Correa Batting

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

Including Plots

You can also embed plots, for example:
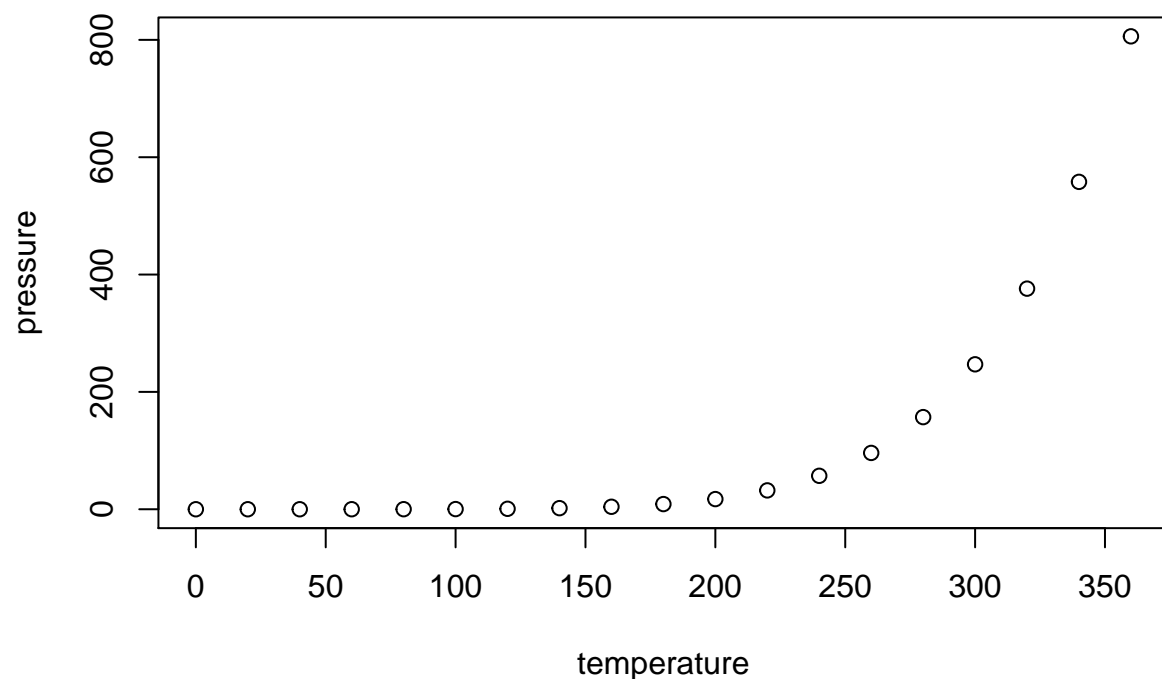
Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

```
bat<-read.csv("Batting Logs.csv")
bat
```

```
##    ï..Day...15 Day...17 Day...18 Day...20 Day...19 Day OPP...2020 AB...2020
## 1            1        1        1        1        1   1     vs SEA        4
## 2            2        2        2        2        2   2     vs SEA        3
## 3            3        3        3        3        3   3     vs SEA        3
## 4            4        4        4        4        4   4     vs SEA        3
## 5            5        5        5        5        5   5     vs LAD        4
## 6            6        6        6        6        6   6     vs LAD        5
## 7            7        7        7        7        7   7      @ LAA        4
## 8            8        8        8        8        8   8      @ LAA        5
## 9            9        9        9        9        9   9      @ LAA        2
## 10          10       10       10       10       10  10      @ ARI        3
## 11          11       11       11       11       11  11      @ ARI        4
## 12          12       12       12       12       12  12      @ ARI        4
## 13          13       13       13       13       13  13      @ OAK        4
## 14          14       14       14       14       14  14      @ OAK        3
## 15          15       15       15       15       15  15      @ OAK        4
## 16          16       16       16       16       16  16      vs SF        3
## 17          17       17       17       17       17  17      vs SF        5
## 18          18       18       18       18       18  18      vs SF        3
## 19          19       19       19       19       19  19     vs SEA        2
## 20          20       20       20       20       20  20     vs SEA        3
```

