# HW 1: Employee Survey Data Summary

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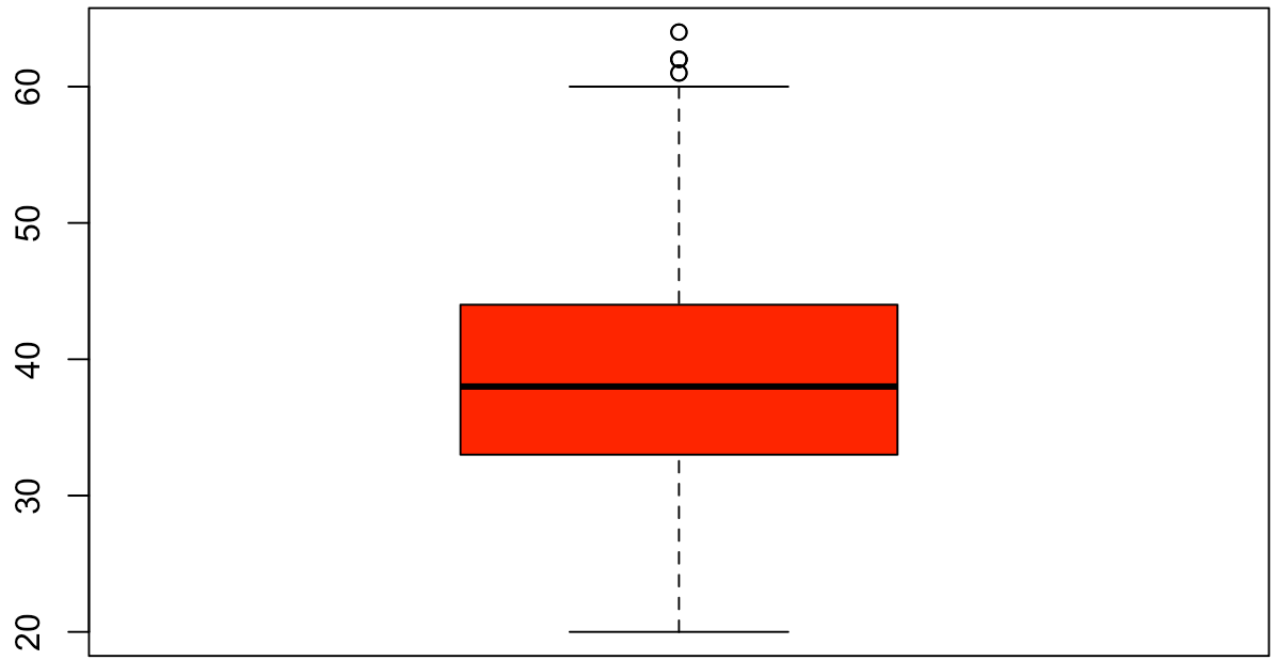
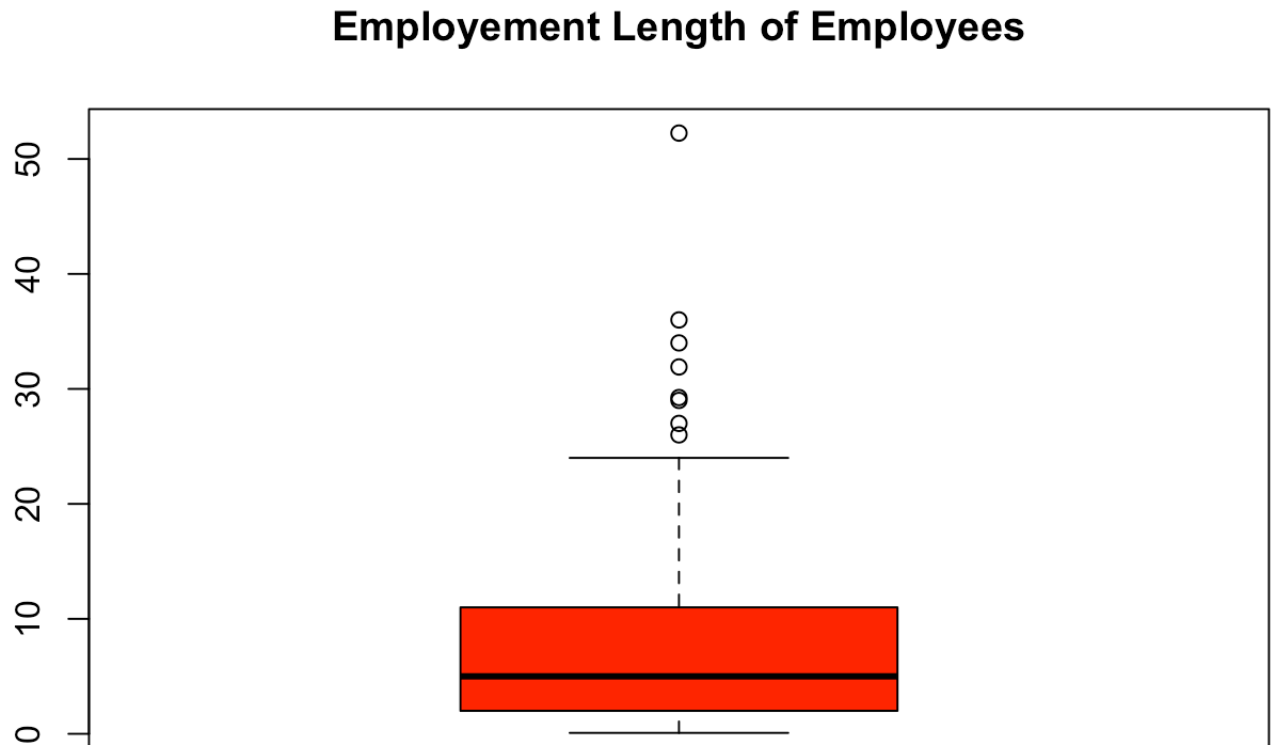
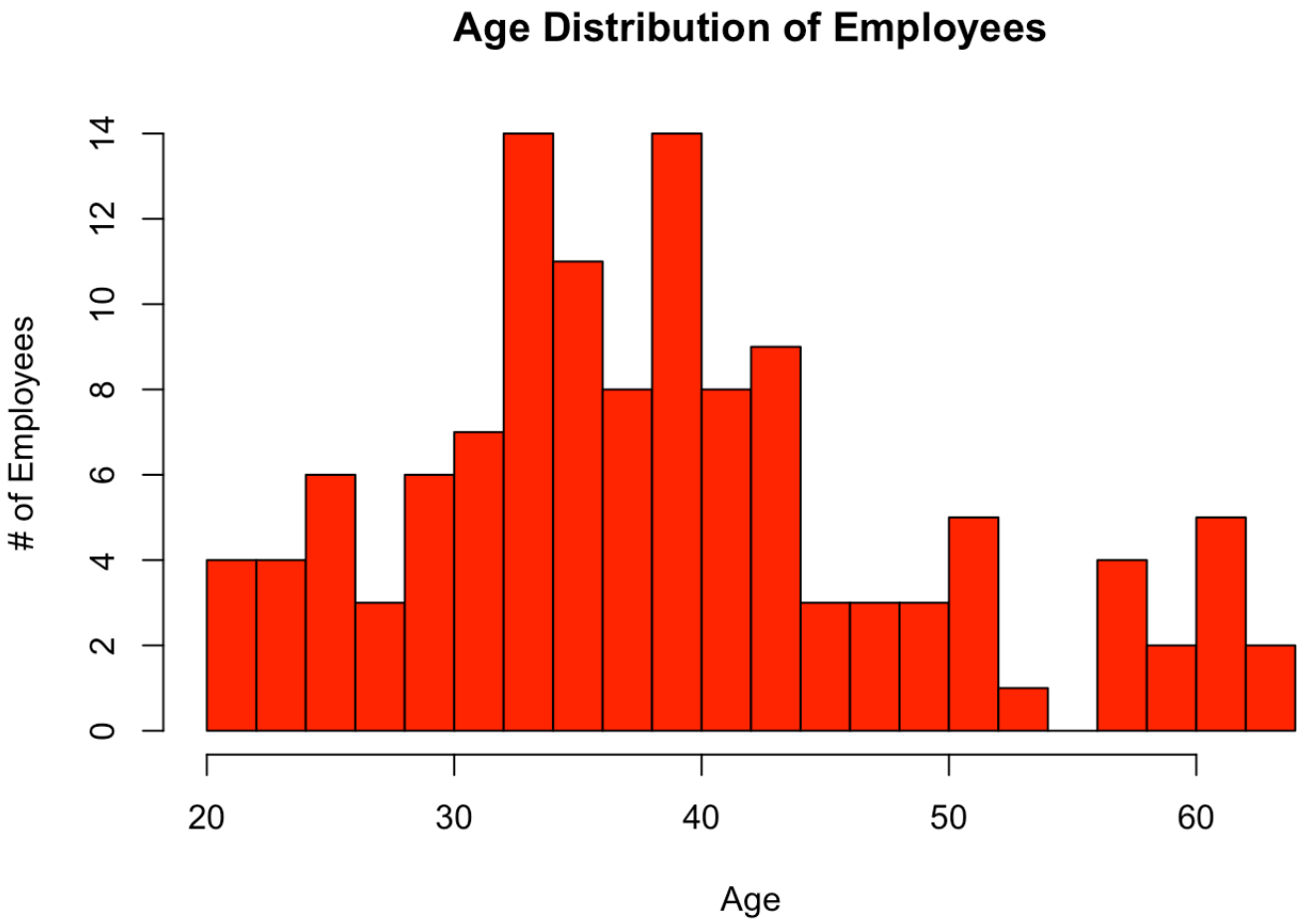
```
## 'data.frame':    122 obs. of  11 variables:
##  $ V1 : int  35 33 23 60 35 34 61 59 37 30 ...
##  $ V2 : int  1 1 1 1 1 2 2 1 2 1 ...
##  $ V3 : int  2 2 1 1 2 2 1 2 1 1 ...
##  $ V4 : int  4 3 1 1 1 1 1 5 5 5 ...
##  $ V5 : num  3 9 1.5 20 3 6 0.75 1.5 3 5 ...
##  $ V6 : int  1 5 1 3 3 1 5 2 4 2 ...
##  $ V7 : int  2 2 2 2 2 2 3 1 3 2 ...
##  $ V8 : int  1 1 2 2 1 2 2 2 1 1 ...
##  $ V9 : int  2 2 1 1 2 2 2 2 2 1 ...
##  $ V10: int  5 2 5 1 4 4 4 4 2 2 ...
##  $ V11: int  2 1 2 1 2 4 1 1 3 2 ...
```

