

Best Fantasy Player of All Time

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2019-03-20

One of the things I have always wondered about AFL fantasy is just who is the best fantasy player of all time? Not the fan who wins the most but who is the best player.

So one possible idea would be to work out the fantasy scores of players going back for all the time that is possible (YAY fitzRoy!). From there, let's look at the z-score of players in the individual year look at a plot for all years we have fantasy available and do some exploration.

Step One - Work out Fantasy Scores

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse
```

```
## v ggplot2 3.1.0      v purrr  0.3.2
## v tibble  2.1.1      v dplyr  0.8.0.1
## v tidyr   0.8.3      v stringr 1.4.0
## v readr   1.3.1      v forcats 0.4.0
```

```
## -- Conflicts ----- tidyverse_conflicts::
```

```
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
df<-fitzRoy::get_afltables_stats(start_date="1987-01-01", end_date = "2018-10-10")%>%
  mutate(AF=3*Kicks + 2*Handballs + 3*Marks +
         4*Tackles+ Frees.For -
         3*Frees.Against +Hit.Outs+
         6*Goals +Behinds)
```

```
## Returning data from 1987-01-01 to 2018-10-10
```

```
## Downloading data
```

```
##
```

```
## Finished downloading data. Processing XMLs
```

```
## Warning: Detecting old grouped_df format, replacing `vars` attribute by
## `groups`
```

```
## Finished getting afltables data
```

Once we have worked out the fantasy scores we need to come up with our filters and our groups with of course sensible checks and balances.

We know that tackles first started getting recorded in 1987, so let's filter our dataset by `Season > 1986`

```
df%>%
```

```
  filter(Season>1986)
```

```
## # A tibble: 254,507 x 60
```

```
##   Season Round Date      Local.start.time Venue Attendance Home.team
```

```
##      <dbl> <chr> <date>                <int> <chr>          <int> <chr>
## 1  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 2  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 3  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 4  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 5  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 6  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 7  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 8  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 9  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 10 1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## # ... with 254,497 more rows, and 53 more variables: HQ1G <int>,
## #   HQ1B <int>, HQ2G <int>, HQ2B <int>, HQ3G <int>, HQ3B <int>,
## #   HQ4G <int>, HQ4B <int>, Home.score <int>, Away.team <chr>, AQ1G <int>,
## #   AQ1B <int>, AQ2G <int>, AQ2B <int>, AQ3G <int>, AQ3B <int>,
## #   AQ4G <int>, AQ4B <int>, Away.score <int>, First.name <chr>,
## #   Surname <chr>, ID <dbl>, Jumper.No. <dbl>, Playing.for <chr>,
## #   Kicks <dbl>, Marks <dbl>, Handballs <dbl>, Goals <dbl>, Behinds <dbl>,
## #   Hit.Outs <dbl>, Tackles <dbl>, Rebounds <dbl>, Inside.50s <dbl>,
## #   Clearances <dbl>, Clangers <dbl>, Frees.For <dbl>,
## #   Frees.Against <dbl>, Brownlow.Votes <dbl>,
## #   Contested.Possessions <dbl>, Uncontested.Possessions <dbl>,
## #   Contested.Marks <dbl>, Marks.Inside.50 <dbl>, One.Percenters <dbl>,
## #   Bounces <dbl>, Goal.Assists <dbl>, Time.on.Ground.. <int>,
## #   Substitute <int>, Umpire.1 <chr>, Umpire.2 <chr>, Umpire.3 <chr>,
## #   Umpire.4 <chr>, group_id <int>, AF <dbl>
```

Our next stage, we are going to add a count of the games each player played in during the Season, we make this decision because we want to have a look at players who had the best season, not just the best games and 10 seems like a reasonable cut off

```
df%>%
  filter(Season>1986)%>%
  group_by(Season, ID)%>%
  mutate(countgames=n())