2

```
## 21          21          21          21          21          21   21      vs SEA         4
## 22          22          22          22          22          22   22      vs COL         4
## 23          23          23          23          23          23   23      vs COL         0
## 24          24          24          24          24          24   24       @ COL         5
## 25          25          25          25          25          25   25       @ COL         5
## 26          26          26          26          26          26   26        @ SD         5
## 27          27          27          27          27          27   27        @ SD         2
## 28          28          28          28          28          28   28        @ SD         4
## 29          29          29          29          29          29   29      vs LAA         5
## 30          30          30          30          30          30   30      vs LAA         3
## 31          31          31          31          31          31   31      vs LAA         3
## 32          32          32          32          32          32   32      vs OAK         2
## 33          33          33          33          33          33   33      vs OAK         3
## 34          34          34          34          34          34   34      vs TEX         4
## 35          35          35          35          35          35   35      vs TEX         3
## 36          36          36          36          36          36   36       @ LAA         5
## 37          37          37          37          37          37   37       @ LAA         4
## 38          38          38          38          38          38   38      vs LAA         3
## 39          39          39          39          39          39   39       @ LAA         4
## 40          40          40          40          40          40   40       @ OAK         4
## 41          41          41          41          41          41   41      vs OAK         3
## 42          42          42          42          42          42   42       @ OAK         3
## 43          43          43          43          43          43   43       @ OAK         3
## 44          44          44          44          44          44   44       @ OAK         3
## 45          45          45          45          45          45   45       @ LAD         3
## 46          46          46          46          46          46   46       @ LAD         4
## 47          47          47          47          47          47   47      vs TEX         2
## 48          48          48          48          48          48   48      vs TEX         3
## 49          49          49          49          49          49   49      vs TEX         3
## 50          50          50          50          50          50   50      vs ARI         4
## 51          51          51          51          51          51   51      vs ARI         3
## 52          52          52          52          52          52   52      vs ARI         3
## 53          53          53          53          53          53   53       @ SEA         4
## 54          54          54          54          54          54   54       @ SEA         3
## 55          55          55          55          55          55   55       @ SEA         4
## 56          56          56          56          56          56   56       @ TEX         4
## 57          57          57          57          57          57   57       @ TEX         4
## 58          58          58          58          58          58   58       @ TEX         2
## 59          59          59          59          NA          59   59                    NA
## 60          60          60          60          NA          60   60                    NA
## 61          61          61          61          NA          61   61                    NA
## 62          62          62          62          NA          62   62                    NA
## 63          63          63          63          NA          63   63                    NA
## 64          64          64          64          NA          64   64                    NA
## 65          65          65          65          NA          65   65                    NA
## 66          66          66          66          NA          66   66                    NA
## 67          67          67          67          NA          67   67                    NA
## 68          68          68          68          NA          68   68                    NA
## 69          69          69          69          NA          69   69                    NA
## 70          70          70          70          NA          70   70                    NA
## 71          71          71          71          NA          71   71                    NA
## 72          72          72          72          NA          72   72                    NA
## 73          73          73          73          NA          73   73                    NA
## 74          74          74          74          NA          74   74                    NA
```

```
## 75     75    75    75    NA    75  75      NA
## 76     76    76    76    NA    NA  76      NA
## 77     77    77    77    NA    NA  77      NA
## 78     78    78    78    NA    NA  78      NA
## 79     79    79    79    NA    NA  79      NA
## 80     80    80    80    NA    NA  80      NA
## 81     81    81    81    NA    NA  81      NA
## 82     82    82    82    NA    NA  82      NA
## 83     83    83    83    NA    NA  83      NA
## 84     84    84    84    NA    NA  84      NA
## 85     85    85    85    NA    NA  85      NA
## 86     86    86    86    NA    NA  86      NA
## 87     87    87    87    NA    NA  87      NA
## 88     88    88    88    NA    NA  88      NA
## 89     89    89    89    NA    NA  89      NA
## 90     90    90    90    NA    NA  90      NA
## 91     91    91    91    NA    NA  91      NA
## 92     92    92    92    NA    NA  92      NA
## 93     93    93    93    NA    NA  93      NA
## 94     94    94    94    NA    NA  94      NA
## 95     95    95    95    NA    NA  95      NA
## 96     96    96    96    NA    NA  96      NA
## 97     97    97    97    NA    NA  97      NA
## 98     98    98    98    NA    NA  98      NA
## 99     99    99    99    NA    NA  99      NA
## 100    NA   100   100    NA    NA 100      NA
## 101    NA   101   101    NA    NA 101      NA
## 102    NA   102   102    NA    NA 102      NA
## 103    NA   103   103    NA    NA 103      NA
## 104    NA   104   104    NA    NA 104      NA
## 105    NA   105   105    NA    NA 105      NA
## 106    NA   106   106    NA    NA 106      NA
## 107    NA   107   107    NA    NA 107      NA
## 108    NA   108   108    NA    NA 108      NA
## 109    NA   109   109    NA    NA 109      NA
## 110    NA    NA   110    NA    NA 110      NA
## 111    NA    NA    NA    NA    NA 111      NA
## 112    NA    NA    NA    NA    NA 112      NA
## 113    NA    NA    NA    NA    NA 113      NA
## 114    NA    NA    NA    NA    NA 114      NA
## 115    NA    NA    NA    NA    NA 115      NA
## 116    NA    NA    NA    NA    NA 116      NA
## 117    NA    NA    NA    NA    NA 117      NA
## 118    NA    NA    NA    NA    NA 118      NA
## 119    NA    NA    NA    NA    NA 119      NA
## 120    NA    NA    NA    NA    NA 120      NA
## 121    NA    NA    NA    NA    NA 121      NA
## 122    NA    NA    NA    NA    NA 122      NA
## 123    NA    NA    NA    NA    NA 123      NA
## 124    NA    NA    NA    NA    NA 124      NA
## 125    NA    NA    NA    NA    NA 125      NA
## 126    NA    NA    NA    NA    NA 126      NA
## 127    NA    NA    NA    NA    NA 127      NA
## 128    NA    NA    NA    NA    NA 128      NA
```

```
## 129          NA      NA      NA      NA      NA 129                NA
## 130          NA      NA      NA      NA      NA 130                NA
## 131          NA      NA      NA      NA      NA 131                NA
## 132          NA      NA      NA      NA      NA 132                NA
## 133          NA      NA      NA      NA      NA 133                NA
## 134          NA      NA      NA      NA      NA 134                NA
## 135          NA      NA      NA      NA      NA 135                NA
## 136          NA      NA      NA      NA      NA 136                NA
## 137          NA      NA      NA      NA      NA 137                NA
## 138          NA      NA      NA      NA      NA 138                NA
## 139          NA      NA      NA      NA      NA 139                NA
## 140          NA      NA      NA      NA      NA 140                NA
## 141          NA      NA      NA      NA      NA 141                NA
## 142          NA      NA      NA      NA      NA 142                NA
## 143          NA      NA      NA      NA      NA 143                NA
## 144          NA      NA      NA      NA      NA 144                NA
## 145          NA      NA      NA      NA      NA 145                NA
## 146          NA      NA      NA      NA      NA 146                NA
## 147          NA      NA      NA      NA      NA 147                NA
## 148          NA      NA      NA      NA      NA 148                NA
## 149          NA      NA      NA      NA      NA 149                NA
## 150          NA      NA      NA      NA      NA 150                NA
## 151          NA      NA      NA      NA      NA 151                NA
## 152          NA      NA      NA      NA      NA 152                NA
## 153          NA      NA      NA      NA      NA 153                NA
## 154          NA      NA      NA      NA      NA  NA                NA
## 155          NA      NA      NA      NA      NA  NA                NA
## 156          NA      NA      NA      NA      NA  NA                NA
##     H...2020 Y.N.20 OPP...2019 Ab...2019 H...2019 Y.N.19 OPP...2018 AB..2018
## 1          1      1       @ TB         3        0      0     @ TEX         3
## 2          1      1      @ TEX         4        3      1     @ TEX         3
## 3          1      1      @ TEX         4        1      1     @ TEX         5
## 4          1      1      @ TEX         4        1      1     @ TEX         5
## 5          3      1     vs OAK         3        1      1    vs BAL         1
## 6          2      1     vs OAK         4        0      0    vs BAL         2
## 7          1      1     vs OAK         5        1      1     vs SD         3
## 8          0      0     vs NYY         4        2      1     vs SD         4
## 9          1      1     vs NYY         3        0      0     vs SD         3
## 10         3      1     vs NYY         4        3      1     @ MIN         4
## 11         2      1      @ SEA         3        2      1     @ MIN         4
## 12         1      1      @ SEA         4        0      0     @ MIN         4
## 13         1      1      @ SEA         3        1      1    vs TEX         4
## 14         1      1      @ OAK         4        0      0    vs TEX         5
## 15         0      0      @ OAK         3        0      0    vs TEX         3
## 16         1      1      @ TEX         5        1      1     @ SEA         2
## 17         1      1      @ TEX         4        1      1     @ SEA         4
## 18         1      1      @ TEX         5        1      1     @ SEA         5
## 19         0      0     vs MIN         5        1      1     @ SEA         3
## 20         0      0     vs MIN         4        2      1     @ CWS         5
## 21         0      0     vs MIN         4        1      1     @ CWS         3
## 22         2      1     vs CLE         3        1      1     @ CWS         2
## 23         0      0     vs CLE         5        1      1    vs LAA         4
## 24         3      1     vs CLE         4        2      1    vs LAA         4
## 25         1      1     vs CLE         3        1      1    vs LAA         3
```

```
## 26     1     1     @ MIN     4     2     1     vs OAK     4
## 27     0     0     @ MIN     3     2     1     vs OAK     4
## 28     1     1     @ MIN     4     1     1     vs OAK     4
## 29     1     1     @ LAA     5     1     1     vs NYY     3
## 30     1     1     @ LAA     4     1     1     vs NYY     3
## 31     0     0     vs KC     4     3     1     vs NYY     4
## 32     0     0     vs KC     4     0     0     vs NYY     4
## 33     1     1     vs KC     3     1     1     @ ARI     5
## 34     2     1     vs TEX     3     0     0     @ ARI     5
## 35     0     0     vs TEX     3     0     0     @ ARI     3
## 36     2     1     vs TEX     4     1     1     @ OAK     3
## 37     2     1     vs TEX     3     3     1     @ OAK     5
## 38     1     1     @ DET     5     1     1     vs TEX     2
## 39     1     1     @ DET     5     2     1     vs TEX     2
## 40     2     1     @ DET     5     2     1     vs TEX     5
## 41     0     0     @ BOS     3     0     0     @ LAA     2
## 42     0     0     @ BOS     3     1     1     @ LAA     4
## 43     1     1     @ BOS     4     1     1     @ LAA     3
## 44     0     0     vs CWS     2     0     0     vs CLE     3
## 45     1     1     vs CWS     3     1     1     vs CLE     4
## 46     0     0     vs CWS     4     2     1     vs CLE     4
## 47     0     0     vs CWS     4     0     0     vs SF     4
## 48     0     0     vs BOS     4     0     0     vs SF     4
## 49     1     1     vs BOS     4     3     1     @ CLE     5
## 50     1     1     vs BOS     3     1     1     @ CLE     5
## 51     0     0     @ STL     4     0     0     @ CLE     3
## 52     0     0     @ STL     4     2     1     @ CLE     6
## 53     1     1     @ STL     5     0     0     @ NYY     4
## 54     0     0     @ CLE     4     0     0     @ NYY     4
## 55     1     1     @ CLE     4     2     1     vs BOS     3
## 56     1     1     @ CLE     3     1     1     vs BOS     4
## 57     1     1     vs SEA     3     1     1     vs BOS     3
## 58     2     1     vs SEA     5     2     1     vs BOS     4
## 59     NA    NA    vs SEA     2     1     1     vs SEA     4
## 60     NA    NA    vs COL     4     2     1     vs SEA     3
## 61     NA    NA    vs COL     3     1     1     @ OAK     4
## 62     NA    NA    @ BAL     4     0     0     @ OAK     4
## 63     NA    NA    @ BAL     6     3     1     @ OAK     4
## 64     NA    NA    @ BAL     5     2     1     @ KC     4
## 65     NA    NA    @ CWS     4     0     0     @ KC     5
## 66     NA    NA    @ CWS     3     0     0     @ KC     4
## 67     NA    NA    @ CWS     2     0     0     vs TB     4
## 68     NA    NA    @ OAK     4     2     1     vs TB     3
## 69     NA    NA    @ OAK     5     0     0     vs TB     4
## 70     NA    NA    @ OAK     3     0     0     vs KC     3
## 71     NA    NA    @ OAK     2     0     0     vs KC     5
## 72     NA    NA    vs DET     1     0     0     vs KC     2
## 73     NA    NA    vs TEX     4     0     0     vs TOR     3
## 74     NA    NA    vs LAA     4     2     1     vs SEA     3
## 75     NA    NA    vs LAA     2     1     1     vs SEA     3
## 76     NA    NA            NA    NA    NA     vs SEA     5
## 77     NA    NA            NA    NA    NA     vs COL     4
## 78     NA    NA            NA    NA    NA     vs COL     3
## 79     NA    NA            NA    NA    NA     @ OAK     3
```

```
## 80    NA   NA       NA   NA   NA   @ OAK    3
## 81    NA   NA       NA   NA   NA   @ OAK    4
## 82    NA   NA       NA   NA   NA   @ SEA    4
## 83    NA   NA       NA   NA   NA   @ SEA    3
## 84    NA   NA       NA   NA   NA   @ SEA    4
## 85    NA   NA       NA   NA   NA   @ LAA    4
## 86    NA   NA       NA   NA   NA   @ LAA    5
## 87    NA   NA       NA   NA   NA   @ LAA    4
## 88    NA   NA       NA   NA   NA   vs OAK   5
## 89    NA   NA       NA   NA   NA   vs OAK   3
## 90    NA   NA       NA   NA   NA   vs OAK   4
## 91    NA   NA       NA   NA   NA   vs LAA   4
## 92    NA   NA       NA   NA   NA   vs LAA   3
## 93    NA   NA       NA   NA   NA   vs LAA   4
## 94    NA   NA       NA   NA   NA   vs LAA   1
## 95    NA   NA       NA   NA   NA   vs MIN   3
## 96    NA   NA       NA   NA   NA   vs MIN   3
## 97    NA   NA       NA   NA   NA   @ BOS    3
## 98    NA   NA       NA   NA   NA   @ BOS    5
## 99    NA   NA       NA   NA   NA   @ BOS    4
## 100   NA   NA       NA   NA   NA   @ DET    4
## 101   NA   NA       NA   NA   NA   @ DET    3
## 102   NA   NA       NA   NA   NA   @ DET    3
## 103   NA   NA       NA   NA   NA   vs ARI   3
## 104   NA   NA       NA   NA   NA   vs ARI   5
## 105   NA   NA       NA   NA   NA   vs ARI   4
## 106   NA   NA       NA   NA   NA   vs SEA   2
## 107   NA   NA       NA   NA   NA   vs SEA   3
## 108   NA   NA       NA   NA   NA   @ TOR    4
## 109   NA   NA       NA   NA   NA   @ BAL    3
## 110   NA   NA       NA   NA   NA   @ BAL    5
## 111   NA   NA       NA   NA   NA            NA
## 112   NA   NA       NA   NA   NA            NA
## 113   NA   NA       NA   NA   NA            NA
## 114   NA   NA       NA   NA   NA            NA
## 115   NA   NA       NA   NA   NA            NA
## 116   NA   NA       NA   NA   NA            NA
## 117   NA   NA       NA   NA   NA            NA
## 118   NA   NA       NA   NA   NA            NA
## 119   NA   NA       NA   NA   NA            NA
## 120   NA   NA       NA   NA   NA            NA
## 121   NA   NA       NA   NA   NA            NA
## 122   NA   NA       NA   NA   NA            NA
## 123   NA   NA       NA   NA   NA            NA
## 124   NA   NA       NA   NA   NA            NA
## 125   NA   NA       NA   NA   NA            NA
## 126   NA   NA       NA   NA   NA            NA
## 127   NA   NA       NA   NA   NA            NA
## 128   NA   NA       NA   NA   NA            NA
## 129   NA   NA       NA   NA   NA            NA
## 130   NA   NA       NA   NA   NA            NA
## 131   NA   NA       NA   NA   NA            NA
## 132   NA   NA       NA   NA   NA            NA
## 133   NA   NA       NA   NA   NA            NA
```

```
