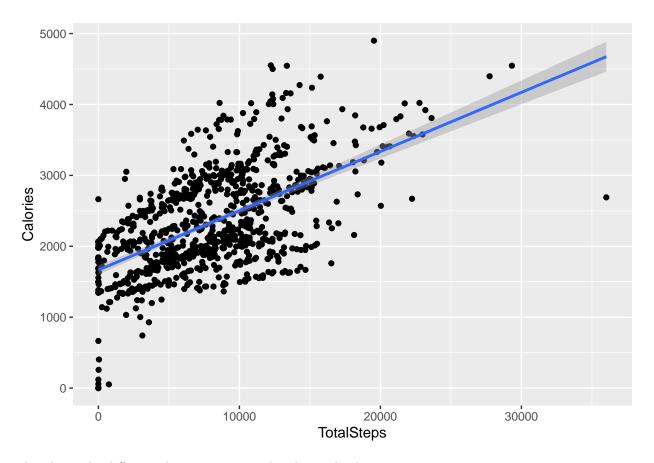
ggplot(data=dailyActivity\_merged, aes(x=TotalSteps, y=SedentaryMinutes, color = Calories)) + geom\_point



Form thus we could see that total as one doesnt move when inactive

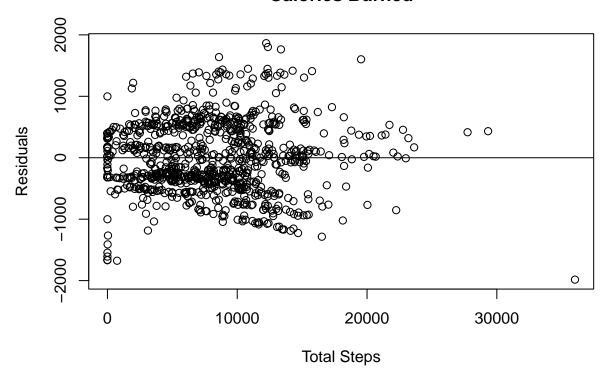
Now I will plot the graph between calories and total steps to see the relationship between them.

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



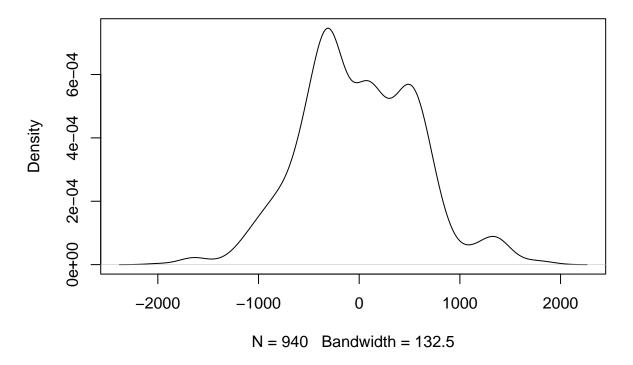
This shows the difference between estimated and actual calories

# **Calories Burned**



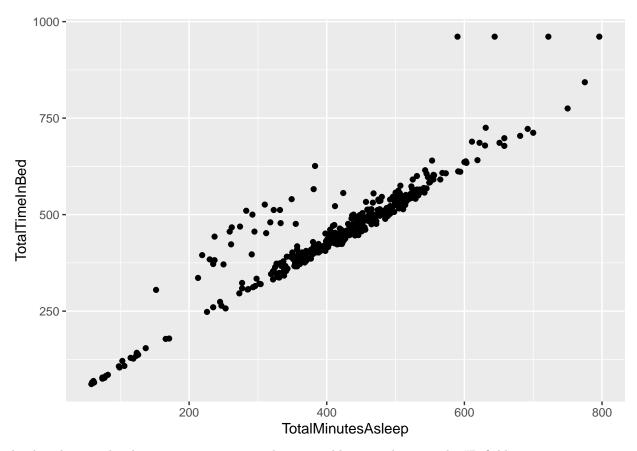
#This looks messy so we will plot using desity plot
plot(density(calories.res))

# density.default(x = calories.res)



Let's look at our sleep data, we should see a practically 1:1 trend from the amount of time slept and the total time someone spends in bed.

ggplot(data=sleep\_day,aes(x=TotalMinutesAsleep,y=TotalTimeInBed))+geom\_point()



As sleep hour and sedentary minutes are similar we could merge the to set by ID field

```
combined_sleep_day_data <- merge(sleep_day,dailyActivity_merged,by="Id")
head(combined_sleep_day_data)</pre>
```