## # A tibble: 254,507 x 61
## # Groups:   Season, ID [18,678]
##      Season Round Date                Local.start.time Venue Attendance Home.team
##      <dbl> <chr> <date>                <int> <chr>          <int> <chr>
## 1  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 2  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 3  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 4  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 5  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 6  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 7  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 8  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 9  1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## 10 1991 1      1991-03-22                1940 Foot~        44902 Adelaide
## # ... with 254,497 more rows, and 54 more variables: HQ1G <int>,
## #   HQ1B <int>, HQ2G <int>, HQ2B <int>, HQ3G <int>, HQ3B <int>,
## #   HQ4G <int>, HQ4B <int>, Home.score <int>, Away.team <chr>, AQ1G <int>,
## #   AQ1B <int>, AQ2G <int>, AQ2B <int>, AQ3G <int>, AQ3B <int>,
## #   AQ4G <int>, AQ4B <int>, Away.score <int>, First.name <chr>,
```

```
## # Surname <chr>, ID <dbl>, Jumper.No. <dbl>, Playing.for <chr>,
## # Kicks <dbl>, Marks <dbl>, Handballs <dbl>, Goals <dbl>, Behinds <dbl>,
## # Hit.Outs <dbl>, Tackles <dbl>, Rebounds <dbl>, Inside.50s <dbl>,
## # Clearances <dbl>, Clangers <dbl>, Frees.For <dbl>,
## # Frees.Against <dbl>, Brownlow.Votes <dbl>,
## # Contested.Possessions <dbl>, Uncontested.Possessions <dbl>,
## # Contested.Marks <dbl>, Marks.Inside.50 <dbl>, One.Percenters <dbl>,
## # Bounces <dbl>, Goal.Assists <dbl>, Time.on.Ground.. <int>,
## # Substitute <int>, Umpire.1 <chr>, Umpire.2 <chr>, Umpire.3 <chr>,
## # Umpire.4 <chr>, group_id <int>, AF <dbl>, countgames <int>
```

Our next stage is that we want to work out the z-scores of the fantasy players per game by by season

```
df%>%
  filter(Season>1986)%>%
  group_by(Season, ID)%>%
  mutate(countgames=n())%>%
  group_by(Season)%>%
  mutate(Z_score=(AF-mean(AF))/sd(AF))
```

```
## # A tibble: 254,507 x 62
## # Groups:   Season [32]
##   Season Round Date      Local.start.time Venue Attendance Home.team
##   <dbl> <chr> <date>          <int> <chr>          <int> <chr>
## 1 1991 1 1991-03-22 1940 Foot~ 44902 Adelaide
## 2 1991 1 1991-03-22 1940 Foot~ 44902 Adelaide
## 3 1991 1 1991-03-22 1940 Foot~ 44902 Adelaide
## 4 1991 1 1991-03-22 1940 Foot~ 44902 Adelaide
## 5 1991 1 1991-03-22 1940 Foot~ 44902 Adelaide
## 6 1991 1 1991-03-22 1940 Foot~ 44902 Adelaide
## 7 1991 1 1991-03-22 1940 Foot~ 44902 Adelaide
## 8 1991 1 1991-03-22 1940 Foot~ 44902 Adelaide
## 9 1991 1 1991-03-22 1940 Foot~ 44902 Adelaide
## 10 1991 1 1991-03-22 1940 Foot~ 44902 Adelaide
## # ... with 254,497 more rows, and 55 more variables: HQ1G <int>,
## # HQ1B <int>, HQ2G <int>, HQ2B <int>, HQ3G <int>, HQ3B <int>,
## # HQ4G <int>, HQ4B <int>, Home.score <int>, Away.team <chr>, AQ1G <int>,
## # AQ1B <int>, AQ2G <int>, AQ2B <int>, AQ3G <int>, AQ3B <int>,
## # AQ4G <int>, AQ4B <int>, Away.score <int>, First.name <chr>,
## # Surname <chr>, ID <dbl>, Jumper.No. <dbl>, Playing.for <chr>,
## # Kicks <dbl>, Marks <dbl>, Handballs <dbl>, Goals <dbl>, Behinds <dbl>,
## # Hit.Outs <dbl>, Tackles <dbl>, Rebounds <dbl>, Inside.50s <dbl>,
## # Clearances <dbl>, Clangers <dbl>, Frees.For <dbl>,
## # Frees.Against <dbl>, Brownlow.Votes <dbl>,
## # Contested.Possessions <dbl>, Uncontested.Possessions <dbl>,
## # Contested.Marks <dbl>, Marks.Inside.50 <dbl>, One.Percenters <dbl>,
## # Bounces <dbl>, Goal.Assists <dbl>, Time.on.Ground.. <int>,
## # Substitute <int>, Umpire.1 <chr>, Umpire.2 <chr>, Umpire.3 <chr>,
## # Umpire.4 <chr>, group_id <int>, AF <dbl>, countgames <int>,
## # Z_score <dbl>
```

After finding the Z_score, we can do a check. What we want to see is that for each season our Z_score column has a mean of 0 and a variance of 1. We can also produce the summaries of the other variables by Season to check our other created columns like countgames make sense