## 134      NA     NA              NA    NA     NA             NA
## 135      NA     NA              NA    NA     NA             NA
## 136      NA     NA              NA    NA     NA             NA
## 137      NA     NA              NA    NA     NA             NA
## 138      NA     NA              NA    NA     NA             NA
## 139      NA     NA              NA    NA     NA             NA
## 140      NA     NA              NA    NA     NA             NA
## 141      NA     NA              NA    NA     NA             NA
## 142      NA     NA              NA    NA     NA             NA
## 143      NA     NA              NA    NA     NA             NA
## 144      NA     NA              NA    NA     NA             NA
## 145      NA     NA              NA    NA     NA             NA
## 146      NA     NA              NA    NA     NA             NA
## 147      NA     NA              NA    NA     NA             NA
## 148      NA     NA              NA    NA     NA             NA
## 149      NA     NA              NA    NA     NA             NA
## 150      NA     NA              NA    NA     NA             NA
## 151      NA     NA              NA    NA     NA             NA
## 152      NA     NA              NA    NA     NA             NA
## 153      NA     NA              NA    NA     NA             NA
## 154      NA     NA              NA    NA     NA             NA
## 155      NA     NA              NA    NA     NA             NA
## 156      NA     NA              NA    NA     NA             NA
##      H...2018 Y.N.18 OPP...2017 AB...2017 H..2017 Y.N.17 OPP...2016 AB...2016
## 1          1      1     vs SEA        2       1      1      @ NYY        4
## 2          0      0     vs SEA        2       0      0      @ NYY        5
## 3          4      1     vs SEA        6       2      1      @ NYY        4
## 4          2      1     vs SEA        3       0      0      @ MIL        4
## 5          0      0      vs KC        4       1      1      @ MIL        3
## 6          2      1      vs KC        3       0      0      @ MIL        3
## 7          0      0      vs KC        5       2      1      vs KC        5
## 8          0      0      @ SEA        4       3      1      vs KC        3
## 9          0      0      @ SEA        5       0      0      vs KC        4
## 10         2      1      @ SEA        5       2      1      vs KC        4
## 11         0      0      @ OAK        5       0      0     vs DET        3
## 12         2      1      @ OAK        3       0      0     vs DET        3
## 13         0      0     vs LAA        2       0      0      @ TEX        3
## 14         1      1       @ TB        3       0      0      @ TEX        4
## 15         0      0       @ TB        4       0      0      @ TEX        4
## 16         1      1       @ TB        5       1      1     vs BOS        4
## 17         2      1      @ CLE        4       2      1     vs BOS        3
## 18         2      1      @ CLE        4       1      1     vs BOS        5
## 19         1      1      @ CLE        4       1      1      @ SEA        4
## 20         3      1     vs OAK        5       2      1      @ SEA        4
## 21         2      1     vs OAK        4       0      0      @ SEA        4
## 22         2      1     vs OAK        4       2      1      @ OAK        2
## 23         1      1     vs TEX        3       1      1      @ OAK        3
## 24         1      1     vs TEX        4       0      0      @ OAK        2
## 25         1      1     vs TEX        5       4      1     vs MIN        2
## 26         1      1     vs TEX        4       2      1     vs MIN        4
## 27         1      1      @ LAA        5       2      1     vs MIN        5
## 28         0      0      @ LAA        4       1      1     vs SEA        3
## 29         2      1      @ LAA        3       0      0     vs SEA        3
## 30         0      0     vs ATL        4       1      1     vs SEA        5
```

```
## 31        0    0   vs ATL     3    2    1   vs SEA     3
## 32        1    1    @ NYY     3    2    1   vs CLE     4
## 33        2    1    @ NYY     5    2    1   vs CLE     4
## 34        0    0    @ NYY     4    2    1   vs CLE     7
## 35        1    1    @ NYY     3    1    1    @ BOS     3
## 36        1    1    @ MIA     3    0    0    @ BOS     4
## 37        1    1    @ MIA     4    2    1    @ BOS     4
## 38        0    0   vs CLE     3    1    1    @ BOS     5
## 39        1    1   vs CLE     2    0    0    @ CWS     6
## 40        1    1   vs CLE     4    0    0    @ CWS     5
## 41        1    1   vs DET     4    0    0    @ CWS     4
## 42        0    0   vs DET     4    3    1   vs TEX     4
## 43        0    0   vs BAL     4    2    1   vs TEX     4
## 44        1    1   vs BAL     4    2    1   vs TEX     4
## 45        1    1   vs BAL     4    2    1   vs BAL     6
## 46        0    0    @ MIN     5    3    1   vs BAL     4
## 47        0    0    @ MIN     4    1    1   vs BAL     4
## 48        2    1    @ MIN     6    3    1    @ LAA     3
## 49        1    1    @ TEX     5    1    1    @ LAA     4
## 50        1    1    @ TEX     5    1    1    @ LAA     1
## 51        2    1    @ TEX     3    2    1    @ ARI     4
## 52        1    1     @ KC     3    0    0    @ ARI     2
## 53        0    0     @ KC     4    1    1   vs ARI     5
## 54        0    0     @ KC     5    0    0   vs ARI     4
## 55        1    1     @ KC     4    1    1   vs OAK     5
## 56        2    1   vs LAA     4    0    0   vs OAK     5
## 57        0    0   vs LAA     4    1    1   vs OAK     4
## 58        1    1   vs TEX     4    1    1    @ TEX     4
## 59        1    1   vs TEX     4    1    1    @ TEX     3
## 60        1    1   vs TEX     4    2    1    @ TEX     4
## 61        2    1   vs BOS     3    2    1    @ TEX     2
## 62        1    1   vs BOS     3    1    1    @ STL     4
## 63        2    1   vs BOS     5    2    1    @ STL     3
## 64        2    1    @ OAK     3    0    0   vs CIN     5
## 65        0    0    @ OAK     4    1    1   vs CIN     4
## 66        2    1    @ OAK     5    2    1   vs CIN     2
## 67        1    1    @ OAK     2    1    1   vs LAA     3
## 68        0    0    @ SEA     4    1    1   vs LAA     4
## 69        1    1    @ SEA     4    1    1   vs LAA     4
## 70        1    1    @ SEA     5    2    1     @ KC     5
## 71        1    1   vs OAK     3    1    1     @ KC     4
## 72        0    0   vs OAK     5    2    1     @ KC     4
## 73        1    1   vs OAK     3    2    1    @ LAA     3
## 74        0    0   vs NYY     4    1    1    @ LAA     4
## 75        0    0   vs NYY     4    2    1    @ LAA     4
## 76        1    1   vs NYY     5    4    1   vs CWS     3
## 77        0    0    @ ATL     2    1    1   vs CWS     4
## 78        1    1    @ TOR     4    1    1   vs CWS     4
## 79        0    0    @ TOR     5    2    1   vs SEA     3
## 80        0    0    @ TOR     3    0    0   vs SEA     4
## 81        1    1    @ TOR     5    4    1   vs SEA     5
## 82        0    0   vs MIN     4    1    1   vs OAK     3
## 83        3    1   vs MIN     3    0    0   vs OAK     5
## 84        0    0   vs SEA     1    0    0   vs OAK     4
```

```
## 85      2    1   vs NYM    3    1    1   vs OAK   5
## 86      0    0   @ SEA     5    0    0   @ SEA    4
## 87      1    1   @ SEA     4    1    1   @ SEA    3
## 88      1    1   @ SEA     5    0    0   @ SEA    3
## 89      1    1   @ OAK     5    1    1   @ OAK    4
## 90      0    0   @ OAK     4    1    1   @ OAK    3
## 91      0    0   @ OAK     4    0    0   @ OAK    2
## 92      1    1   @ OAK     3    2    1   vs LAA   4
## 93      2    1   @ LAA     4    1    1   vs LAA   3
## 94      0    0   @ LAA     3    1    1   vs LAA   5
## 95      0    0   @ LAA     4    0    0   vs NYY   3
## 96      0    0   vs SEA    4    2    1   vs NYY   2
## 97      0    0   vs SEA    4    1    1   vs NYY   3
## 98      1    1   vs SEA    4    1    1   @ DET    4
## 99      1    1   vs CWS    3    0    0   @ DET    4
## 100     1    1   vs CWS    3    0    0   @ DET    4
## 101     0    0   vs CWS    4    0    0   vs TOR   5
## 102     0    0   vs LAA    3    3    1   vs TOR   4
## 103     1    1   vs LAA    3    1    1   vs TOR   4
## 104     1    1   @ TEX     5    0    0   vs TOR   4
## 105     2    1   @ TEX     5    3    1   vs TEX   3
## 106     0    0   @ TEX     5    4    1   vs TEX   3
## 107     0    0   @ BOS     4    4    1   vs TEX   4
## 108     1    1   @ BOS     3    0    0   @ MIN    4
## 109     0    0   @ BOS     3    2    1   @ MIN    4
## 110     2    1            NA   NA   NA   @ MIN    4
## 111    NA   NA            NA   NA   NA   @ MIN    4
## 112    NA   NA            NA   NA   NA   @ TOR    5
## 113    NA   NA            NA   NA   NA   @ TOR    3
## 114    NA   NA            NA   NA   NA   @ TOR    4
## 115    NA   NA            NA   NA   NA   vs STL   4
## 116    NA   NA            NA   NA   NA   vs STL   4
## 117    NA   NA            NA   NA   NA   @ BAL    4
## 118    NA   NA            NA   NA   NA   @ BAL    6
## 119    NA   NA            NA   NA   NA   @ BAL    5
## 120    NA   NA            NA   NA   NA   @ BAL    3
## 121    NA   NA            NA   NA   NA   @ PIT    4
## 122    NA   NA            NA   NA   NA   @ PIT    3
## 123    NA   NA            NA   NA   NA   @ PIT    3
## 124    NA   NA            NA   NA   NA   vs TB    3
## 125    NA   NA            NA   NA   NA   vs TB    4
## 126    NA   NA            NA   NA   NA   vs TB    4
## 127    NA   NA            NA   NA   NA   vs OAK   4
## 128    NA   NA            NA   NA   NA   vs OAK   3
## 129    NA   NA            NA   NA   NA   vs OAK   3
## 130    NA   NA            NA   NA   NA   @ TEX    5
## 131    NA   NA            NA   NA   NA   @ TEX    4
## 132    NA   NA            NA   NA   NA   @ TEX    5
## 133    NA   NA            NA   NA   NA   @ CLE    3
## 134    NA   NA            NA   NA   NA   @ CLE    4
## 135    NA   NA            NA   NA   NA   vs CHC   1
## 136    NA   NA            NA   NA   NA   vs TEX   3
## 137    NA   NA            NA   NA   NA   vs TEX   3
## 138    NA   NA            NA   NA   NA   vs TEX   3
```

```
## 139          NA   NA              NA   NA   NA     @ SEA        4
## 140          NA   NA              NA   NA   NA     @ SEA        4
## 141          NA   NA              NA   NA   NA     @ SEA        4
## 142          NA   NA              NA   NA   NA     @ OAK        4
## 143          NA   NA              NA   NA   NA     @ OAK        3
## 144          NA   NA              NA   NA   NA     @ OAK        4
## 145          NA   NA              NA   NA   NA    vs LAA        4
## 146          NA   NA              NA   NA   NA    vs LAA        3
## 147          NA   NA              NA   NA   NA    vs LAA        2
## 148          NA   NA              NA   NA   NA    vs LAA        3
## 149          NA   NA              NA   NA   NA    vs SEA        5
## 150          NA   NA              NA   NA   NA    vs SEA        4
## 151          NA   NA              NA   NA   NA    vs SEA        4
## 152          NA   NA              NA   NA   NA     @ LAA        3
## 153          NA   NA              NA   NA   NA     @ LAA        5
## 154          NA   NA              NA   NA   NA                 NA
## 155          NA   NA              NA   NA   NA                 NA
## 156          NA   NA              NA   NA   NA                 NA
##      H...2016 Y.N.16 OPP..2015 AB...2015 H...2015 Y.N.15
## 1           1      1     @ CWS         4        1      1
## 2           4      1     @ CWS         4        2      1
## 3           0      0     @ CWS         4        1      1
## 4           2      1    vs SEA         4        1      1
## 5           0      0    vs SEA         3        0      0
## 6           0      0    vs SEA         6        1      1
## 7           3      1    vs COL         4        3      1
## 8           1      1    vs COL         5        2      1
## 9           0      0     @ COL         5        3      1
## 10          1      1     @ COL         4        1      1
## 11          0      0     @ SEA         4        0      0
## 12          0      0     @ SEA         4        1      1
## 13          1      1     @ SEA         5        1      1
## 14          1      1     @ LAA         3        0      0
## 15          1      1     @ LAA         6        3      1
## 16          2      1     @ LAA         5        1      1
## 17          1      1    vs NYY         4        0      0
## 18          2      1    vs NYY         4        1      1
## 19          1      1    vs NYY         5        3      1
## 20          0      0    vs NYY         3        2      1
## 21          1      1     vs KC         4        0      0
## 22          0      0     vs KC         4        0      0
## 23          1      1     @ BOS         6        3      1
## 24          0      0     @ BOS         4        1      1
## 25          0      0     @ BOS         4        3      1
## 26          1      1     @ CLE         4        0      0
## 27          3      1     @ CLE         4        0      0
## 28          0      0     @ CLE         4        0      0
## 29          3      1     @ CLE         4        1      1
## 30          1      1      @ TB         4        0      0
## 31          1      1      @ TB         3        1      1
## 32          1      1      @ TB         3        1      1
## 33          0      0    vs TEX         4        1      1
## 34          2      1    vs TEX         4        2      1
## 35          0      0    vs TEX         3        2      1
```

```
## 36      1      1    vs BOS      3      1      1
## 37      2      1    vs BOS      4      1      1
## 38      1      1    vs BOS      2      1      1
## 39      1      1     @ KC       3      1      1
## 40      2      1     @ KC       3      0      0
## 41      0      0     @ KC       3      1      1
## 42      1      1    vs LAA      4      3      1
## 43      0      0    vs LAA      4      1      1
## 44      0      0    vs LAA      4      1      1
## 45      1      1    vs ARI      4      1      1
## 46      1      1    vs ARI      5      2      1
## 47      0      0    vs ARI      3      1      1
## 48      1      1     @ TEX      5      1      1
## 49      0      0     @ TEX      3      0      0
## 50      1      1     @ TEX      4      0      0
## 51      2      1     @ OAK      4      2      1
## 52      1      1     @ OAK      4      1      1
## 53      2      1     @ OAK      2      0      0
## 54      1      1     @ OAK      3      1      1
## 55      2      1     @ SF       4      0      0
## 56      3      1     @ SF       4      1      1
## 57      1      1    vs DET      1      0      0
## 58      0      0    vs DET      3      2      1
## 59      0      0    vs DET      3      1      1
## 60      0      0     vs TB      4      1      1
## 61      1      1     vs TB      4      1      1
## 62      0      0     vs TB      6      2      1
## 63      2      1     vs TB      3      0      0
## 64      1      1    vs LAD      4      0      0
## 65      1      1    vs LAD      3      0      0
## 66      0      0    vs LAD      4      2      1
## 67      2      1     @ NYY      4      2      1
## 68      2      1     @ NYY      4      0      0
## 69      1      1    vs SEA      4      2      1
## 70      1      1    vs SEA      5      1      1
## 71      2      1    vs SEA      3      0      0
## 72      0      0    vs MIN      4      0      0
## 73      0      0    vs MIN      4      3      1
## 74      3      1    vs MIN      4      2      1
## 75      2      1     @ OAK      5      1      1
## 76      1      1     @ OAK      4      0      0
## 77      1      1     @ OAK      4      0      0
## 78      0      0     @ LAA      3      1      1
## 79      0      0     @ LAA      3      1      1
## 80      1      1     @ LAA      4      1      1
## 81      2      1     @ TEX      5      2      1
## 82      0      0     @ TEX      4      1      1
## 83      2      1     @ TEX      3      0      0
## 84      0      0     @ TEX      4      2      1
## 85      1      1    vs OAK      4      0      0
## 86      2      1    vs OAK      4      2      1
## 87      1      1    vs OAK      3      0      0
## 88      0      0    vs LAA      4      3      1
## 89      2      1    vs LAA      4      1      1
```

```
## 90       1       1   vs LAA        4       1       1
## 91       1       1   vs TEX        5       1       1
## 92       0       0   vs TEX        4       3       1
## 93       2       1   vs TEX        4       1       1
## 94       3       1   @ SEA         4       1       1
## 95       0       0   @ SEA         4       0       0
## 96       0       0   @ SEA         5       1       1
## 97       1       1   @ ARI         4       3       1
## 98       1       1   @ ARI         4       0       0
## 99       2       1   @ ARI         4       1       1
## 100      0       0                NA      NA      NA
## 101      1       1                NA      NA      NA
## 102      2       1                NA      NA      NA
## 103      1       1                NA      NA      NA
## 104      0       0                NA      NA      NA
## 105      1       1                NA      NA      NA
## 106      1       1                NA      NA      NA
## 107      1       1                NA      NA      NA
## 108      1       1                NA      NA      NA
## 109      2       1                NA      NA      NA
## 110      2       1                NA      NA      NA
## 111      2       1                NA      NA      NA
## 112      1       1                NA      NA      NA
## 113      1       1                NA      NA      NA
## 114      3       1                NA      NA      NA
## 115      1       1                NA      NA      NA
## 116      0       0                NA      NA      NA
## 117      0       0                NA      NA      NA
## 118      1       1                NA      NA      NA
## 119      1       1                NA      NA      NA
## 120      2       1                NA      NA      NA
## 121      0       0                NA      NA      NA
## 122      0       0                NA      NA      NA
## 123      2       1                NA      NA      NA
## 124      1       1                NA      NA      NA
## 125      2       1                NA      NA      NA
## 126      2       1                NA      NA      NA
## 127      1       1                NA      NA      NA
## 128      1       1                NA      NA      NA
## 129      1       1                NA      NA      NA
## 130      1       1                NA      NA      NA
## 131      1       1                NA      NA      NA
## 132      1       1                NA      NA      NA
## 133      1       1                NA      NA      NA
## 134      1       1                NA      NA      NA
## 135      1       1                NA      NA      NA
## 136      0       0                NA      NA      NA
## 137      0       0                NA      NA      NA
## 138      0       0                NA      NA      NA
## 139      1       1                NA      NA      NA
## 140      1       1                NA      NA      NA
## 141      2       1                NA      NA      NA
## 142      2       1                NA      NA      NA
## 143      0       0                NA      NA      NA
```

```
## 144       2     1                 NA      NA      NA
## 145       0     0                 NA      NA      NA
## 146       1     1                 NA      NA      NA
## 147       0     0                 NA      NA      NA
## 148       1     1                 NA      NA      NA
## 149       3     1                 NA      NA      NA
## 150       2     1                 NA      NA      NA
## 151       1     1                 NA      NA      NA
## 152       1     1                 NA      NA      NA
## 153       0     0                 NA      NA      NA
## 154      NA    NA                 NA      NA      NA
## 155      NA    NA                 NA      NA      NA
## 156      NA    NA                 NA      NA      NA
```

```r
plot(x = bat$Day, y = bat$H...2019, type = "p",xlab = "Day", ylab = "Hit Count", main = "Hits by day -
lines(bat$H...2020, type = "p", col = "orange")
lines(bat$H...2018, type = "p", col = "green")
lines(bat$H..2017, type = "p", col = "yellow")
lines(bat$H...2016, type = "p", col = "red")
lines(bat$H...2015, type = "p", col = "purple")
```
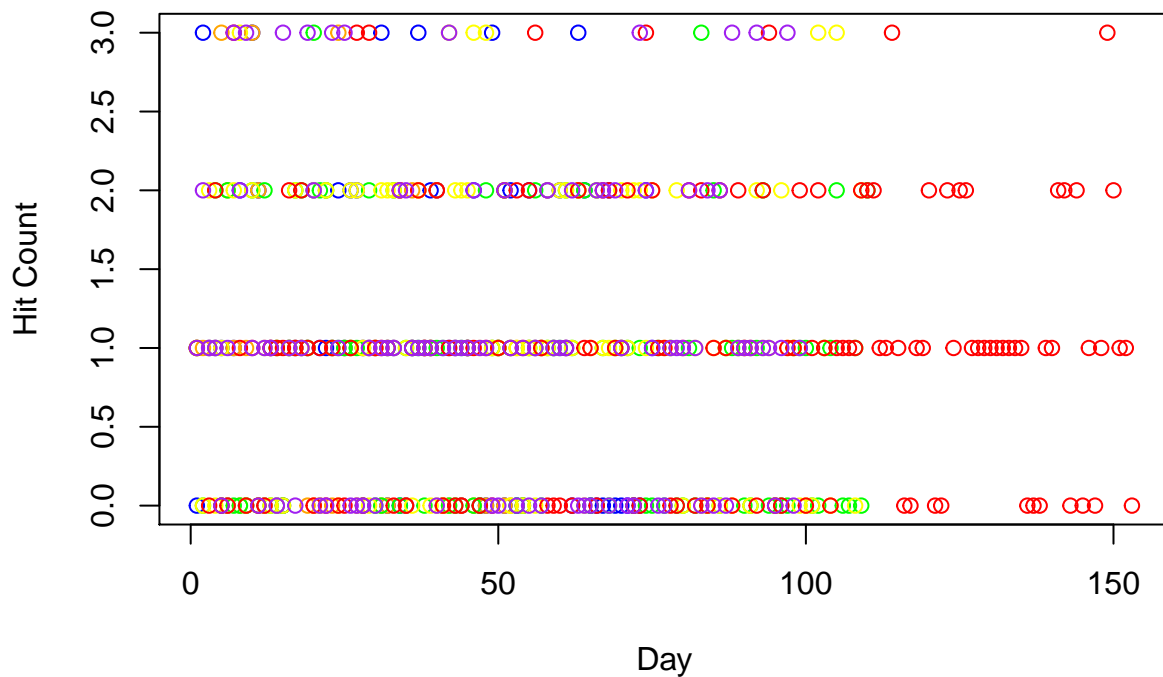

