

# Pilot Data Initial Analysis

Shalini Kunapuli, Anusha Mohan, Swetha Pola

```
data <- read.csv("Social+Media+Experiment_March+24,+2021_19.23.csv")
#head(data)
```

```
### columns we are interested in right now:
## Q74_1, Q78_1, FL_4_DO, FL_27_DO

# drop everything before row 11 because those were our own trials
subset <- data[-c(1:10), c('Q74_1', 'Q1', 'Q2', 'FL_4_DO', 'FL_27_DO', 'Q72', 'Q81')]

subset <- subset[(subset$Q74_1 != ""), ]

subset
```

| ##    | Q74_1 | Q1       | Q2         | FL_4_DO | FL_27_DO | Q72                            |
|-------|-------|----------|------------|---------|----------|--------------------------------|
| ## 11 | 90    | 1st Year | Cis Woman  |         | FL_32    |                                |
| ## 12 | 60    | 1st Year | Trans Man  |         | FL_32    |                                |
| ## 13 | 80    | 1st Year | Cis Man    | FL_16   |          | bear,control,wellness,clouds   |
| ## 14 | 50    | 1st Year | Cis Woman  |         | FL_28    | control,wellness,clouds        |
| ## 15 | 90    | 1st Year | Cis Woman  |         | FL_28    | control,wellness,clouds        |
| ## 16 | 87    | 1st Year | Cis Woman  |         | FL_32    |                                |
| ## 17 | 91    | 1st Year | Cis Man    | FL_17   |          |                                |
| ## 18 | 70    | 1st Year | Non-binary |         | FL_32    |                                |
| ## 20 | 90    | 1st Year | Cis Man    | FL_16   |          | bear,control,wellness,clouds   |
| ## 22 | 80    | 1st Year | Cis Woman  |         | FL_28    | control,wellness,clouds        |
| ## 23 | 80    | 1st Year | Cis Woman  |         | FL_28    | bear,control,wellness,clouds   |
| ## 24 | 80    | 1st Year | Cis Woman  |         | FL_32    |                                |
| ## 25 | 90    | 1st Year | Cis Woman  |         | FL_28    | bear,control,wellness,clouds   |
| ## 27 | 67    | 1st Year | Cis Man    | FL_17   |          |                                |
| ## 28 | 80    | 1st Year | Cis Man    | FL_16   |          | bear,control,wellness,clouds   |
| ## 29 | 44    | 1st Year | Cis Man    | FL_17   |          |                                |
| ## 30 | 80    | 1st Year | Cis Woman  |         | FL_32    |                                |
| ## 31 | 57    | 1st Year | Cis Woman  |         | FL_28    | control,wellness,clouds        |
| ## 33 | 80    | 1st Year | Non-binary |         | FL_32    |                                |
| ## 34 | 70    | 1st Year | Cis Woman  |         | FL_28    | bear,wellness,clouds           |
| ## 35 | 46    | 1st Year | Cis Woman  |         | FL_32    |                                |
| ##    |       |          |            | Q81     |          |                                |
| ## 11 |       |          |            |         |          | bear,treatment,wellness,clouds |
| ## 12 |       |          |            |         |          | bear,treatment,wellness,clouds |
| ## 13 |       |          |            |         |          |                                |
| ## 14 |       |          |            |         |          |                                |
| ## 15 |       |          |            |         |          |                                |
| ## 16 |       |          |            |         |          | bear,treatment,wellness,clouds |
| ## 17 |       |          |            |         |          | bear,wellness                  |
| ## 18 |       |          |            |         |          | bear,treatment,wellness,clouds |
| ## 20 |       |          |            |         |          |                                |
| ## 22 |       |          |            |         |          |                                |
| ## 23 |       |          |            |         |          |                                |
| ## 24 |       |          |            |         |          | bear,treatment,wellness,clouds |
| ## 25 |       |          |            |         |          |                                |
| ## 27 |       |          |            |         |          | bear,treatment,wellness,clouds |
| ## 28 |       |          |            |         |          |                                |
| ## 29 |       |          |            |         |          | bear,treatment,wellness,clouds |
| ## 30 |       |          |            |         |          | bear,treatment,wellness,clouds |
| ## 31 |       |          |            |         |          |                                |
| ## 33 |       |          |            |         |          | bear,wellness                  |
| ## 34 |       |          |            |         |          |                                |
| ## 35 |       |          |            |         |          | bear,treatment,wellness        |