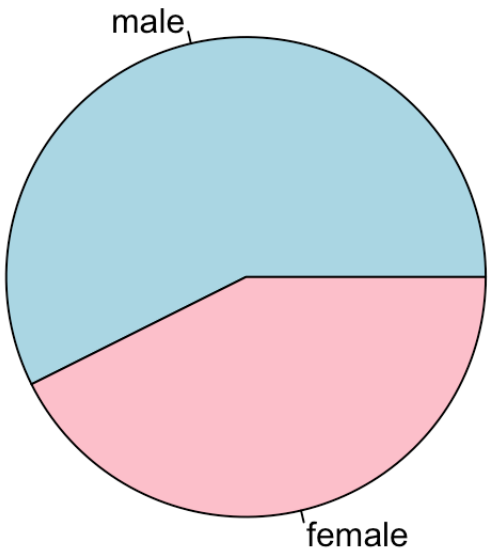
```
##       Age       Gender Satisfaction_Rating Job_Priority Years_Employed
##  Min.   :20.0   1:70   1:65                1:26         Min.   : 0.080
##  1st Qu.:33.0   2:52   2:44                2: 8         1st Qu.: 2.000
##  Median :38.0          3: 6                3: 6         Median : 5.000
##  Mean   :39.1          4: 7                4:18         Mean   : 8.224
##  3rd Qu.:44.0                              5:64         3rd Qu.:11.000
##  Max.   :64.0                                           Max.   :52.250
##  Promotion_Outlook Autonomy_Rating Budget_Involvement Pride_Rating
##  1:21              1:17            1:67               1:37
##  2:28              2:57            