Hits by day – All

```r
plot(x = bat$Day...19, y = bat$H...2019, type = "o",xlab = "Day", ylab = "Hit Count", main = "Hits by da
```
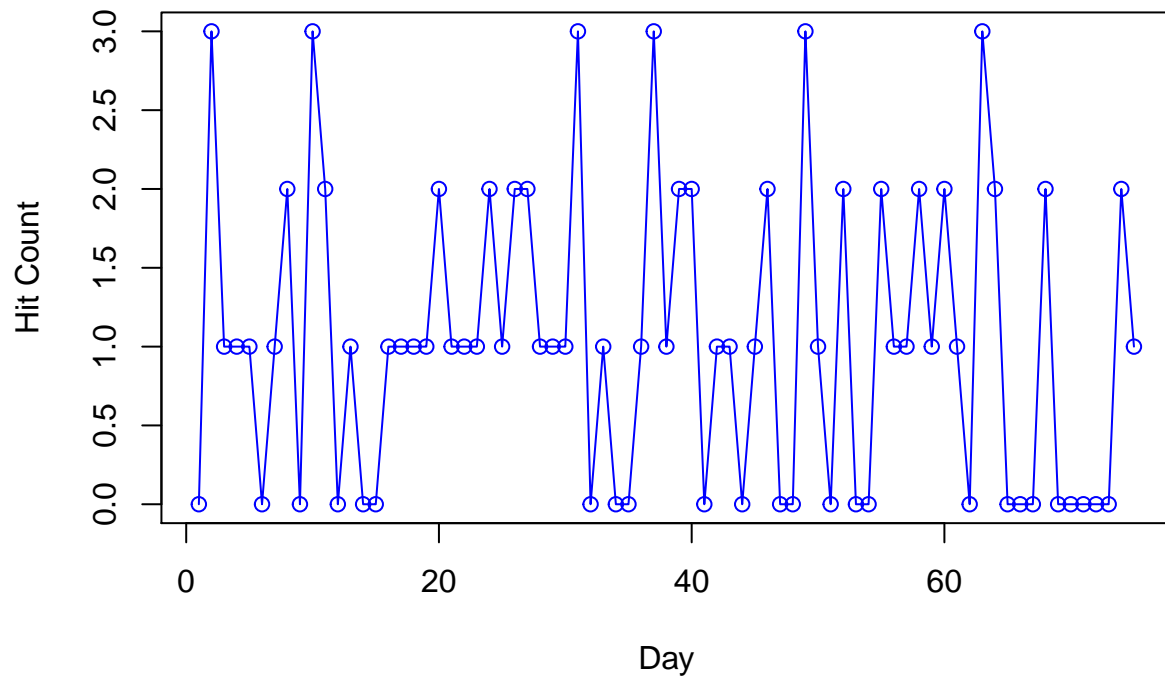
Hits by day – 2019


```
plot(x = bat$Day...20, y = bat$H...2020, type = "o",xlab  = "Day", ylab = "Hit Count", main = "Hits by d
```
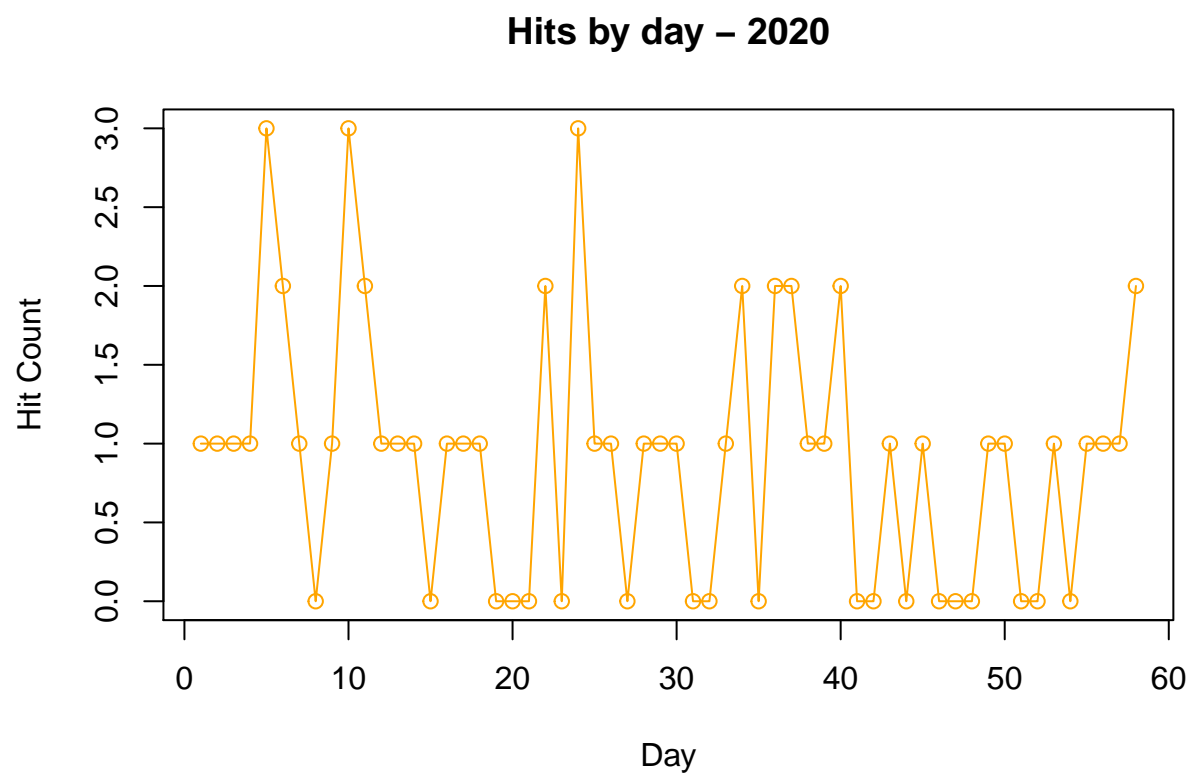
Hits by day – 2020


```
plot(x = bat$Day...18, y = bat$H...2018, type = "o",xlab = "Day", ylab = "Hit Count", main = "Hits by da
```
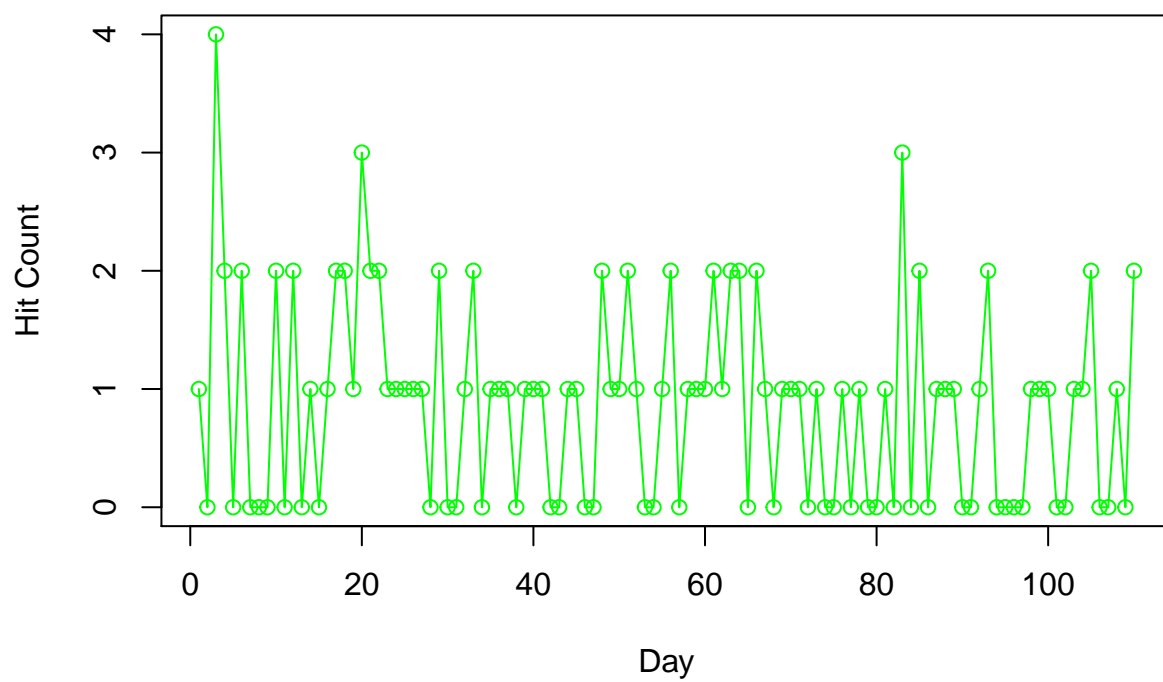
Hits by day – 2018


```
plot(x = bat$Day...17, y = bat$H..2017, type = "o",xlab = "Day", ylab = "Hit Count", main = "Hits by day
```
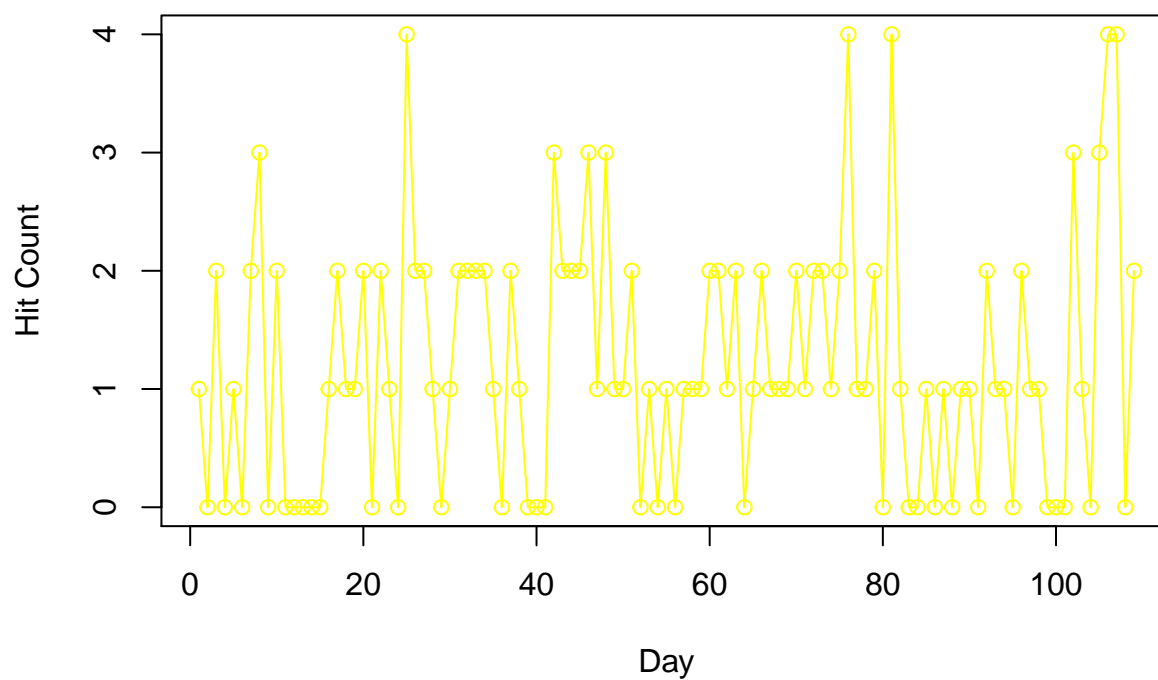
Hits by day – 2017


```
plot(x = bat$Day, y = bat$H...2016, type = "o",xlab = "Day", ylab = "Hit Count", main = "Hits by day –
```
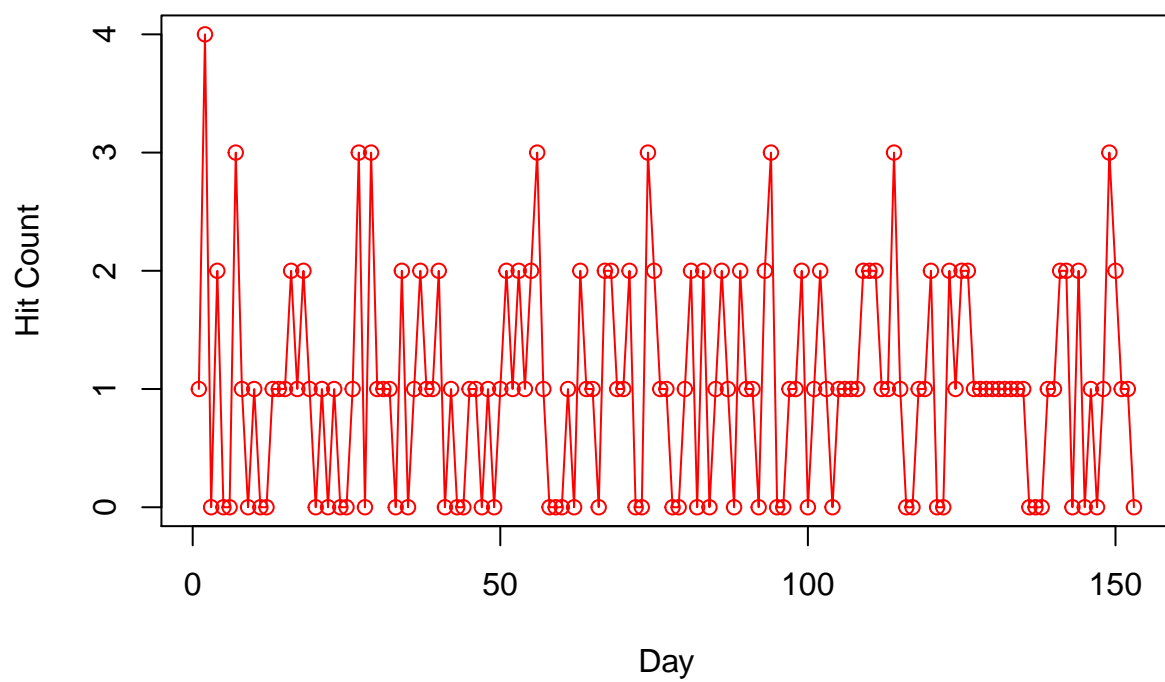
Hits by day – 2016


```
plot(x = bat$ï..Day...15, y = bat$H...2015, type = "o",xlab = "Day", ylab = "Hit Count", main = "Hits by
```