```
df%>%
  filter(Season>1986)%>%
  group_by(Season, ID)%>%
  mutate(countgames=n())%>%
  group_by(Season)%>%
  mutate(Z_score=(AF-mean(AF))/sd(AF))%>%
  split(.$Season)%>%map(summary)
```

```
## $`1987`
##      Season      Round      Date      Local.start.time
##  Min.   :1987   Length:6400   Min.   :1987-03-27   Min.   :1210
##  1st Qu.:1987   Class :character 1st Qu.:1987-05-02   1st Qu.:1410
##  Median :1987   Mode  :character Median :1987-06-13   Median :1410
##  Mean   :1987                      Mean  :1987-06-15   Mean  :1458
##  3rd Qu.:1987                      3rd Qu.:1987-07-31   3rd Qu.:1410
##  Max.   :1987                      Max.   :1987-09-26   Max.   :1940
##      Venue      Attendance      Home.team      HQ1G
##  Length:6400   Min.   : 4859   Length:6400   Min.   :0.000
##  Class :character 1st Qu.:14086   Class :character 1st Qu.:2.000
##  Mode  :character Median :17810   Mode  :character Median :4.000
##                      Mean   :21370                      Mean   :3.669
##                      3rd Qu.:24239                      3rd Qu.:5.000
##                      Max.    :92754                      Max.    :9.000
##      HQ1B      HQ2G      HQ2B      HQ3G
##  Min.   : 0.000   Min.   : 1.000   Min.   : 0.000   Min.   : 1.00
##  1st Qu.: 2.000   1st Qu.: 6.000   1st Qu.: 5.000   1st Qu.: 9.00
##  Median : 4.000   Median : 8.000   Median : 7.000   Median :11.00
##  Mean   : 3.769   Mean   : 7.731   Mean   : 7.106   Mean   :11.86
##  3rd Qu.: 5.000   3rd Qu.:10.000   3rd Qu.: 9.000   3rd Qu.:15.00
##  Max.   :10.000   Max.   :17.000   Max.   :14.000   Max.   :23.00
##      HQ3B      HQ4G      HQ4B      Home.score
##  Min.   : 2.00   Min.   : 2.00   Min.   : 3.00   Min.   : 18.0
##  1st Qu.: 8.00   1st Qu.:13.00   1st Qu.:10.75   1st Qu.: 89.0
##  Median :10.00   Median :16.00   Median :14.00   Median :110.0
##  Mean   :10.51   Mean   :16.24   Mean   :13.99   Mean   :111.5
##  3rd Qu.:13.00   3rd Qu.:20.00   3rd Qu.:17.00   3rd Qu.:131.5
##  Max.   :22.00   Max.   :36.00   Max.   :29.00   Max.   :236.0
##      Away.team      AQ1G      AQ1B      AQ2G
##  Length:6400   Min.   :0.000   Min.   :0.000   Min.   : 0.000
##  Class :character 1st Qu.:2.000   1st Qu.:2.000   1st Qu.: 5.000
##  Mode  :character Median :3.000   Median :3.000   Median : 7.000
##                      Mean   :3.294   Mean   :3.269   Mean   : 6.825
##                      3rd Qu.:5.000   3rd Qu.:4.250   3rd Qu.: 8.000
##                      Max.    :7.000   Max.    :9.000   Max.    :14.000
##      AQ2B      AQ3G      AQ3B      AQ4G
##  Min.   : 0.000   Min.   : 2.00   Min.   : 1.000   Min.   : 3.00
##  1st Qu.: 4.000   1st Qu.: 7.00   1st Qu.: 7.000   1st Qu.:10.00
##  Median : 6.000   Median :10.00   Median : 9.000   Median :14.00
##  Mean   : 6.263   Mean   :10.43   Mean   : 9.575   Mean   :14.02
##  3rd Qu.: 8.000   3rd Qu.:13.00   3rd Qu.:12.000   3rd Qu.:17.00
##  Max.   :14.000   Max.   :21.00   Max.   :19.000   Max.   :27.00
##      AQ4B      Away.score      First.name      Surname
##  Min.   : 2.00   Min.   : 27.00   Length:6400      Length:6400
##  1st Qu.: 9.00   1st Qu.: 71.75   Class :character   Class :character
```