2:55               2:75
##  3: 6              3:45                               3: 9
##  4:29              4: 3                               4: 1
##  5:38
##
##  Loyalty_Rating Climate_Rating
##  1:16           1:51
##  2:30           2:49
##  3: 1           3:19
##  4:57           4: 3
##  5:18           5: 0
##
```


Age of Employees
20
30
40
50
60

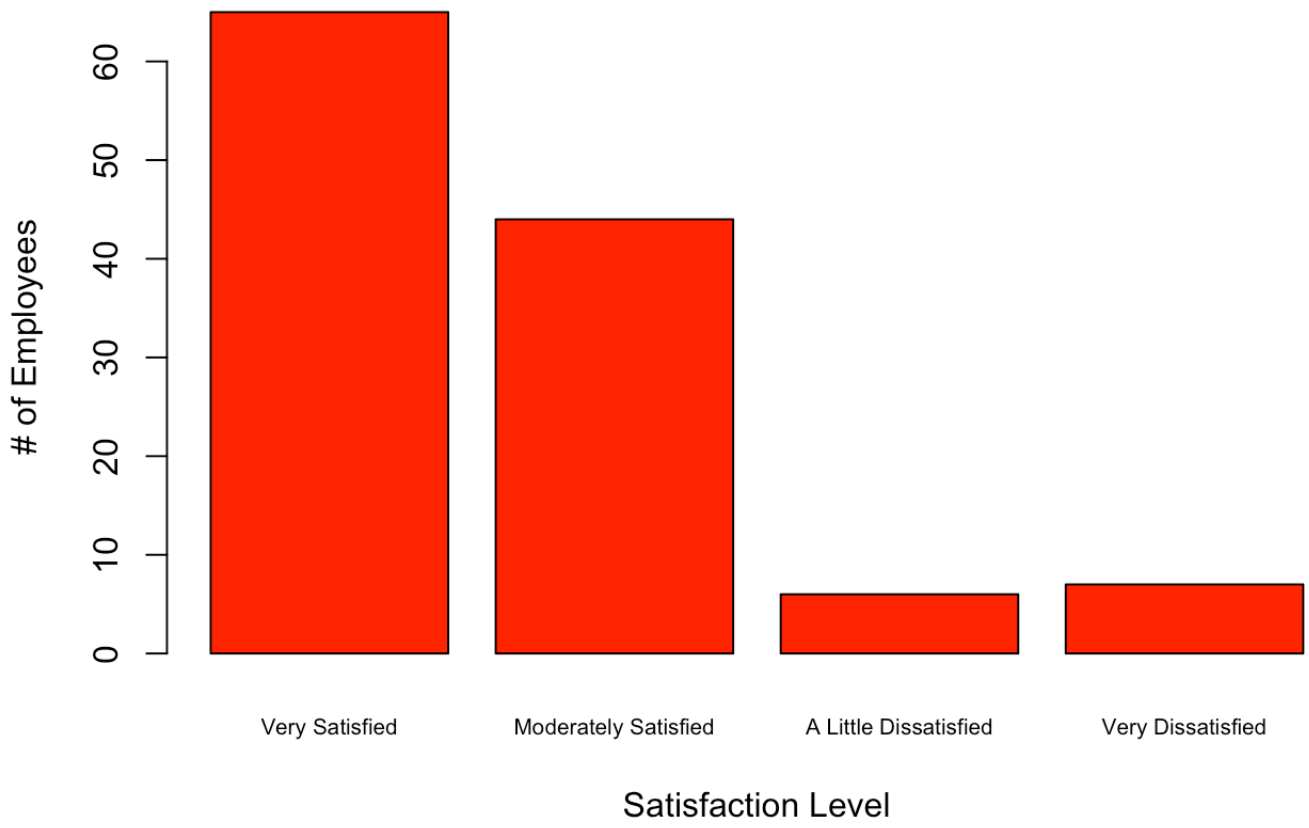

Employement Length of Employees
0
10
20
30
40
50



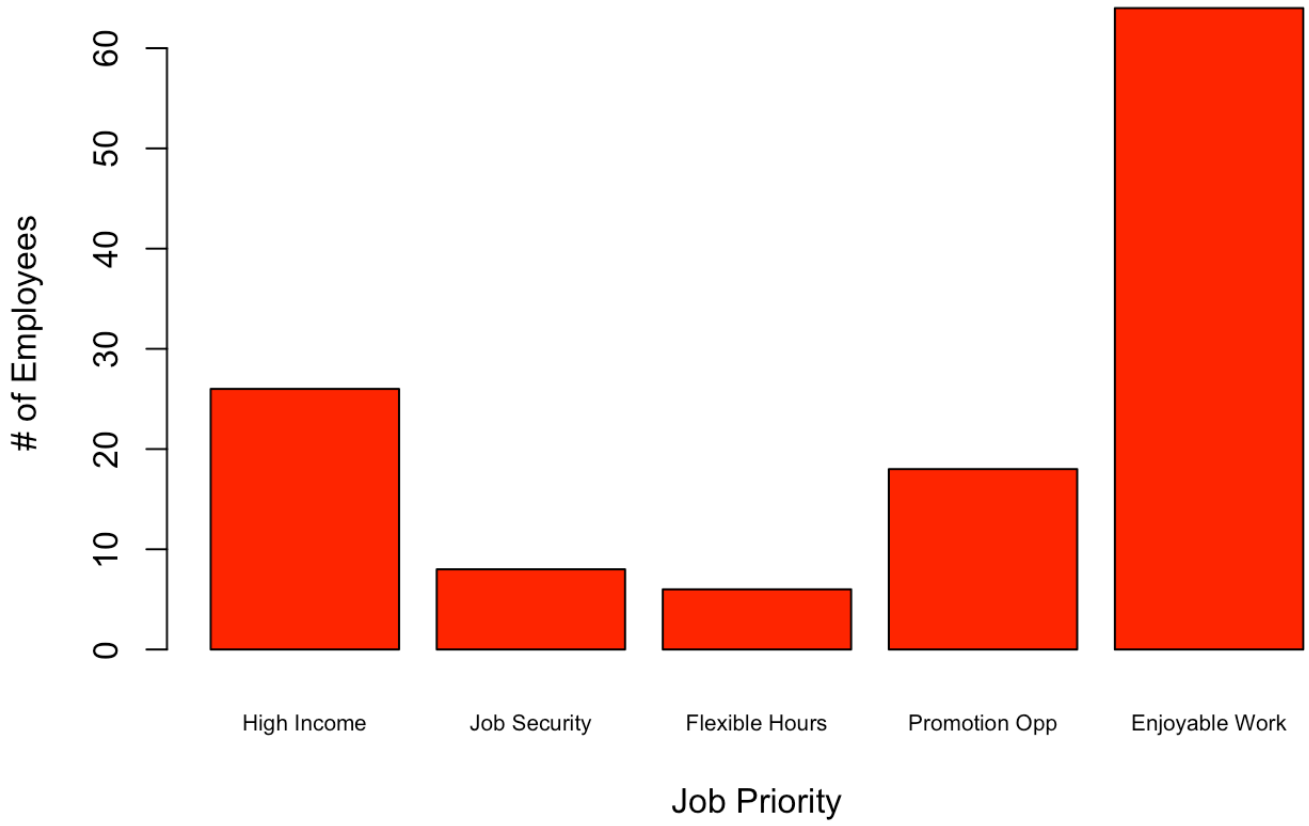

```
## [1] "The histogram above shows that the ages of the randomly sampled employees are
skewed slightly to the right, with the median age around 38. There are a few outliers
pulling the mean up, with the oldest respondent being 64."