Hits by day – 2015
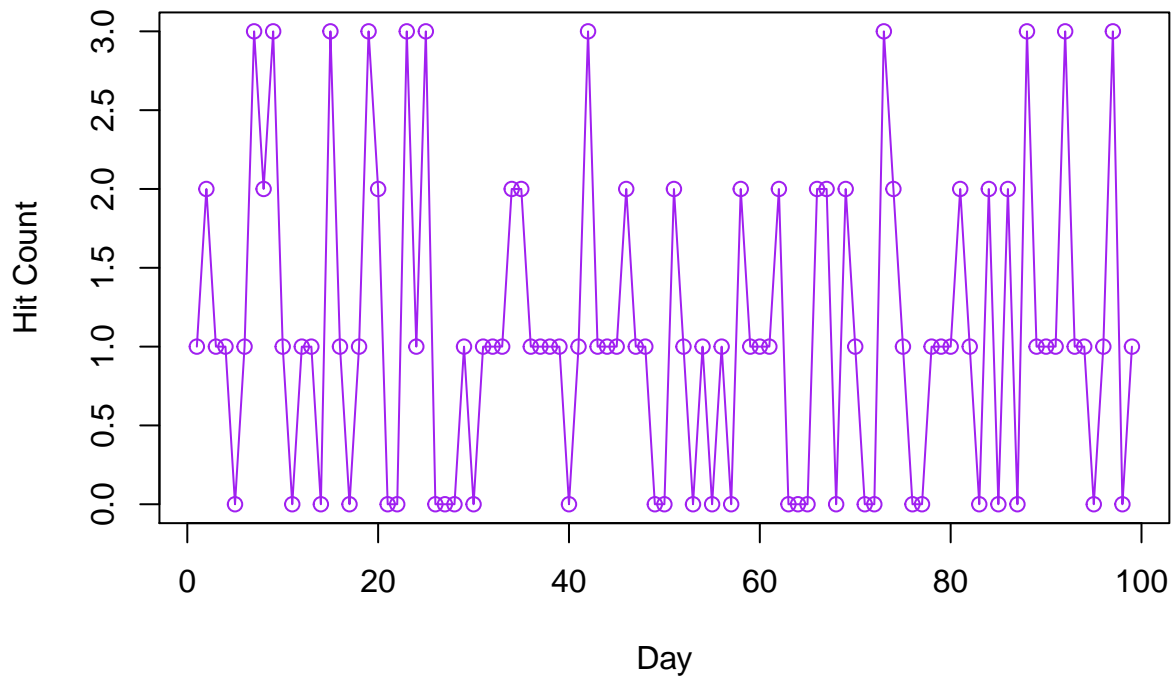

```r
library("GGally")
```

```
## Loading required package: ggplot2
```

```
## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg   ggplot2
```

```r
ggpairs(bat, columns = c(1, 4, 8, 12, 16, 20, 24), title = "Hits per game")
```

```
## Warning: Removed 57 rows containing non-finite values (stat_density).
```

```
## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values
```

```
## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values
```

```
## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 81 rows containing missing values
```

```
## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 57 rows containing missing values
```

```
## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 57 rows containing missing values
```

```
## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 57 rows containing missing values
```

```
## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing non-finite values (stat_density).

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values

## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing non-finite values (stat_density).

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values

## Warning: Removed 81 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 81 rows containing non-finite values (stat_density).

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 81 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 81 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 81 rows containing missing values

## Warning: Removed 57 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing missing values (geom_point).
```
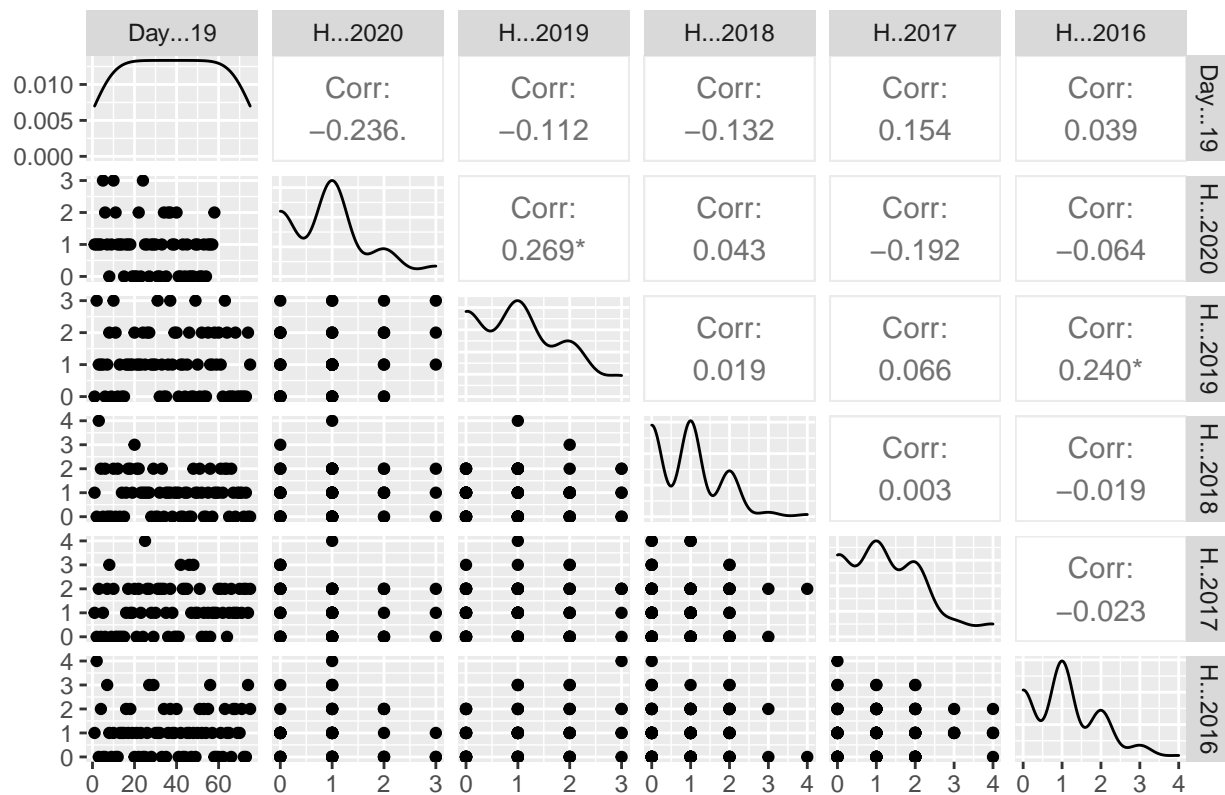
```
## Warning: Removed 81 rows containing missing values (geom_point).

## Warning: Removed 46 rows containing non-finite values (stat_density).

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 47 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 46 rows containing missing values

## Warning: Removed 57 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing missing values (geom_point).


## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 81 rows containing missing values (geom_point).

## Warning: Removed 47 rows containing missing values (geom_point).

## Warning: Removed 47 rows containing non-finite values (stat_density).

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 47 rows containing missing values

## Warning: Removed 57 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing missing values (geom_point).


## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 81 rows containing missing values (geom_point).

## Warning: Removed 46 rows containing missing values (geom_point).

## Warning: Removed 47 rows containing missing values (geom_point).

## Warning: Removed 3 rows containing non-finite values (stat_density).
```

