Data Wrangling and Analysis of Experiment Results

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Data Wrangling

```
qualtrics_data <- read.csv("data/Pilot-Quantifiers-data-trimmed.csv")

N_dropout <-
  qualtrics_data %>%
  filter(Finished=="FALSE") %>%
  nrow()

N_participants <-
    qualtrics_data %>%
  filter(Finished=="TRUE") %>%
  nrow()
```

Total of 69 took this survey. 13 did not finish the survey and dropped out. The results for 56 are reported.

```
qualtrics_data %>%
  filter(Finished=="TRUE")
```

```
##    Finished Every_day each_day all_days most_days many_days some_days
## 1      TRUE       100      100      100        90        64        15
## 2      TRUE
## 3      TRUE
## 4      TRUE       100      100      100        80        65        40
## 5      TRUE
## 6      TRUE       100      100      100        77        64        31
## 7      TRUE        72      100      100        81        80        40
## 8      TRUE
## 9      TRUE
## 10     TRUE        79       76      100        66        62        53
## 11     TRUE       100      100      100        75        65        50
## 12     TRUE
## 13     TRUE       100      100      100        71        68        31
## 14     TRUE       100      100      100        85        75        32
## 15     TRUE
## 16     TRUE
## 17     TRUE
## 18     TRUE
## 19     TRUE       100      100      100        75        50        35
## 20     TRUE       100      100      100        75        60        33
## 21     TRUE
## 22     TRUE        94       98      100        84        36        45
## 23     TRUE        99      100      100        80        88        40
## 24     TRUE
## 25     TRUE
## 26     TRUE
## 27     TRUE       100      100      100        80        51        67
```

#							
## 28	TRUE	95	95	100	75	65	30
## 29	TRUE	100	100	100	92	70	55
## 30	TRUE						
## 31	TRUE						
## 32	TRUE	100		100	70	100	20
## 33	TRUE						
## 34	TRUE	100	100	100	85	70	40
## 35	TRUE	100	100	100	80	60	30
## 36	TRUE						
## 37	TRUE						
## 38	TRUE	100	100	100	70	82	30
## 39	TRUE						
## 40	TRUE	100	100	100	81	88	13
## 41	TRUE	100	10	100	61	78	68
## 42	TRUE						
## 43	TRUE	100	100	100	54	51	33
## 44	TRUE						
## 45	TRUE						
## 46	TRUE	100	100	100	75	40	30
## 47	TRUE	100	100	100	70	70	30
## 48	TRUE						
## 49	TRUE						
## 50	TRUE	100	100	100	66	40	23
## 51	TRUE	100	100	100	60	61	20
## 52	TRUE						
## 53	TRUE	100	100	100	80	35	20
## 54	TRUE						
## 55	TRUE						
## 56	TRUE	95	100	100	70	35	40

##	several_days	a_few_days	few_days	no_days	Always	Usually	Mostly	Often
## 1	63	3	3					
## 2					91	66	73	73
## 3					96	66	64	39
## 4	24	3	5					
## 5					95	80	90	75
## 6	18	13	6					
## 7	57	6	17	0				
## 8					100	85	90	75
## 9					91	70	66	58
## 10	64	17	21					
## 11	25	15	10					
## 12					90	80	70	65
## 13	5	9	14					
## 14	7	6	13					
## 15					93	85	67	54
## 16					81	39	71	44
## 17					85	70	61	22
## 18					98	70	68	55
## 19	35	15	25					
## 20	17	10	10					
## 21					100	70	65	40
## 22	8	7	12					
## 23	35	11	27	0				
## 24					85	68	77	73

## 25					82	61	70	62
## 26					96	68	69	49
## 27	30	25	30					
## 28	12	4	8					
## 29	14	7	3					
## 30					90	75	80	60
## 31					72	10	65	40
## 32	18			100				
## 33					100	80	80	50
## 34	20	5	5	0				
## 35	10	20	20	0				
## 36					97	64	74	48
## 37					92	91	100	72
## 38	4	5	6					
## 39					96	67	65	42
## 40	37	13	20					
## 41	6	11	25	0				
## 42					6	18	100	18
## 43	42	8	37					
## 44					100	68	80	67
## 45					100	75	90	85
## 46	15	10	10					
## 47	40	20	20					
## 48					82	53	59	38
## 49					100	85	100	50
## 50	5	3	12					
## 51	16	6	9					
## 52					100	80	80	65
## 53	10	5	5					
## 54					96	85	85	80
## 55					100	77	80	42
## 56	10	6	20					

