

# Descriptive2.R

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```
# Descriptive2.R
# Descriptive statistics for the development time data

# Load necessary libraries
library(ggplot2)
library(psych)

##
## Attaching package: 'psych'

## The following objects are masked from 'package:ggplot2':
##
##      %+%, alpha

# Read in data set
devel_time <- read.table(header=T,colClasses=c("numeric","numeric"),text="
time_pp time_adult
34 65
31 48
29 NA
30 55
32 62
32 47
37 44
34 53
31 NA
37 53
32 NA
31 42
29 NA
35 NA
39 NA
34 43
32 NA
34 NA
34 113
32 47
32 100
41 NA
32 49
29 NA
32 53
39 NA
39 84
35 NA
32 NA
35 74
36 43
```

31	50
34	NA
35	44
35	116
34	NA
34	NA
37	58
36	101
32	67
34	68
34	61
28	66
31	84
30	68
28	106
28	42
31	58
31	42
28	68
32	55
32	NA
30	101
30	99
39	43
30	80
28	52
27	50
28	110
28	42
30	NA
28	66
28	147
27	NA
37	135
30	119
29	113
30	103
30	95
27	87
29	89
33	NA
27	76
27	NA
30	NA
30	49
30	81
29	85
27	NA
31	104
27	73
27	110
27	NA
31	99

