

Screen Time Usage Project

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```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.3.3
```

```
library(readxl)
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.1
## v lubridate  1.9.3      v tibble    3.2.1
## v purrr      1.0.2      v tidyr     1.3.1
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
ScreenTime <- read_excel("C:/Users/Daniel Kouassi/Desktop/Spring 2024/DATA 211 -50 Data Science/Data/ScreenTime.xlsx")
```

```
ScreenTime$Worked_numeric <- ifelse(ScreenTime$Worked == "Yes", 1, 0)
```

```
workdays <- subset(ScreenTime, Worked == "Yes")
non_workdays <- subset(ScreenTime, Worked == "No")
```

```
# Perform the independent samples t-test
```

```
t.test(workdays$Daily_Screen_TimeInHours_Usage, non_workdays$Daily_Screen_TimeInHours_Usage, alternative = "less")
```

```
##
## Welch Two Sample t-test
##
## data: workdays$Daily_Screen_TimeInHours_Usage and non_workdays$Daily_Screen_TimeInHours_Usage
## t = -3.7798, df = 7.8762, p-value = 0.002773
## alternative hypothesis: true difference in means is less than 0
## 95 percent confidence interval:
##      -Inf -0.8590189
## sample estimates:
## mean of x mean of y
##  3.730769  5.425000
```