```



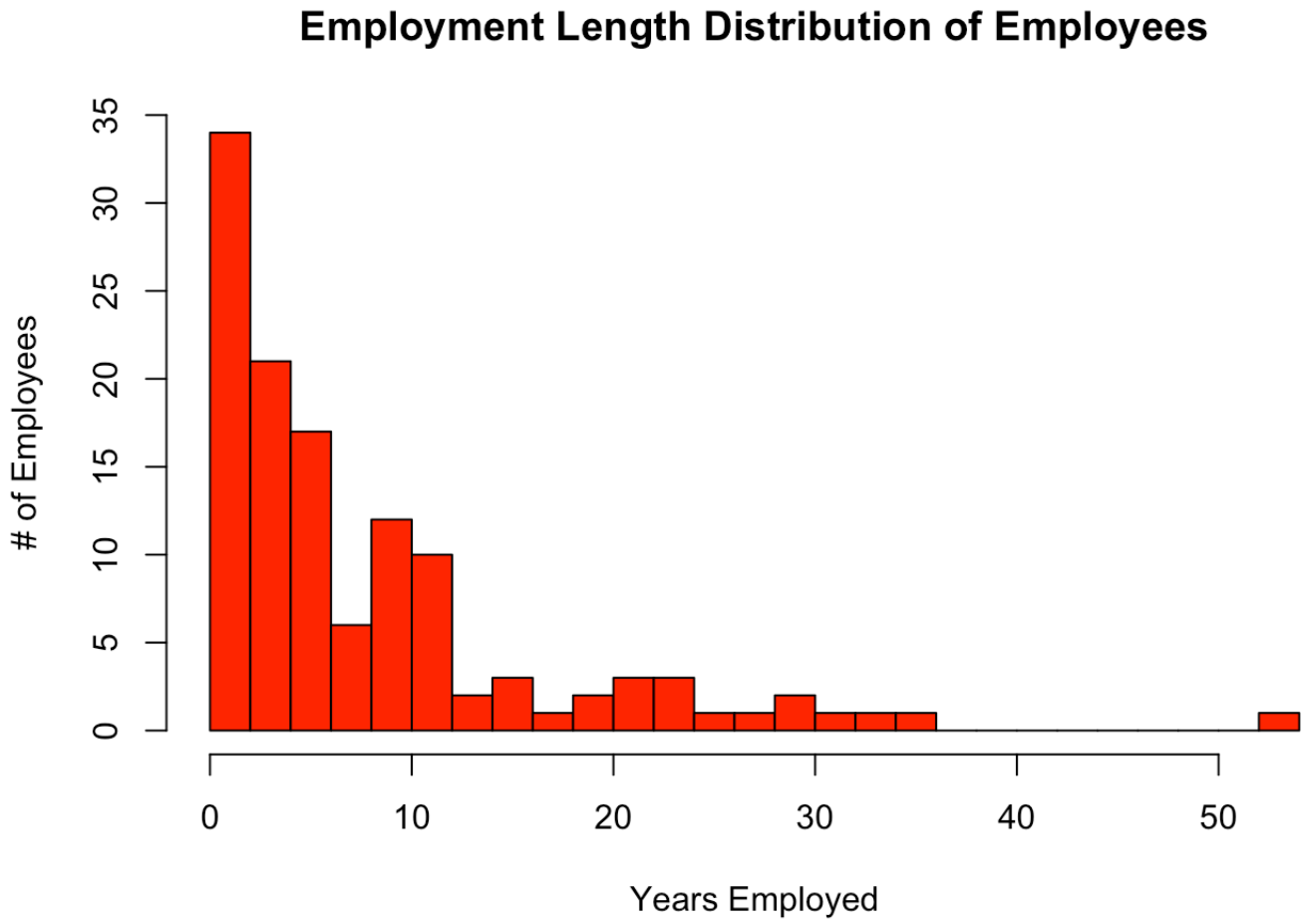

```
## [1] "The piechart above shows that a majority of the randomly sampled employees ar
e male, approximately 57%. A larger sample should be surveyed to determine if this sa
mple is indicative of the firm as a whole."
```



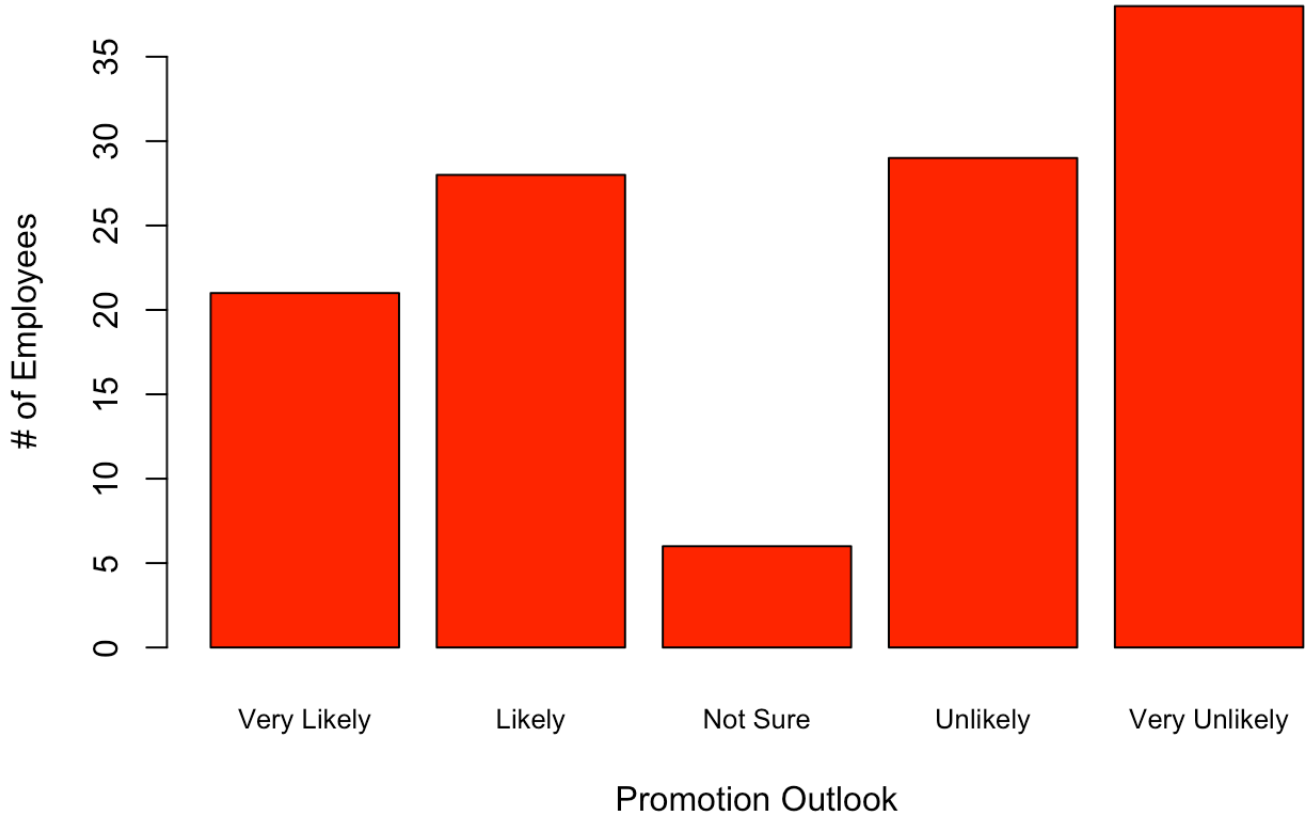

```
## [1] "The barchart above shows that a majority of the randomly sampled employees ar
e very satisfied with their job. This suggests high levels of satisfaction at the fir
m as a whole."