Hits per game

	ï..Day...15	Day...20	AB...2020	Ab...2019	AB..2018	AB...2017	AB...2016	
		Corr: 1.000***	Corr: −0.121	Corr: −0.164	Corr: 0.033	Corr: −0.018	Corr: −0.060	..Day...1!
			Corr: −0.121	Corr: −0.015	Corr: 0.152	Corr: 0.116	Corr: 0.138	Day...20
				Corr: −0.128	Corr: −0.144	Corr: −0.060	Corr: −0.182	\B...202(
					Corr: 0.066	Corr: −0.046	Corr: 0.166	\b..2019
						Corr: 0.148	Corr: −0.071	\B..2018
							Corr: −0.114	\B...201;
								\B...2016
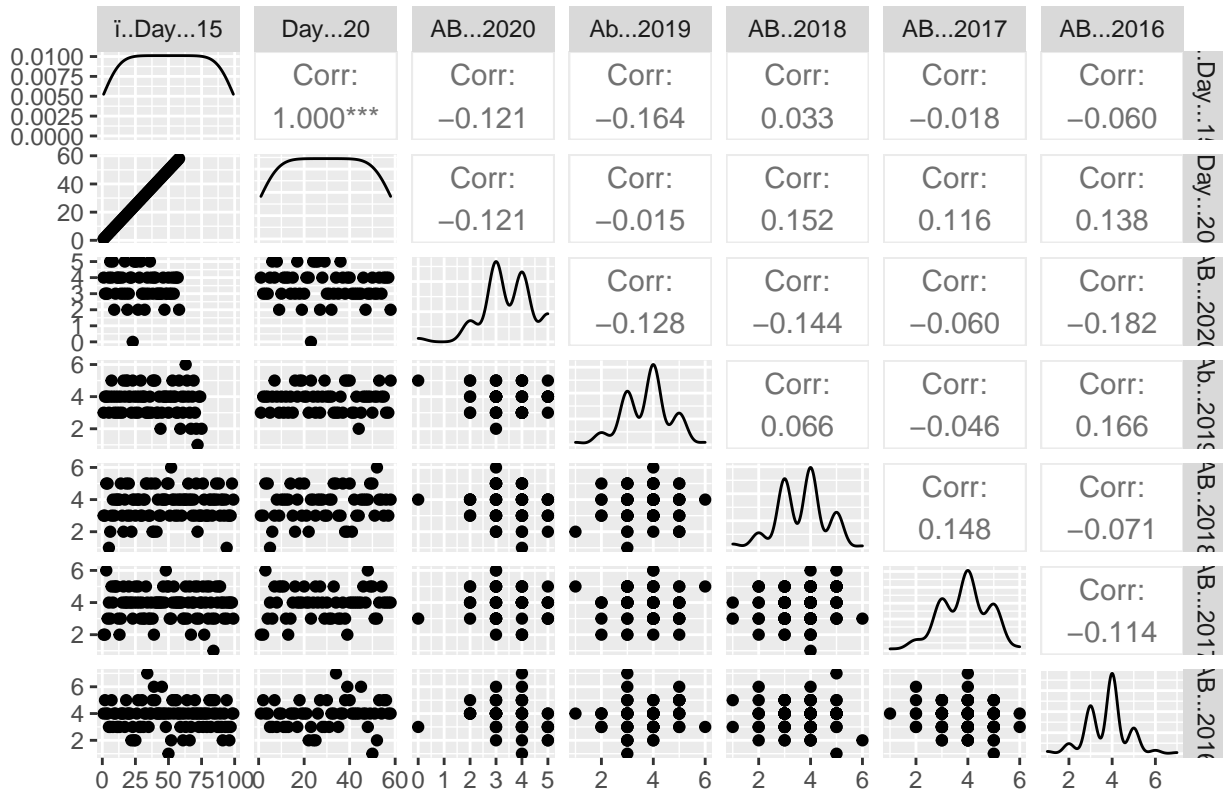
```
ggpairs(bat, columns = c(5, 9, 13, 17, 21, 25), title = "hits")
```

Warning: Removed 81 rows containing non-finite values (stat_density).

Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
Removed 98 rows containing missing values

Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
Removed 81 rows containing missing values

Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
Removed 81 rows containing missing values

Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
Removed 81 rows containing missing values

Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
Removed 81 rows containing missing values

Warning: Removed 98 rows containing missing values (geom_point).

Warning: Removed 98 rows containing non-finite values (stat_density).

Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
Removed 98 rows containing missing values

Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
Removed 98 rows containing missing values

```
## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 98 rows containing missing values

## Warning: Removed 81 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 81 rows containing non-finite values (stat_density).

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 81 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 81 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 81 rows containing missing values

## Warning: Removed 81 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 81 rows containing missing values (geom_point).

## Warning: Removed 46 rows containing non-finite values (stat_density).

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 47 rows containing missing values

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 46 rows containing missing values

## Warning: Removed 81 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 81 rows containing missing values (geom_point).

## Warning: Removed 47 rows containing missing values (geom_point).

## Warning: Removed 47 rows containing non-finite values (stat_density).

## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 47 rows containing missing values

## Warning: Removed 81 rows containing missing values (geom_point).

## Warning: Removed 98 rows containing missing values (geom_point).

## Warning: Removed 81 rows containing missing values (geom_point).

## Warning: Removed 46 rows containing missing values (geom_point).

## Warning: Removed 47 rows containing missing values (geom_point).

## Warning: Removed 3 rows containing non-finite values (stat_density).
```

hits


```
plot(x = bat$Day, y = bat$Y.N.19, type = "p",xlab = "Day", ylab = "Safely Hit", main = "Hits by day - Al
lines(bat$Y.N.20, type = "p", col = "orange")
lines(bat$Y.N.18, type = "p", col = "green")
lines(bat$Y.N.17, type = "p", col = "yellow")
lines(bat$Y.N.16, type = "p", col = "red")
lines(bat$Y.N.15, type = "p", col = "purple")
```
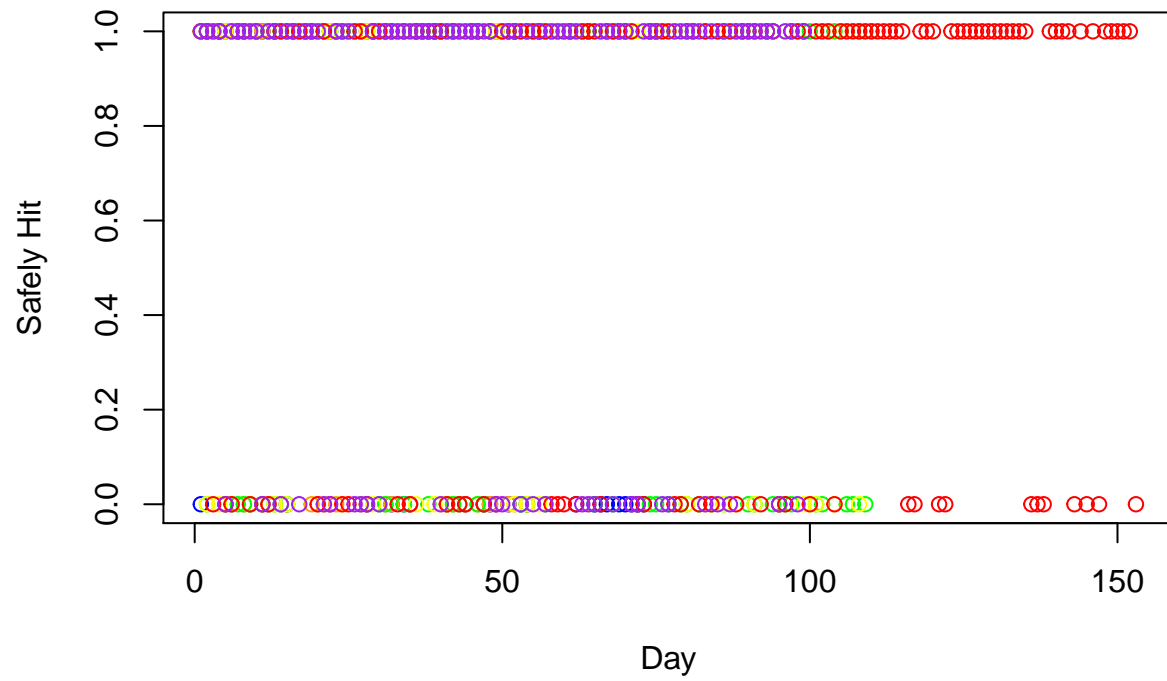
Hits by day – All


```
plot(x = bat$Day...20, y = bat$Y.N.20, type = "p",xlab = "Day", ylab = "Safely Hit", main = "Hits by da
```
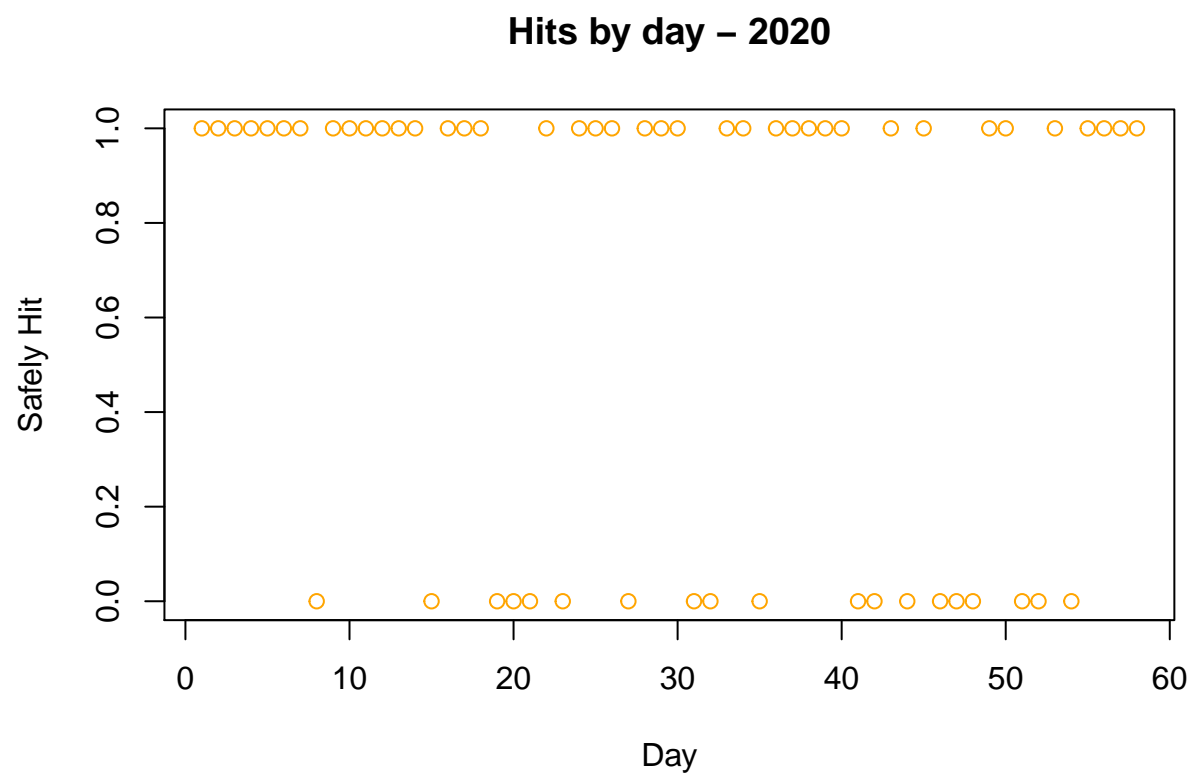
Hits by day – 2020


```
plot(x = bat$Day...19, y = bat$Y.N.19, type = "p",xlab = "Day", ylab = "Safely Hit", main = "Hits by da
```
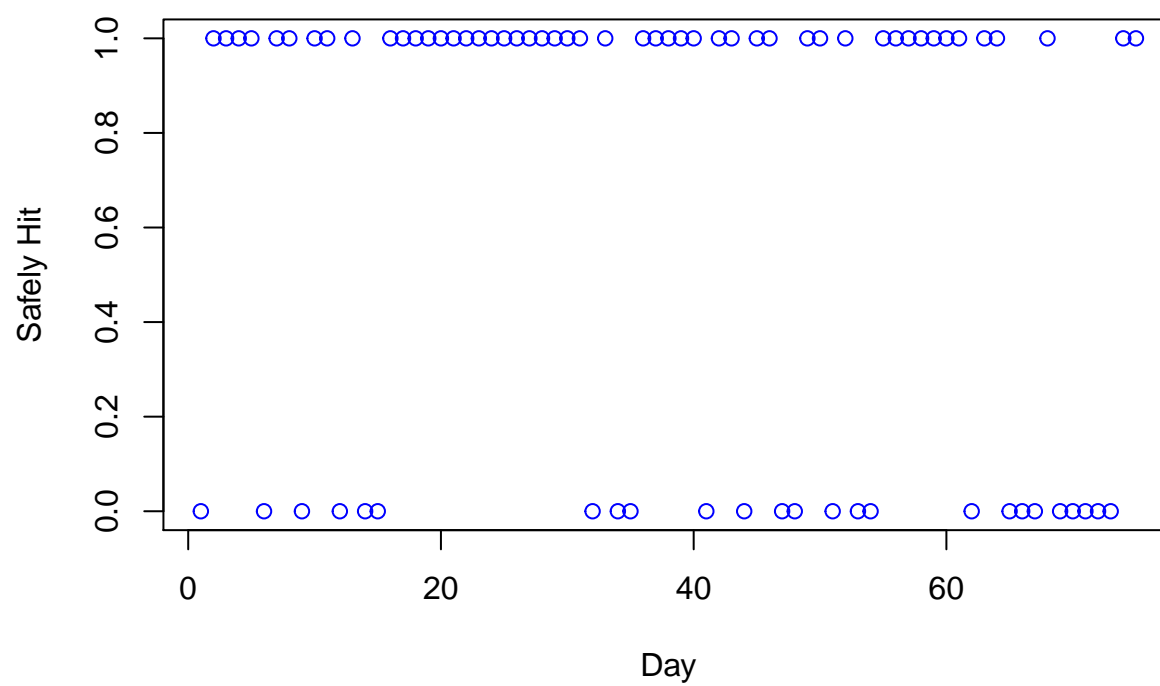
Hits by day – 2019


```
plot(x = bat$Day...18, y = bat$Y.N.18, type = "p",xlab = "Day", ylab = "Safely Hit", main = "Hits by day
```