```

## Median :12.00    Median : 97.50    Mode :character    Mode :character
## Mean :12.85     Mean : 96.96
## 3rd Qu.:16.00    3rd Qu.:119.00
## Max. :26.00     Max. :176.00
##      ID          Jumper.No.    Playing.for        Kicks
## Min. : 18       Min. : 1.00    Length:6400        Min. : 0.00
## 1st Qu.: 1164    1st Qu.: 9.00    Class :character    1st Qu.: 6.00
## Median : 1372    Median :19.00    Mode :character     Median :10.00
## Mean : 2281     Mean :20.91                      Mean : 9.94
## 3rd Qu.: 1900    3rd Qu.:31.00                      3rd Qu.:13.00
## Max. :11388     Max. :63.00                      Max. :32.00
##      Marks      Handballs      Goals      Behinds
## Min. : 0.000    Min. : 0.000    Min. : 0.0000     Min. :0.0000
## 1st Qu.: 2.000    1st Qu.: 3.000    1st Qu.: 0.0000     1st Qu.:0.0000
## Median : 3.000    Median : 4.000    Median : 0.0000     Median :0.0000
## Mean : 3.338     Mean : 5.148     Mean : 0.7566     Mean :0.5856
## 3rd Qu.: 5.000    3rd Qu.: 7.000    3rd Qu.: 1.0000     3rd Qu.:1.0000
## Max. :17.000     Max. :28.000     Max. :12.0000     Max. :8.0000
##      Hit.Outs      Tackles      Rebounds      Inside.50s      Clearances
## Min. : 0.0000     Min. : 0.000    Min. :0      Min. :0      Min. :0
## 1st Qu.: 0.0000    1st Qu.: 0.000    1st Qu.:0      1st Qu.:0      1st Qu.:0
## Median : 0.0000    Median : 1.000    Median :0      Median :0      Median :0
## Mean : 0.9625     Mean : 1.254     Mean :0      Mean :0      Mean :0
## 3rd Qu.: 0.0000    3rd Qu.: 2.000    3rd Qu.:0      3rd Qu.:0      3rd Qu.:0
## Max. :34.0000     Max. :12.000     Max. :0      Max. :0      Max. :0
##      Clangers      Frees.For      Frees.Against      Brownlow.Votes
## Min. :0      Min. :0.000    Min. :0.000    Min. :0.0000
## 1st Qu.:0      1st Qu.:0.000    1st Qu.:0.000    1st Qu.:0.0000
## Median :0      Median :1.000    Median :1.000    Median :0.0000
## Mean :0      Mean :1.444     Mean :1.445     Mean :0.1444
## 3rd Qu.:0      3rd Qu.:2.000    3rd Qu.:2.000    3rd Qu.:0.0000
## Max. :0      Max. :9.000     Max. :8.000     Max. :3.0000
## Contested.Possessions Uncontested.Possessions Contested.Marks
## Min. :0      Min. :0      Min. :0
## 1st Qu.:0      1st Qu.:0      1st Qu.:0
## Median :0      Median :0      Median :0
## Mean :0      Mean :0      Mean :0
## 3rd Qu.:0      3rd Qu.:0      3rd Qu.:0
## Max. :0      Max. :0      Max. :0
## Marks.Inside.50 One.Percenters      Bounces      Goal.Assists      Time.on.Ground..
## Min. :0      Min. :0      Min. :0      Min. :0      Min. :0
## 1st Qu.:0      1st Qu.:0      1st Qu.:0      1st Qu.:0      1st Qu.:0
## Median :0      Median :0      Median :0      Median :0      Median :0
## Mean :0      Mean :0      Mean :0      Mean :0      Mean :0
## 3rd Qu.:0      3rd Qu.:0      3rd Qu.:0      3rd Qu.:0      3rd Qu.:0
## Max. :0      Max. :0      Max. :0      Max. :0      Max. :0
##      Substitute      Umpire.1      Umpire.2      Umpire.3
## Min. :0      Length:6400      Length:6400      Length:6400
## 1st Qu.:0      Class :character    Class :character    Class :character
## Median :0      Mode :character     Mode :character     Mode :character
## Mean :0
## 3rd Qu.:0
## Max. :0
##      Umpire.4      group_id      AF      countgames

```