##		Id		Sleepl	Day	TotalSle	eepRecords	Tota	alMinutesAsl	eep
##	1	1503960366	12/04/2016	12:00	AM		1			327
##	2	1503960366	12/04/2016	12:00	AM		1			327
##	3	1503960366	12/04/2016	12:00	AM		1			327
##	4	1503960366	12/04/2016	12:00	$\mathtt{AM}$		1			327
##	5	1503960366	12/04/2016	12:00	AM		1			327
##	6	1503960366	12/04/2016	12:00	$\mathtt{AM}$		1			327
##		TotalTimeIn	nBed Activ	tyDate	Tot	talSteps	TotalDist	ance	TrackerDist	ance
##	1		346 05/0	7/2016		11992	•	7.71		7.71
##	2		346 05/0	6/2016		12159	;	3.03		8.03
##	3		346 05/0	1/2016		10602	(	6.81		6.81
##	4		346 4/3	30/2016		14673	:	9.25		9.25
##	5		346 04/	2/2016		13162	;	3.50		8.50
##	6		346 4/3	3/2016		10735	(	6.97		6.97
##		LoggedActiv	vitiesDista	ance Ve	ryAo	ctiveDist	tance Mode:	ratel	yActiveDist	ance
##	1			0			2.46			2.12
##	2			0			1.97			0.25
##	3			0			2.29			1.60
##	4			0			3.56			1.42
##	5			0			1.88			0.55
##	6			0			1.57			0.69

```
{\tt LightActiveDistance\ SedentaryActiveDistance\ VeryActiveMinutes}
## 1
                     3.13
                     5.81
                                                  0
## 2
                                                                    24
## 3
                     2.92
                                                  0
                                                                    33
                     4.27
                                                  0
                                                                    52
## 4
## 5
                     6.06
                                                  0
                                                                    25
## 6
                     4.71
                                                  0
     FairlyActiveMinutes LightlyActiveMinutes SedentaryMinutes Calories
##
## 1
                                             175
                                                               833
                                                                       1821
## 2
                        6
                                             289
                                                                       1896
                                                               754
## 3
                       35
                                             246
                                                               730
                                                                       1820
## 4
                       34
                                             217
                                                               712
                                                                       1947
                       13
## 5
                                             328
                                                               728
                                                                       1985
## 6
                                                               776
                       19
                                             217
                                                                       1797
```

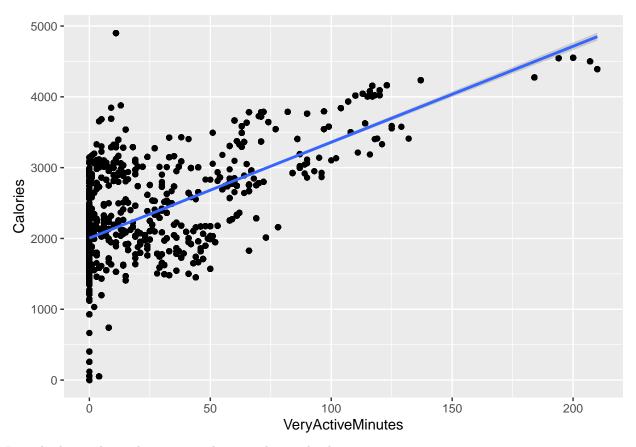
n\_distinct(combined\_sleep\_day\_data\$Id)

### ## [1] 24

combined\_sleep\_day\_data2 <- merge(sleep\_day,dailyActivity\_merged,by="Id",all=TRUE)
head(combined\_sleep\_day\_data2)</pre>

##		Id		SleepI	Dav	TotalSle	eepRec	ords Tota	alMinu	tesAsleep
##	1	1503960366 1	12/04/2016	_	-		-1	1		327
##		1503960366 1						1		327
		1503960366 1						1		327
		1503960366 1						1		327
##	5	1503960366 1	12/04/2016	12:00	AM			1		327
##	6	1503960366 1	12/04/2016	12:00	AM			1		327
##		TotalTimeInE				alSteps	Total	Distance	Track	erDistance
##	1			7/2016		11992		7.71		7.71
##	2	3	346 05/06	5/2016		12159		8.03		8.03
##	3	3	346 05/01	/2016		10602		6.81		6.81
##	4	3	346 4/30	)/2016		14673		9.25		9.25
##	5	3	346 04/12	2/2016		13162		8.50		8.50
##	6	3	346 4/13	3/2016		10735		6.97		6.97
##		LoggedActivi	itiesDistar	ice Vei	cyAc	ctiveDist	ance	Moderate	LyActi	veDistance
##	1			0			2.46			2.12
##	2			0			1.97			0.25
##	3			0			2.29			1.60
##	4			0			3.56			1.42
##	5			0			1.88			0.55
##	6			0			1.57			0.69
##		LightActiveD	Distance Se	edentai	cyAc	ctiveDist	ance	VeryActiv	/eMinu	tes
##	1		3.13				0			37
##	2		5.81				0			24
##	3		2.92				0			33
##	-		4.27				0			52
##	-		6.06				0			25
##	6		4.71				0			21
##		FairlyActive		ightly/	Acti			lentaryMir		
##	_		46			17			833	1821
##	2		6			28	39		754	1896

```
## 3
                      35
                                                             730
                                                                     1820
                                           246
## 4
                      34
                                                                     1947
                                           217
                                                             712
## 5
                                                                     1985
                       13
                                           328
                                                             728
## 6
                       19
                                           217
                                                             776
                                                                     1797
n_distinct(combined_sleep_day_data2$Id)
## [1] 33
\#\#\#Sedentary time VS Sleep Time
sedentary.lm <- lm(SedentaryMinutes ~ TotalTimeInBed, data = combined_sleep_day_data)</pre>
sedentary.lm
##
## Call:
## lm(formula = SedentaryMinutes ~ TotalTimeInBed, data = combined_sleep_day_data)
## Coefficients:
##
      (Intercept)
                   TotalTimeInBed
         921.9598
                          -0.2678
##
#And now a pearson correlation coefficient:
cor(combined_sleep_day_data$TotalTimeInBed,combined_sleep_day_data$SedentaryMinutes, method = "pearson"
## [1] -0.128011
ggplot(data = combined_sleep_day_data, aes(x=VeryActiveMinutes, y=Calories)) + geom_point() + stat_smoo
## 'geom_smooth()' using formula 'y ~ x'
```