Hits by day 2018
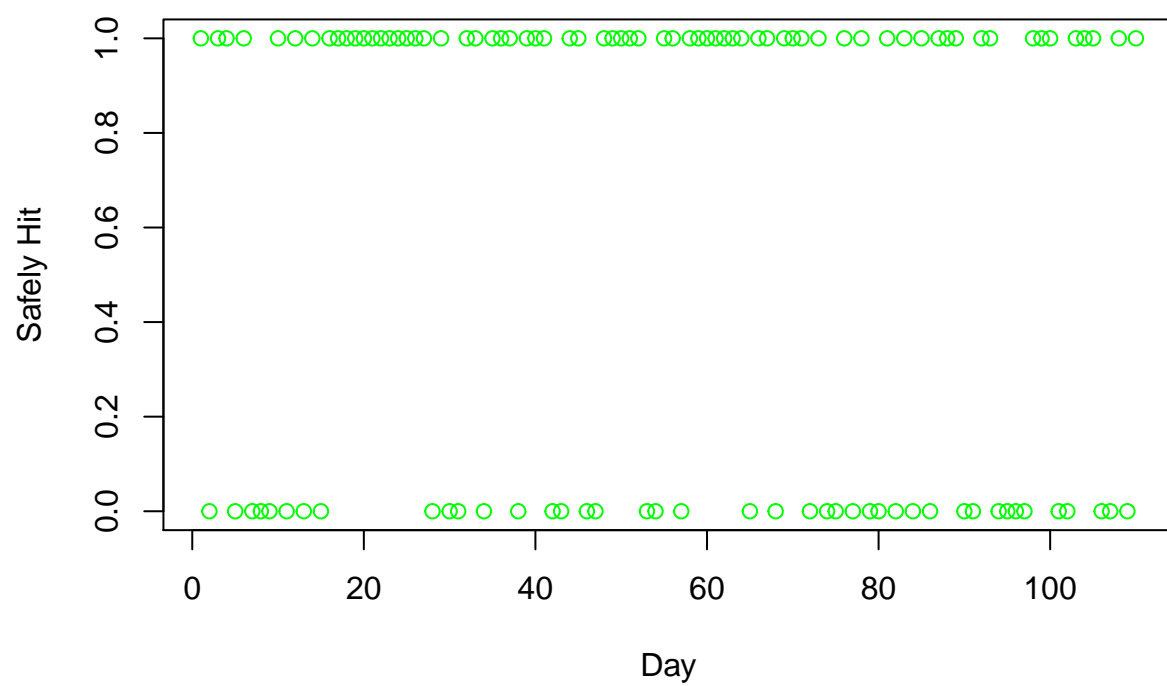

```
plot(x = bat$Day...17, y = bat$Y.N.17, type = "p",xlab = "Day", ylab = "Safely Hit", main = "Hits by day
```
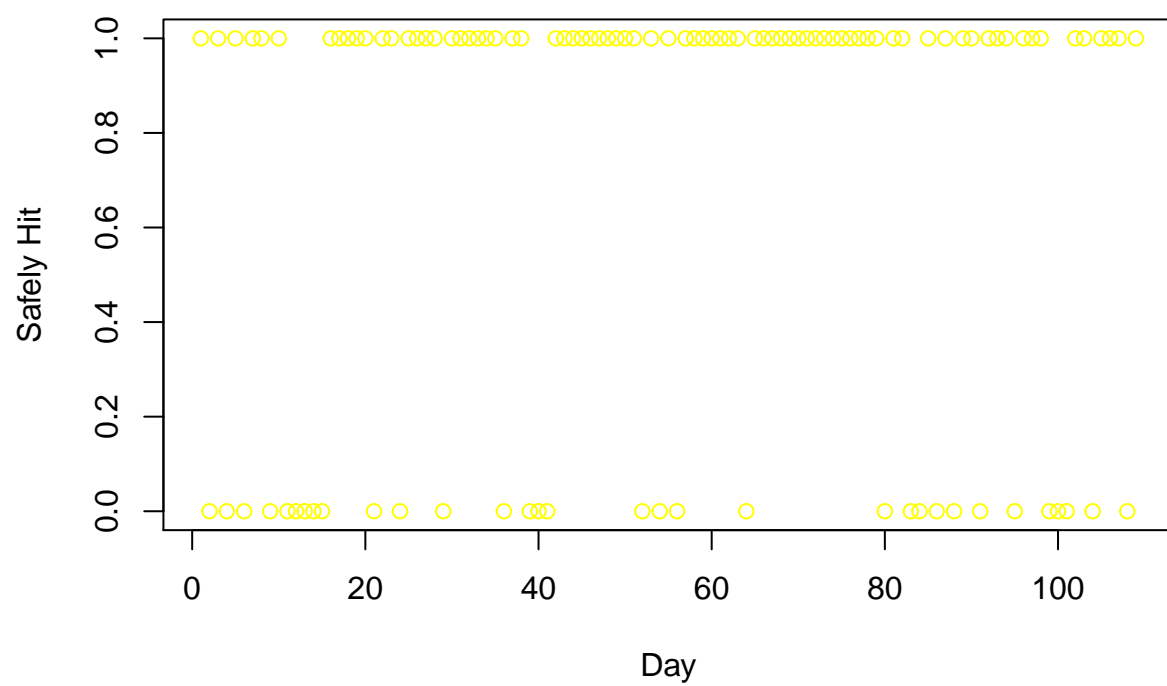
Hits by day – 2017


```
plot(x = bat$Day, y = bat$Y.N.16, type = "p",xlab = "Day", ylab = "Safely Hit", main = "Hits by day  – ...
```
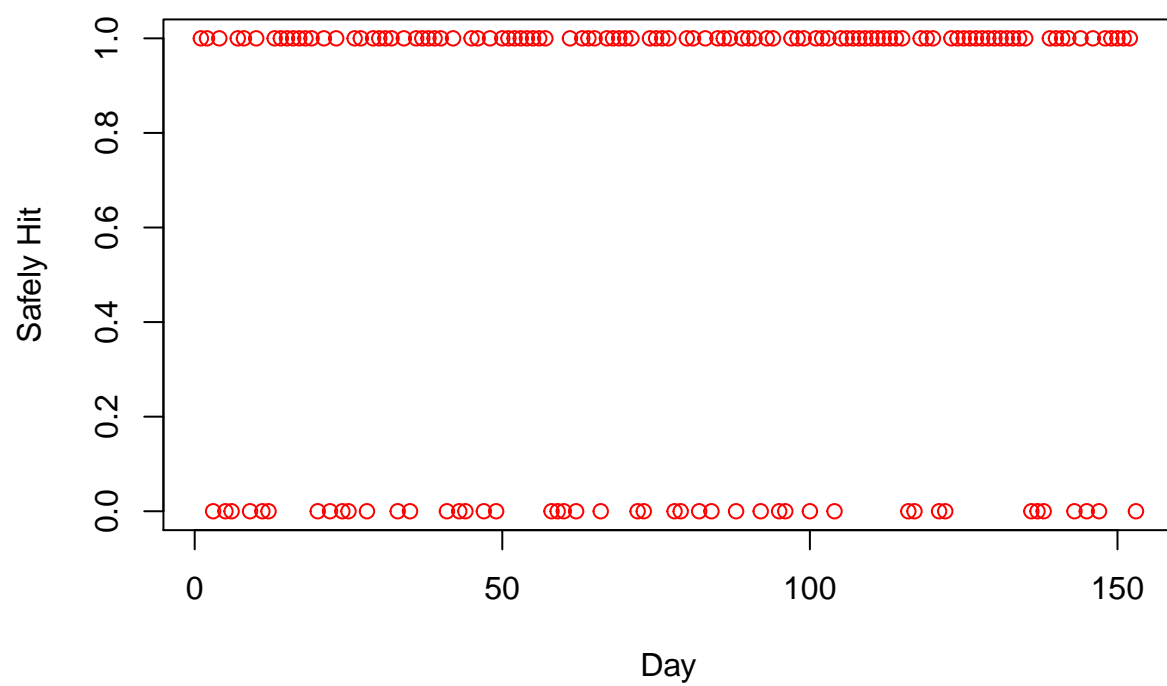
Hits by day – 2016


```
plot(x = bat$ï..Day...15, y = bat$Y.N.15, type = "p",xlab = "Day", ylab = "Safely Hit", main = "Hits by
```