```



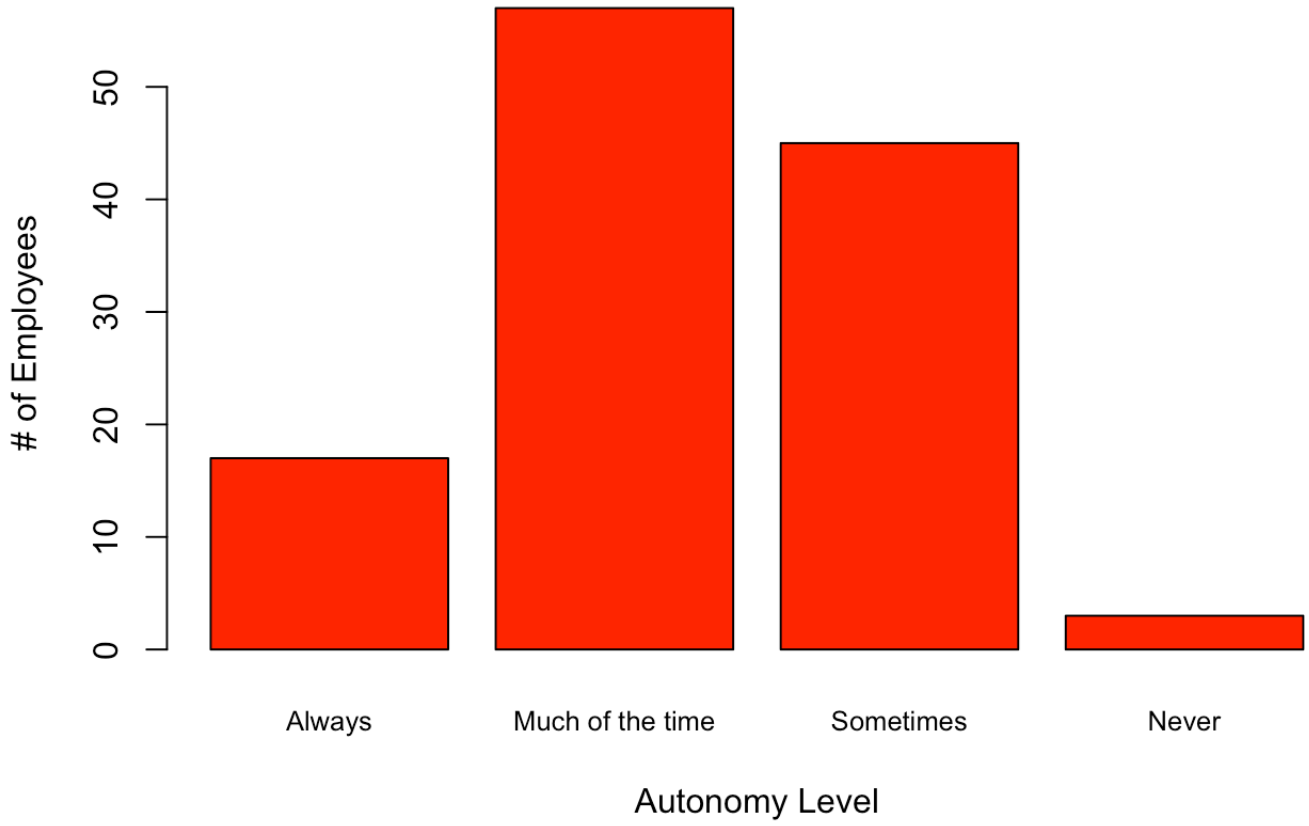

```
## [1] "The barchart above shows that a majority of the randomly sampled employees fe
el that enjoying their work is most important to them, with the next priority being h
igh income. This suggests a similar sentiment across the firm as a whole."