From observation of the data, it looks like:

for the FL\_27\_DO column: - treatment: FL\_32 - control: FL\_28

for the FL\_4\_DO column: - treatment: FL\_17 - control: FL\_16

```
treat <- subset[(subset$FL_27_DO == "FL_32" | subset$FL_4_DO == "FL_17"), ]  
  
control <- subset[(subset$FL_27_DO == "FL_28" | subset$FL_4_DO == "FL_16"), ]  
  
dim(treat)
```

```
## [1] 11 7
```

```
dim(control)
```

```
## [1] 10 7
```

```
dim(subset)
```

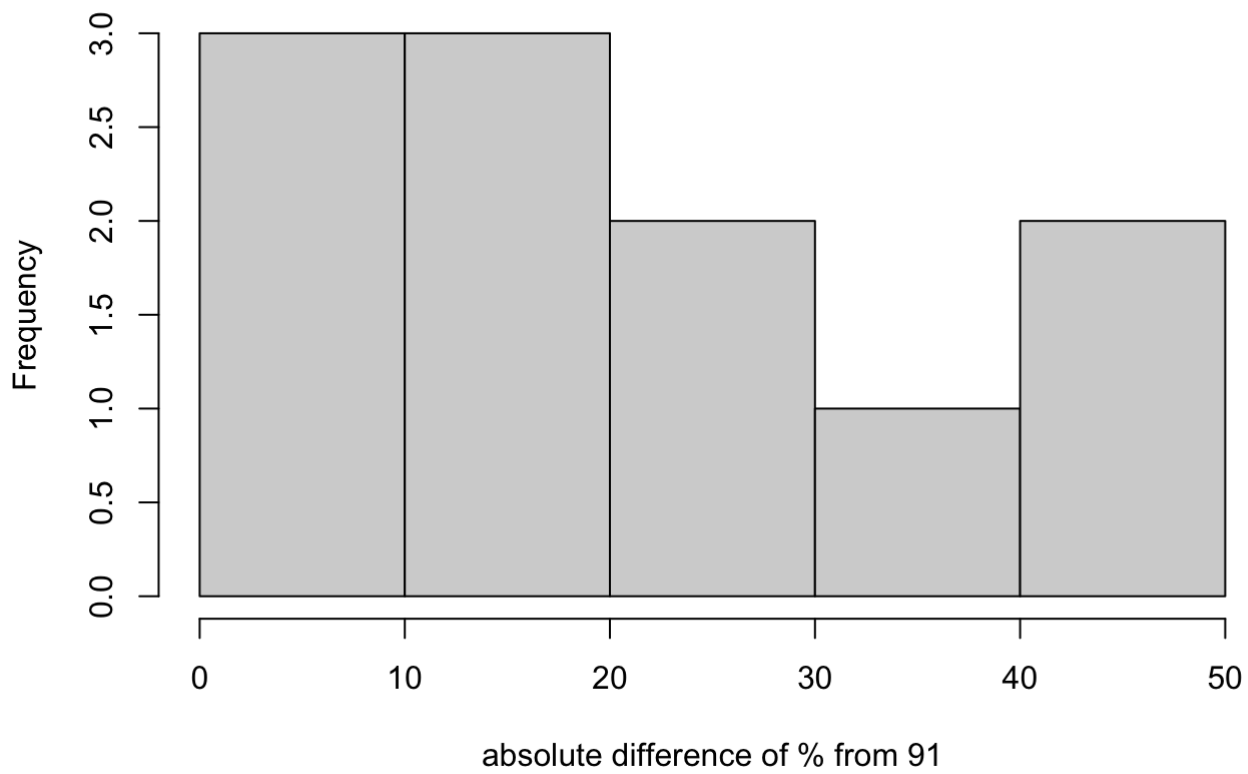
```
## [1] 21 7
```

```
treat$Q74_1 <- as.numeric(treat$Q74_1)  
control$Q74_1 <- as.numeric(control$Q74_1)  
subset$Q74_1 <- as.numeric(subset$Q74_1)
```

```
treat$outcome <- abs(91 - treat$Q74_1)  
control$outcome <- abs(91 - control$Q74_1)  
subset$outcome <- abs(91 - subset$Q74_1)
```