##	Frequently	Sometimes	Occasionally	Seldom	Rarely	Infrequently	Never
## 1							
## 2	80	23	29	4	20	20	2
## 3	49	29	20	10	8	32	1
## 4							
## 5	90	40	20	10	15	80	0
## 6							
## 7							
## 8	75	50	30	15	15	30	
## 9	70	50	33	8	17	20	0
## 10							
## 11							
## 12	70	30	30	25	10	25	
## 13							
## 14							
## 15	82	26	23	9	13	56	
## 16	67	38	23	7	11	23	2
## 17	51	24	20	5	20	33	
## 18	60	38	30	25	15	30	2
## 19							
## 20							
## 21	85	40	20	10	15	20	

```
## 22
## 23
## 24          76          40          13     5     11          22     0
## 25          75          26          19     7      8          26     6
## 26          75          38          10    17     21          23     2
## 27
## 28
## 29
## 30          75          25          25    10     20          20     0
## 31          20          38          30     2     60          30     5
## 32
## 33          65          40          30     5     15          30
## 34
## 35
## 36          47          23          13    12     10          16     1
## 37          83          42          29    15    100          29     4
## 38
## 39          50          30          11    10      4          19     0
## 40
## 41
## 42         100          45          21    28      0         100    28
## 43
## 44          77          32          18     6     12          20
## 45          80          25          30    10      8          15
## 46
## 47
## 48          61          44          33    24     27          74
## 49         100          41           5    20     10          72
## 50
## 51
## 52          70          28          15     5     10          30     0
## 53
## 54          70          50          45    15     30          25     2
## 55          80          34          20     8     18          24
## 56
```
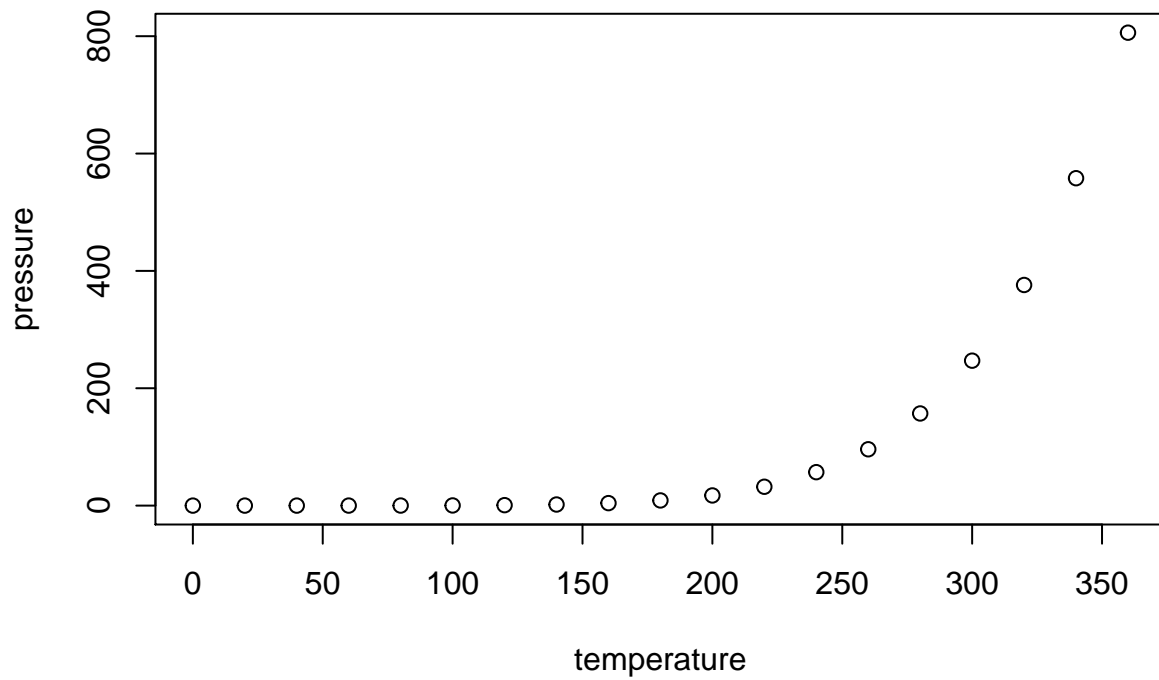
Analysis

You can also embed plots, for example:

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.