```

31 55
31 59
27 NA
30 93
27 NA
28 84
28 93
29 NA
29 108
31 103
33 NA
29 92
")

```

```

# Print the data
devel_time

```

```

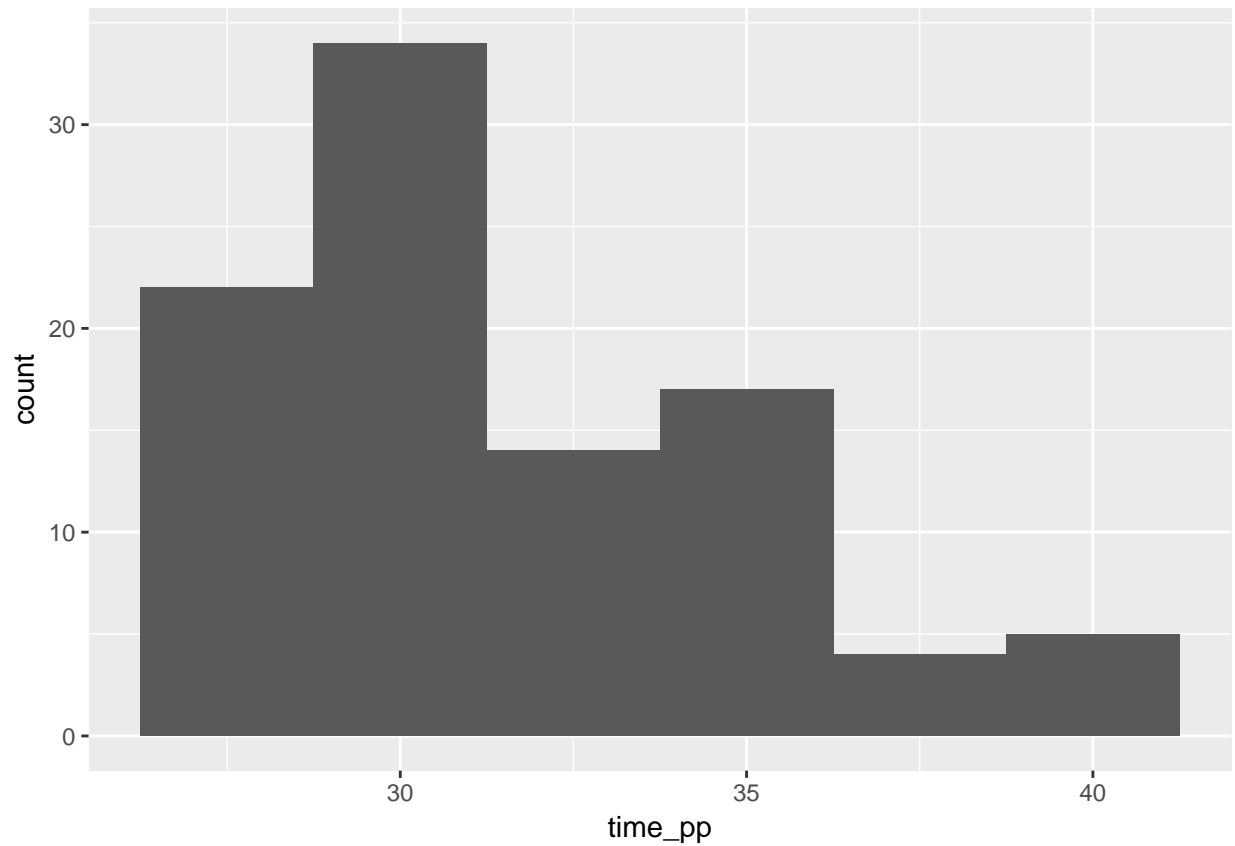
##      time_pp time_adult
## 1         34         65
## 2         31         48
## 3         29         NA
## 4         30         55
## 5         32         62
## 6         32         47
## 7         37         44
## 8         34         53
## 9         31         NA
## 10        37         53
## 11        32         NA
## 12        31         42
## 13        29         NA
## 14        35         NA
## 15        39         NA
## 16        34         43
## 17        32         NA
## 18        34         NA
## 19        34        113
## 20        32         47
## 21        32        100
## 22        41         NA
## 23        32         49
## 24        29         NA
## 25        32         53
## 26        39         NA
## 27        39         84
## 28        35         NA
## 29        32         NA
## 30        35         74
## 31        36         43
## 32        31         50
## 33        34         NA
## 34        35         44
## 35        35        116
## 36        34         NA

```

## 37	34	NA
## 38	37	58
## 39	36	101
## 40	32	67
## 41	34	68
## 42	34	61
## 43	28	66
## 44	31	84
## 45	30	68
## 46	28	106
## 47	28	42
## 48	31	58
## 49	31	42
## 50	28	68
## 51	32	55
## 52	32	NA
## 53	30	101
## 54	30	99
## 55	39	43
## 56	30	80
## 57	28	52
## 58	27	50
## 59	28	110
## 60	28	42
## 61	30	NA
## 62	28	66
## 63	28	147
## 64	27	NA
## 65	37	135
## 66	30	119
## 67	29	113
## 68	30	103
## 69	30	95
## 70	27	87
## 71	29	89
## 72	33	NA
## 73	27	76
## 74	27	NA
## 75	30	NA
## 76	30	49
## 77	30	81
## 78	29	85
## 79	27	NA
## 80	31	104
## 81	27	73
## 82	27	110
## 83	27	NA
## 84	31	99
## 85	31	55
## 86	31	59
## 87	27	NA
## 88	30	93
## 89	27	NA
## 90	28	84

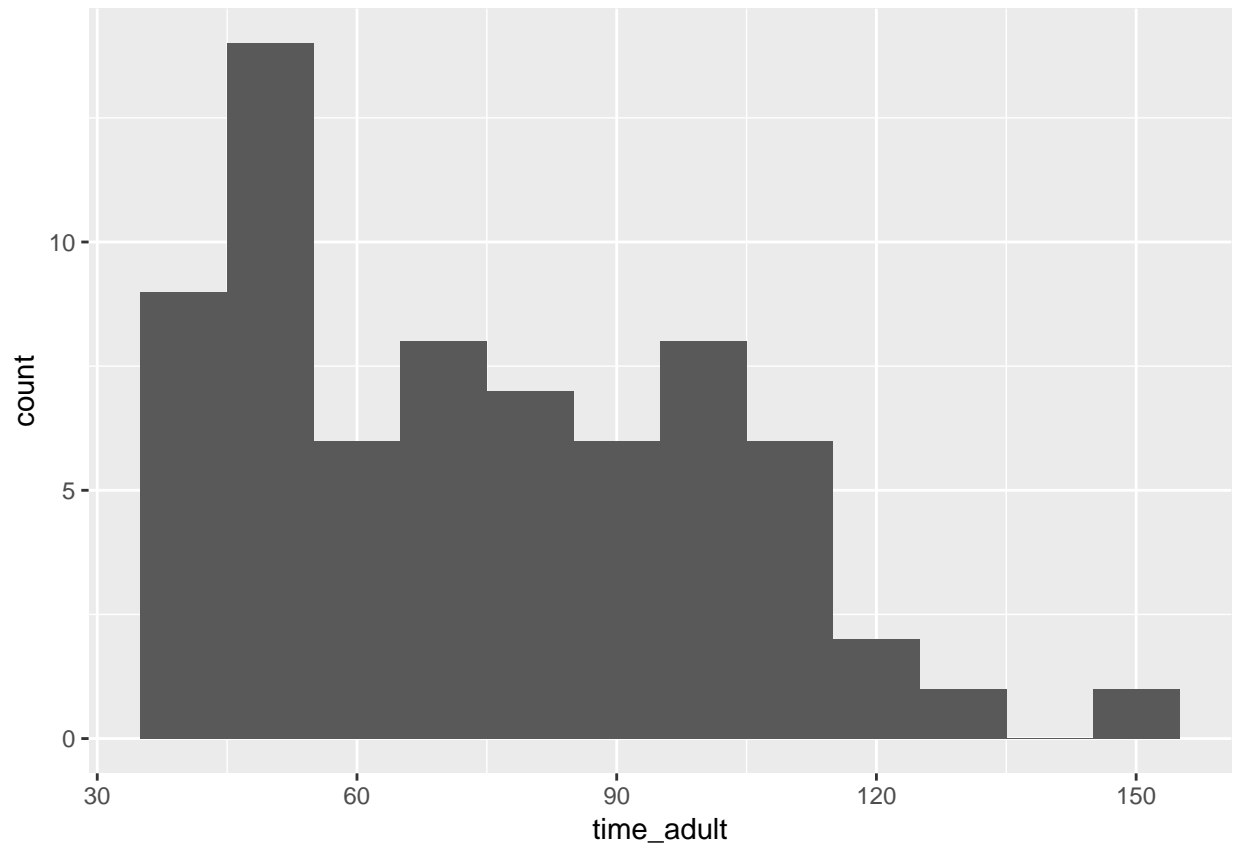
```
## 91      28      93
## 92      29      NA
## 93      29     108
## 94      31     103
## 95      33      NA
## 96      29      92
```

```
# Graphics using ggplot2
ggplot(devel_time,aes(time_pp))+
geom_histogram(binwidth=2.5)
```



```
ggplot(devel_time,aes(time_adult))+
geom_histogram(binwidth=10)
```

```
## Warning: Removed 28 rows containing non-finite values (stat_bin).
```



```
# Descriptive statistics
```

```
attach(devel_time)
```

```
describe(time_pp)
```

```
## vars n mean sd median trimmed mad min max range skew kurtosis se
## X1 1 96 31.35 3.33 31 31.05 3.71 27 41 14 0.73 -0.08 0.34
```

```
describe(time_adult)
```

```
## vars n mean sd median trimmed mad min max range skew kurtosis
## X1 1 68 75.35 26.35 68 73.7 30.39 42 147 105 0.49 -0.73
## se
## X1 3.19
```

```
detach(devel_time)
```