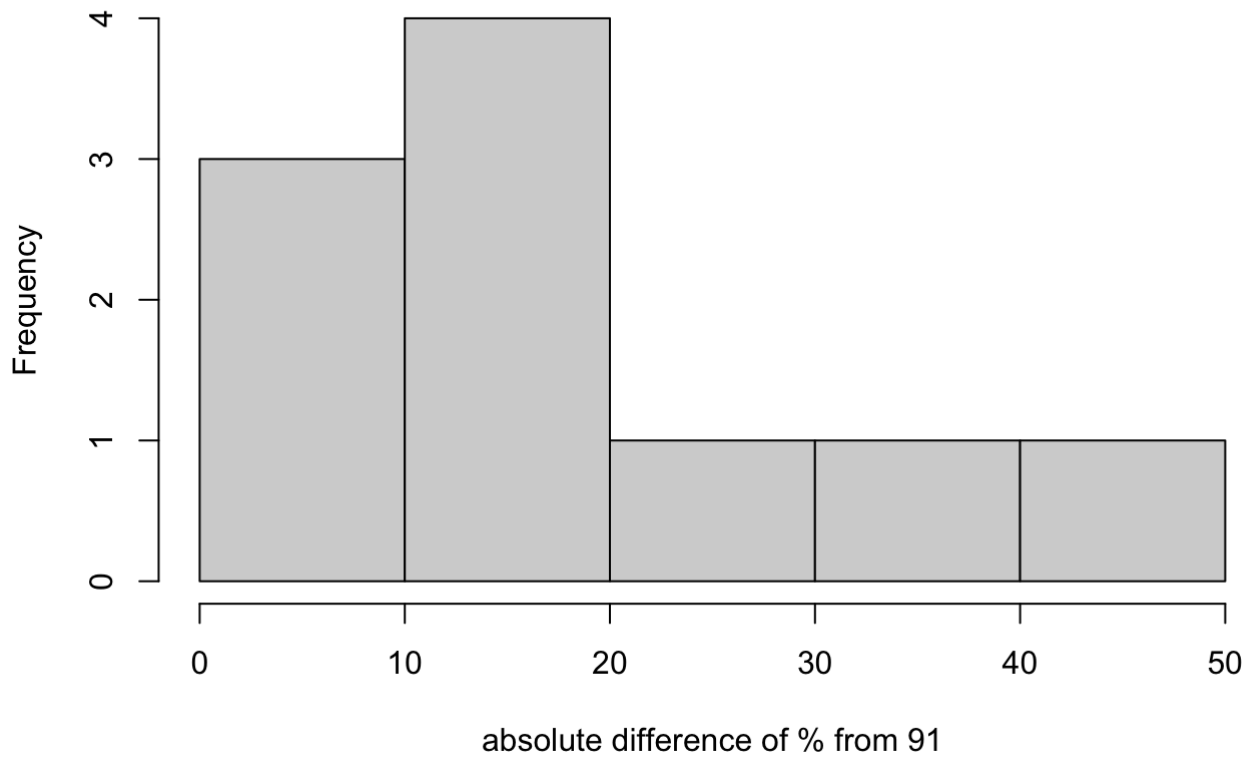
```
hist(treat$outcome, xlab = "absolute difference of % from 91", main = "Treatment Group H  
istogram")
```

## Treatment Group Histogram



```
hist(control$outcome, xlab = "absolute difference of % from 91", main = "Control Group H  
istogram")
```

## Control Group Histogram



```
hist(subset$outcome, xlab = "absolute difference of % from 91", main = "Both Treatment and Control Histogram")
```

**Both Treatment and Control Histogram**