```



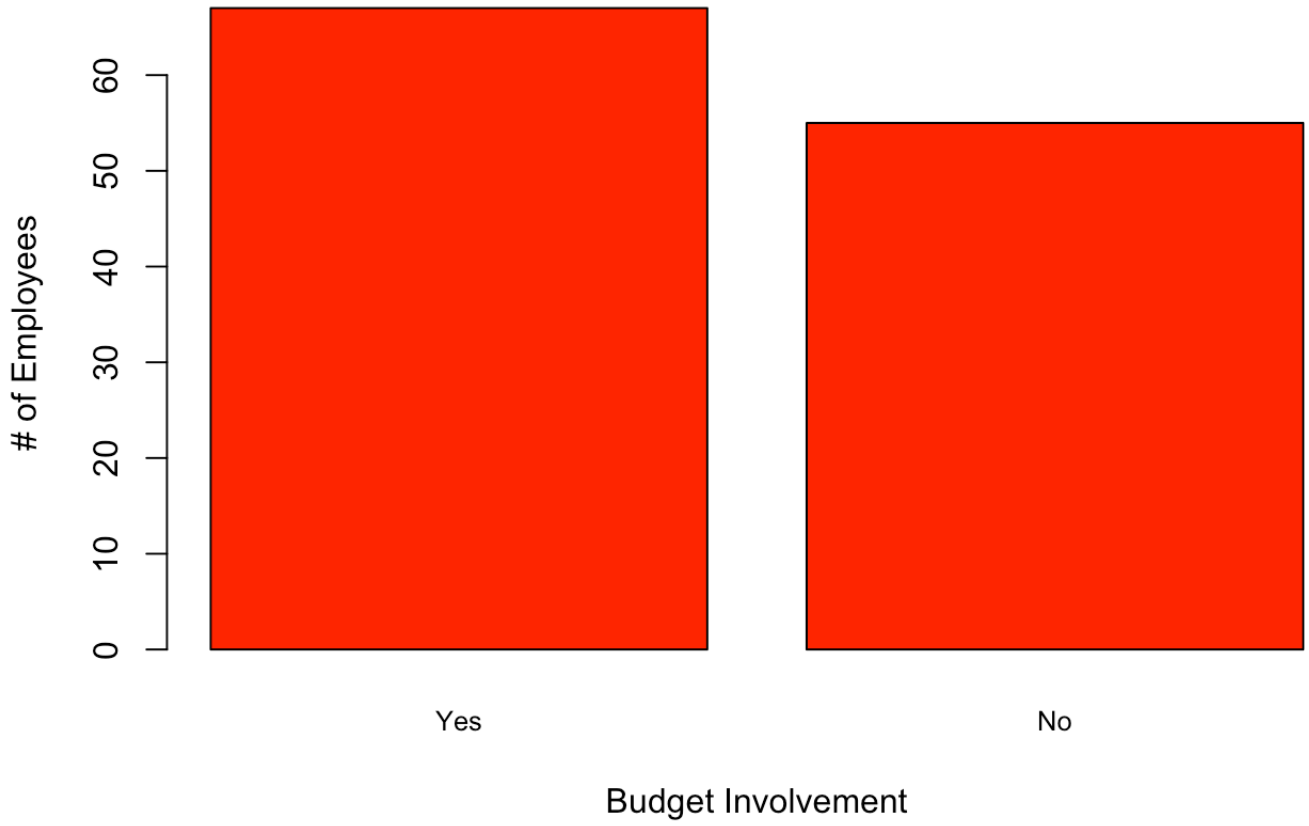

```
## [1] "The histogram above shows that a majority of the randomly sampled employees h
ave been at the firm for 5 years or less. The data is skewed to the right. There are
a few outliers pulling the mean up, with the longest employment length being 52 year
s."
```




```
## [1] "The barchart above shows that a majority of the randomly sampled employees be
lieve their chance of recieving a promotion is very unlikely, with about an equal res
ponse rate of likely and unlikely. This suggests a range of opinions regarding the li
kelihood of promotion at the firm as a whole."
```

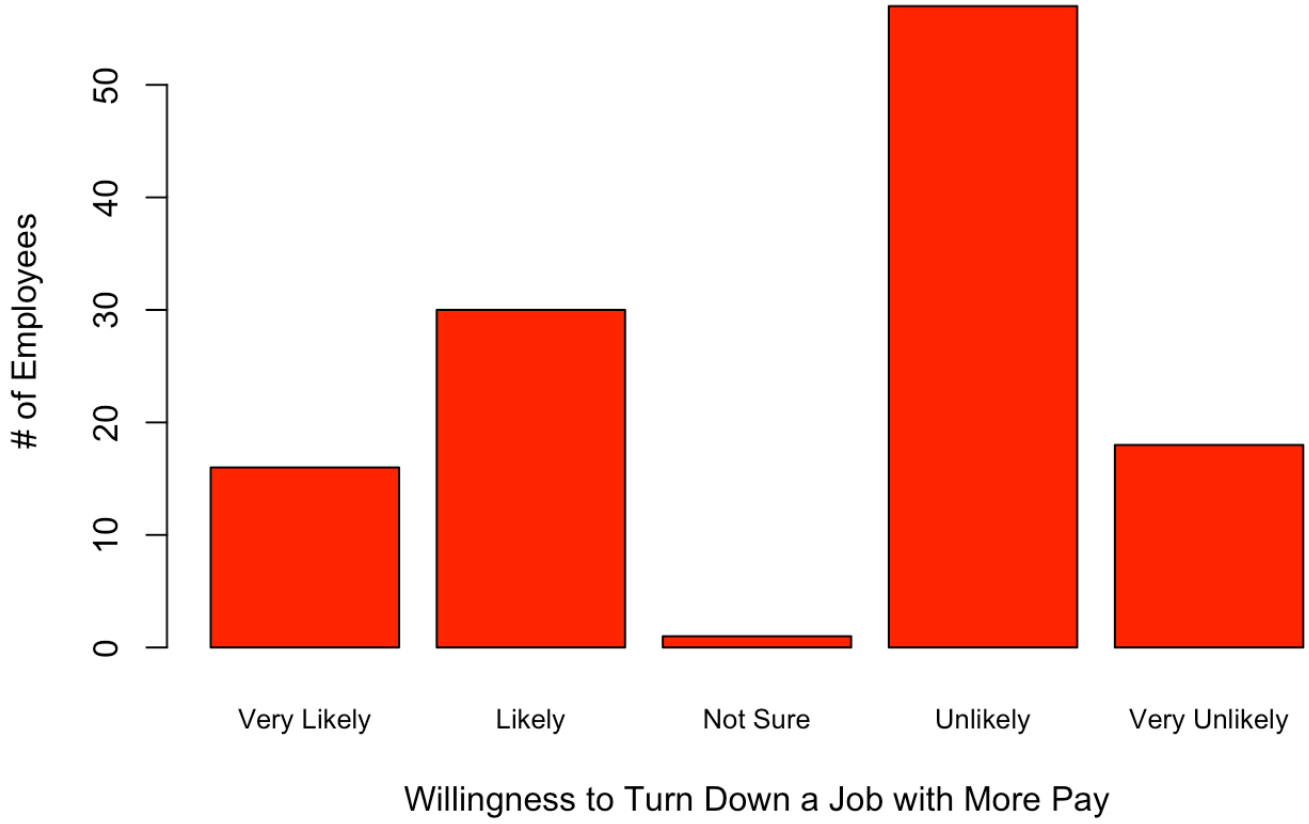



```
## [1] "The barchart above shows that a majority of the randomly sampled employees fe
el that they take part in decision-making that affects their work. This suggests a si
milar sentiment across the firm as a whole."