Hits by day – 2015
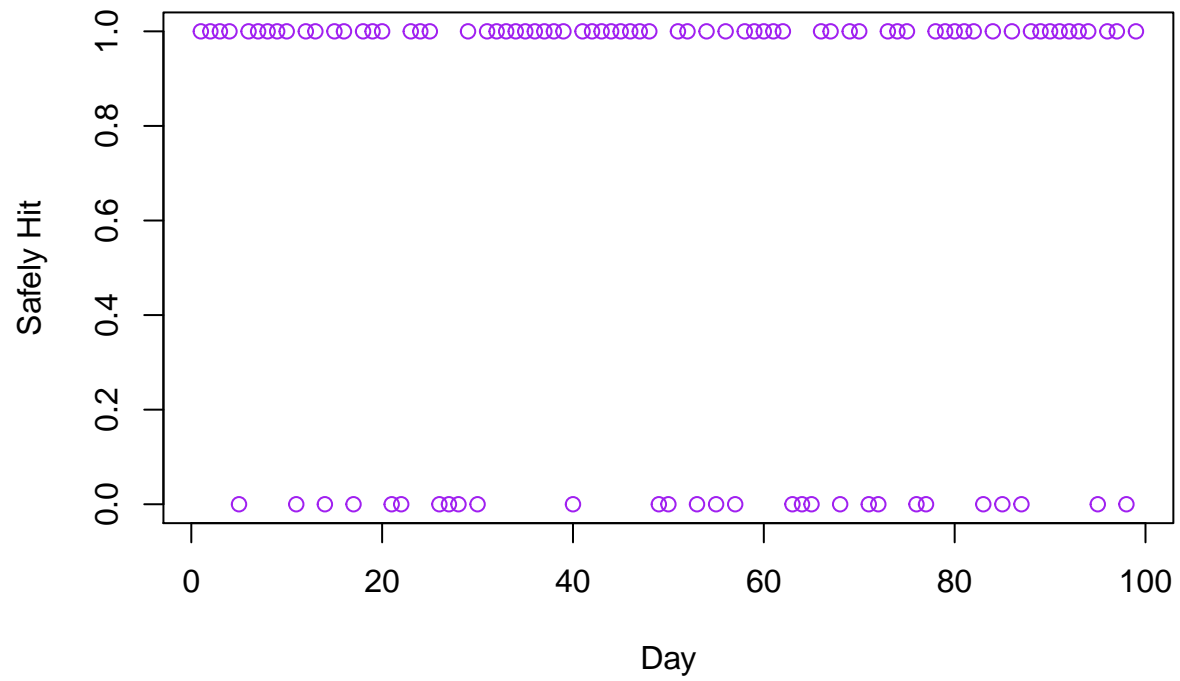

```
boxplot(data = bat, x = bat$AB...2020, ylab = "At Bats", main = "At Bats per Game in 2020")
```

At Bats per Game in 2020
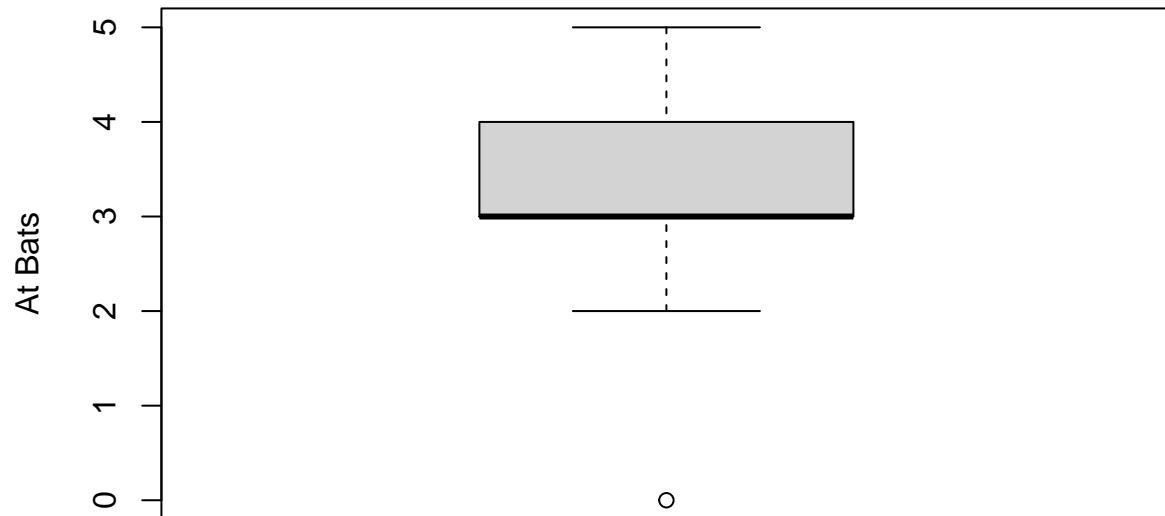

```
boxplot(data = bat, x = bat$Ab...2019, ylab = "At Bats", main = "At Bats per Game in 2019")
```

At Bats per Game in 2019
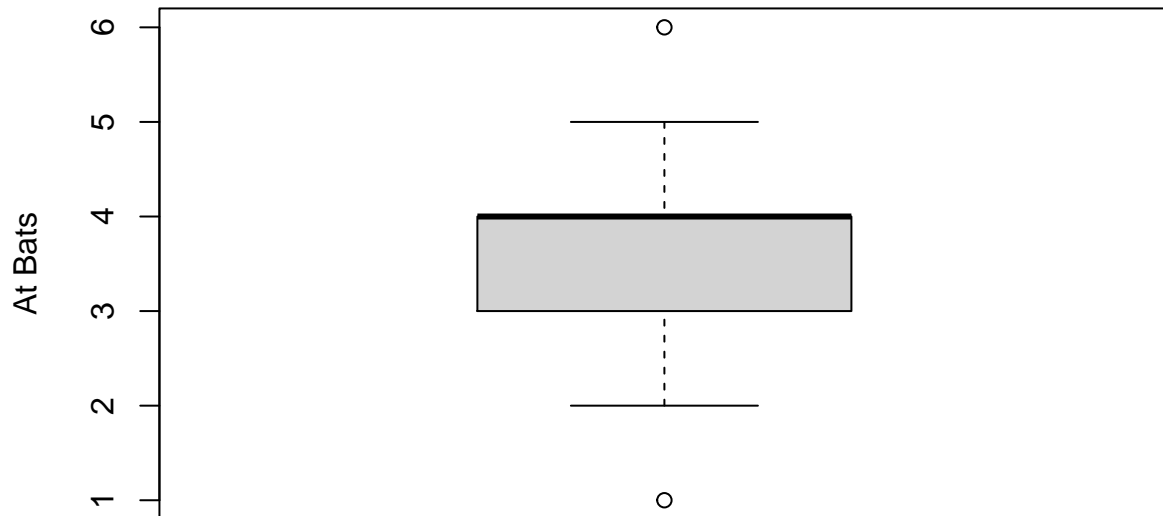

```
boxplot(data = bat, x = bat$AB..2018, ylab = "At Bats", main = "At Bats per Game in 2018")
```
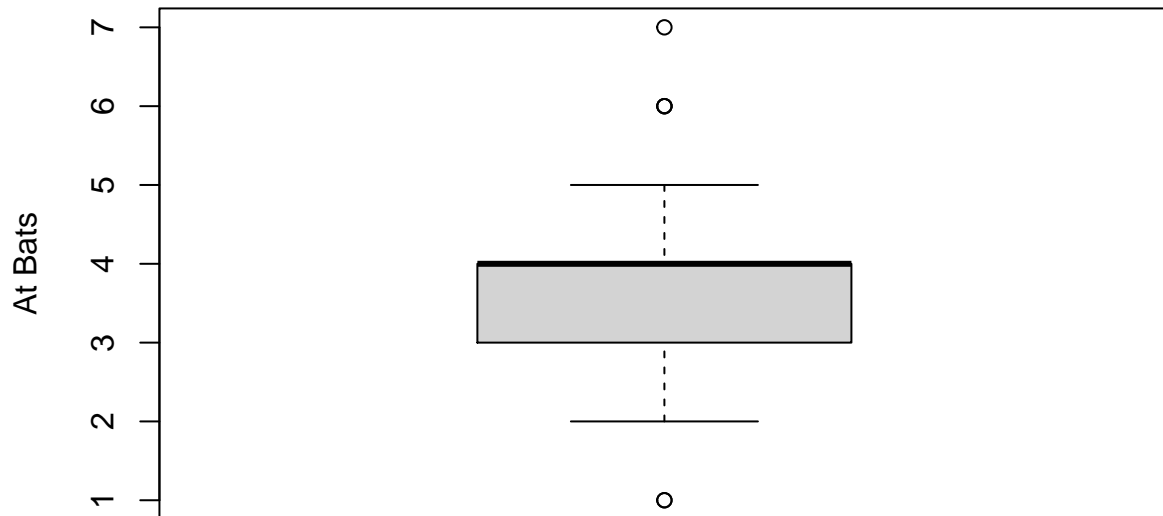
At Bats per Game in 2018
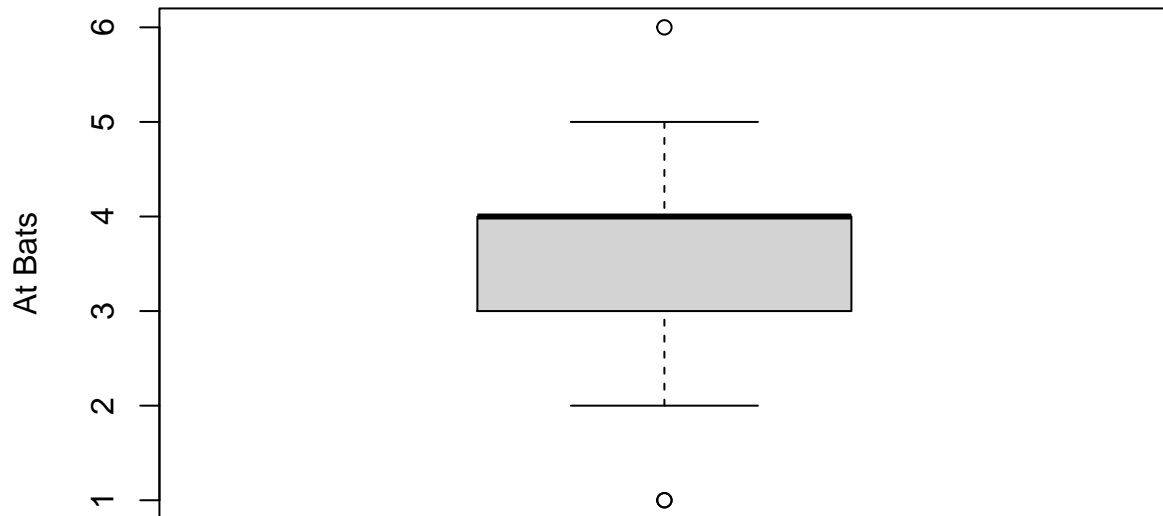

```
boxplot(data = bat, x = bat$AB...2017, ylab = "At Bats", main = "At Bats per Game in 2017")
```

At Bats per Game in 2017
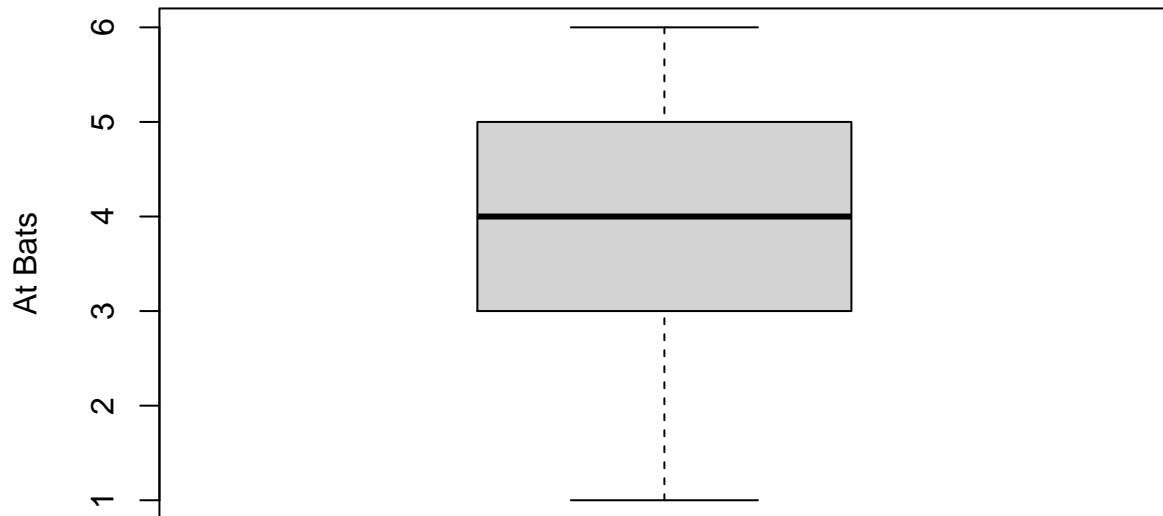

```
boxplot(data = bat, x = bat$AB...2016, ylab = "At Bats", main = "At Bats per Game in 2016")
```

At Bats per Game in 2016


```r
boxplot(data = bat, x = bat$AB...2015, ylab = "At Bats", main = "At Bats per Game in 2015")
```

At Bats per Game in 2015