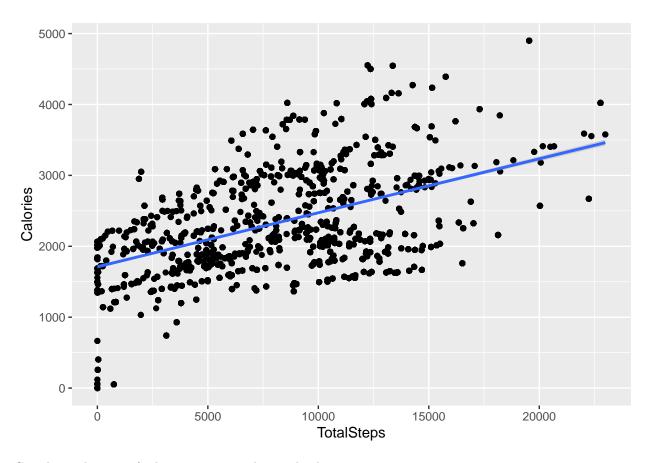


Lets check correlation between total steps taken and calories

```
lm(Calories ~ VeryActiveMinutes, data = combined_sleep_day_data)

##
## Call:
## lm(formula = Calories ~ VeryActiveMinutes, data = combined_sleep_day_data)
##
## Coefficients:
## (Intercept) VeryActiveMinutes
## 2004.36 13.55

ggplot(data = combined_sleep_day_data, aes(x=TotalSteps, y=Calories)) + geom_point() +stat_smooth(method)
## 'geom_smooth()' using formula 'y ~ x'
```

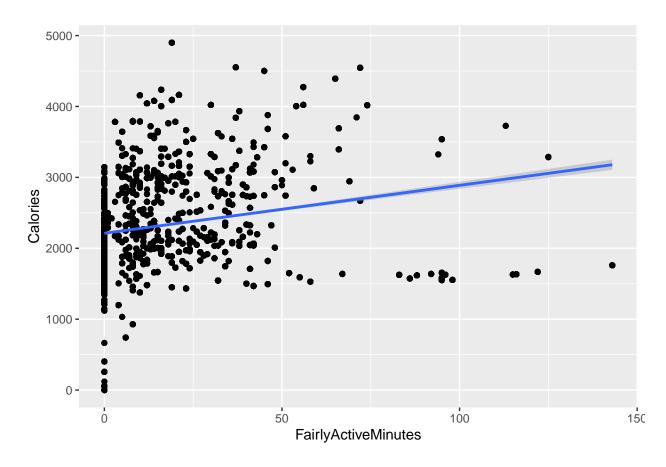


Correlation between fairly activemiutes taken and calories.

```
lm(Calories ~ TotalSteps, data = combined_sleep_day_data)
```

```
##
## Call:
## lm(formula = Calories ~ TotalSteps, data = combined_sleep_day_data)
##
## Coefficients:
## (Intercept) TotalSteps
## 1.711e+03 7.616e-02

ggplot(data = combined_sleep_day_data, aes(x=FairlyActiveMinutes, y=Calories)) + geom_point() + stat_sm
## 'geom_smooth()' using formula 'y ~ x'
```



lm(Calories ~ FairlyActiveMinutes, data = combined\_sleep\_day\_data)

```
##
## Call:
## lm(formula = Calories ~ FairlyActiveMinutes, data = combined_sleep_day_data)
##
## Coefficients:
## (Intercept) FairlyActiveMinutes
## 2211.85 6.76
```

##Conclusion I prepossessed, explored, analysed and visualized the fitbit users dataset quite deeply, and gave some marketing strategy above.

###Final Marketing Strategy

I would focus on the fact that simply collecting more data from different competitors one could see more trends.

Also the best relationship was in between very active minutes and calories so the people who are very active tend to burn the most calorie this can be a good marketing strategy.

We could also add the features that would automatically measures the calories intake based on the food and beverages that was consumed and show how much of the calories intake today was not composated by workout