```

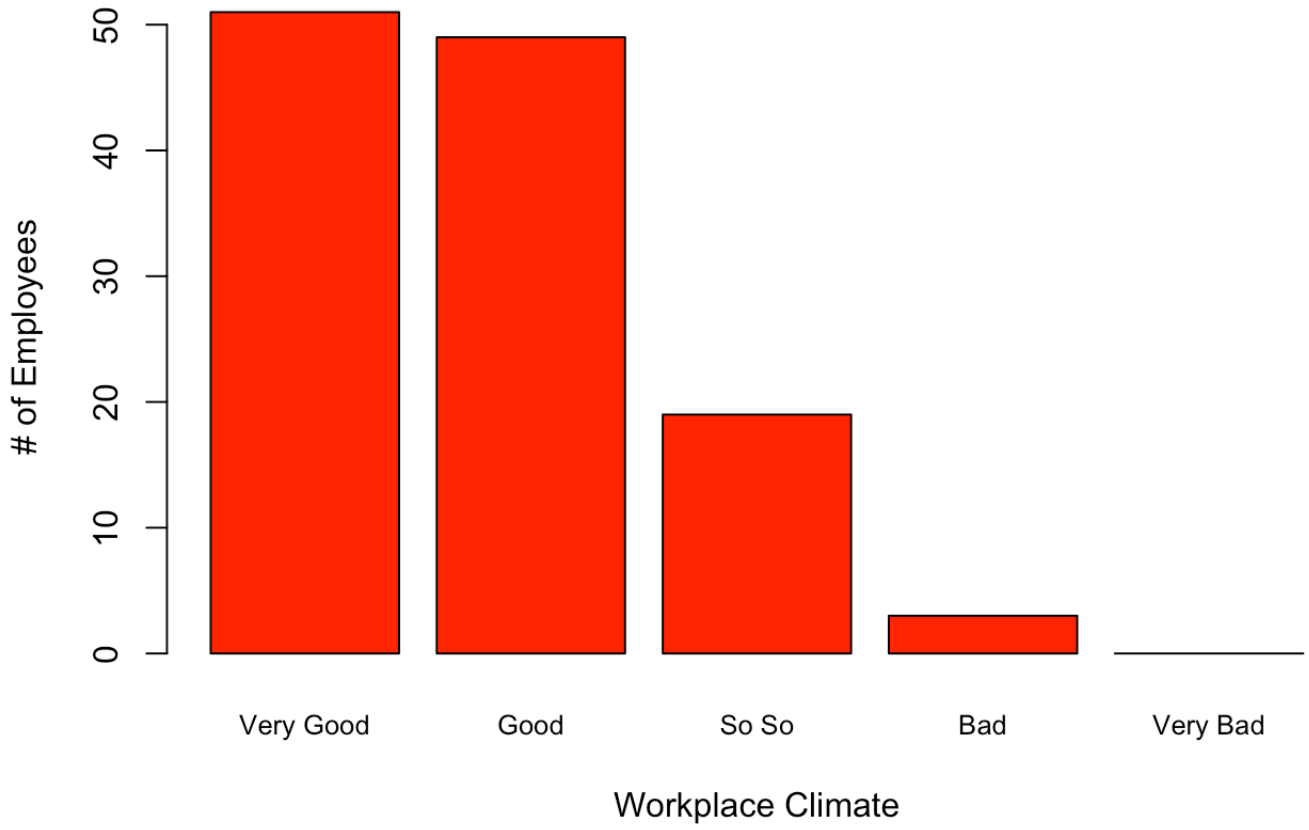



```
## [1] "The barchart above shows that a slight majority of the randomly sampled emplo
yees are involved in budgetary decisions. This may suggest a similar situation across
the firm as a whole, but since the numbers are close, more data may need to be collec
ted."
```

```
## [1] "The barchart above shows that a majority of the randomly sampled employees fe
el somewhat proud to work for the firm. This suggests a similar sentiment across the
firm as a whole, which may be a factor to examine more closely."
```

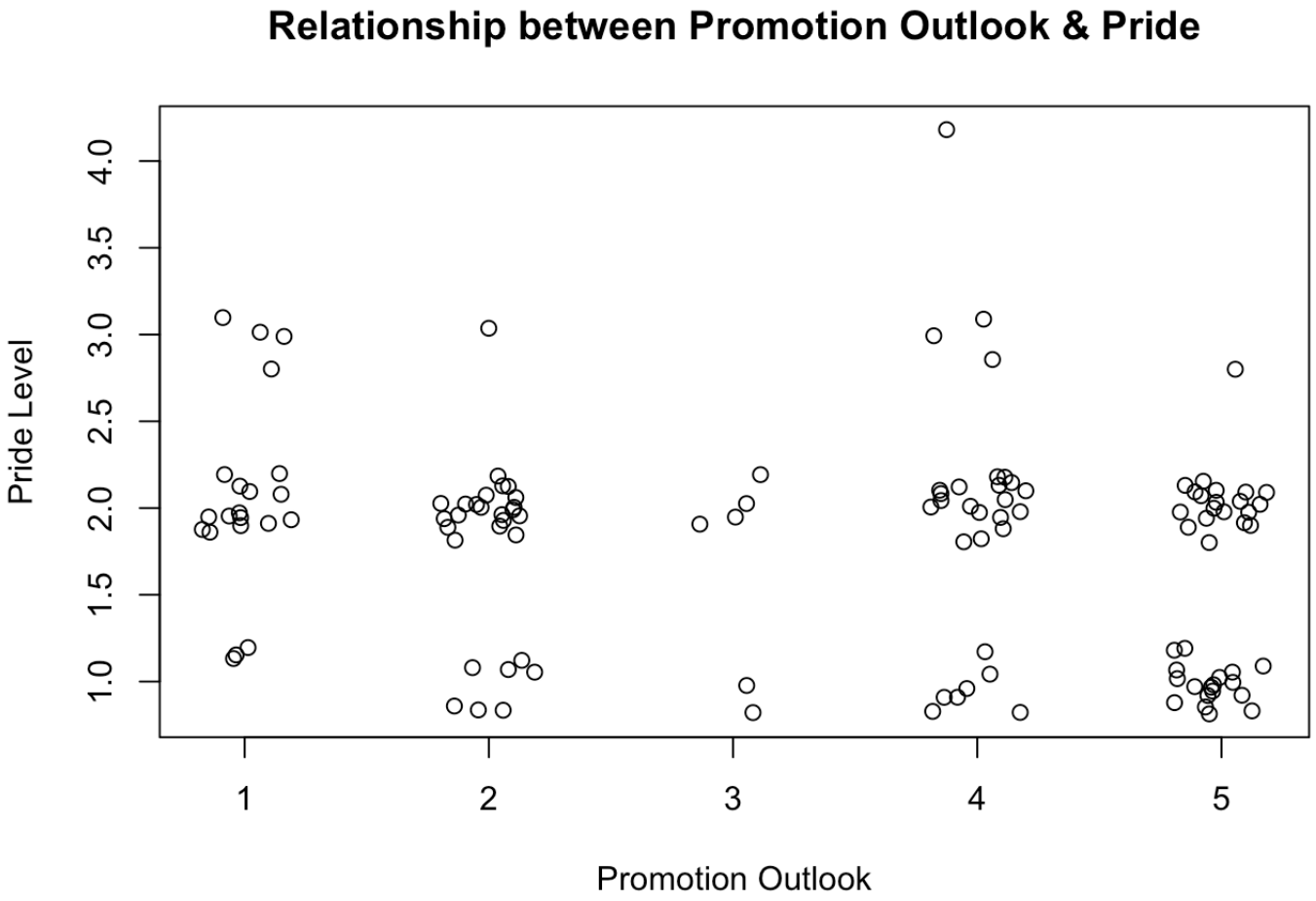



```
## [1] "The barchart above shows that a majority of the randomly sampled employees wo
uld not turn down a job with more pay if it means leaving the firm. This suggests a s
imilar sentiment across the firm as a whole, which may be a factor to examine more cl
osely."
```

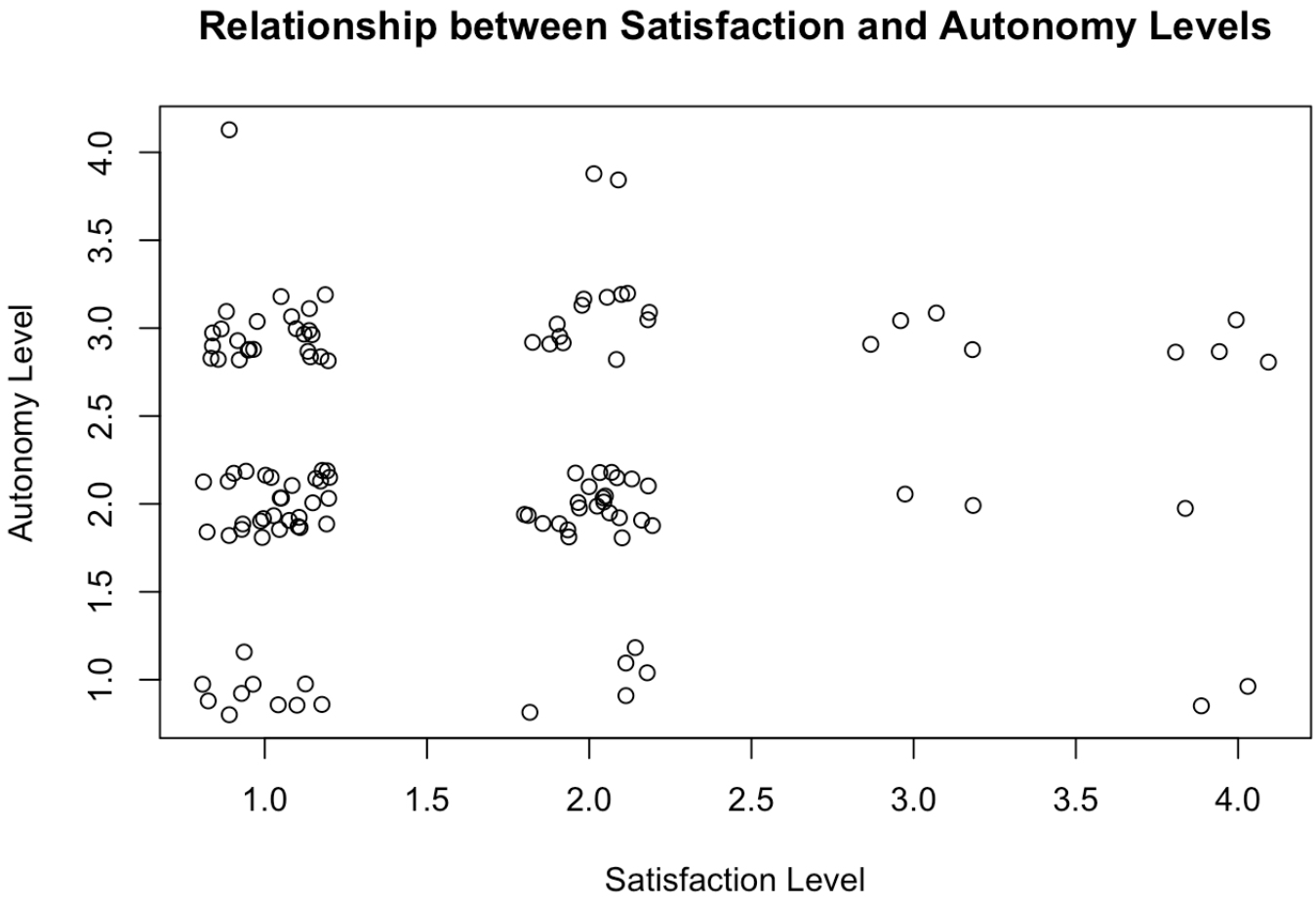



```
## [1] "The barchart above shows that a majority of the randomly sampled employees be
lieve the workplace climate is very good and good. This suggests a similar sentiment
across the firm as a whole. However, almost 20% of respondents answered so-so and ba
d, which may be a factor to examine more closely."
```

```
## [1] "The scatterplot above shows a positive relationship between age and employmen
t length. In other words, as employees age, they are more likely to have a longer ten
ure with the firm."
```




```
## [1] "The scatterplot above shows that most employees are only somewhat proud to wo
rk at the firm (2), regardless of their likelihood of being promoted. Interestingly,
there is a cluster in the bottom right corner that indicates a subsect of employees t
hat are very proud to work at the firm (1) but have little likelihood of being promot
ed (5). This is a group of employees to potentially explore further."
```




```
## [1] "The scatterplot above shows that most employees who are satisfied (1) and mod
erately satisfied (2) with their jobs also have autonomy much of the time (2) or some
times (3). There are some noticeable outliers which may be a result of personal exper
iences or preferences."
```