```

## Length:6400      Min.      :9493      Min.      : -6.00      Min.      : 1.00
## Class :character  1st Qu.:9533      1st Qu.: 39.00      1st Qu.:13.00
## Mode :character   Median :9572      Median : 57.00      Median :18.00
##                  Mean  :9572      Mean  : 58.34      Mean  :16.74
##                  3rd Qu.:9612      3rd Qu.: 76.00      3rd Qu.:21.00
##                  Max.   :9652      Max.   :177.00      Max.   :26.00
##      Z_score
## Min.      : -2.36356
## 1st Qu.: -0.71048
## Median : -0.04924
## Mean  : 0.00000
## 3rd Qu.: 0.64873
## Max.   : 4.35898
##
## $`1988`
##      Season      Round      Date      Local.start.time
## Min.      :1988      Length:6400      Min.      :1988-04-02      Min.      :1410
## 1st Qu.:1988      Class :character  1st Qu.:1988-05-07      1st Qu.:1410
## Median :1988      Mode :character   Median :1988-06-18      Median :1410
## Mean  :1988
## 3rd Qu.:1988
## Max.   :1988
##                  3rd Qu.:1988-07-29      3rd Qu.:1410
## Max.   :1988-09-24      Max.   :1940
##      Venue      Attendance      Home.team      HQ1G
## Length:6400      Min.      : 7157      Length:6400      Min.      : 0.000
## Class :character  1st Qu.:13322      Class :character  1st Qu.: 2.000
## Mode :character   Median :17050      Mode :character   Median : 3.000
##                  Mean  :22055
##                  3rd Qu.:24246
## Max.   :93754
##                  Max.   :11.000
##      HQ1B      HQ2G      HQ2B      HQ3G
## Min.      : 0.000      Min.      : 2.000      Min.      : 2.000      Min.      : 2.00
## 1st Qu.: 2.000      1st Qu.: 5.000      1st Qu.: 5.000      1st Qu.: 7.00
## Median : 3.000      Median : 7.000      Median : 6.000      Median :10.00
## Mean  : 3.481      Mean  : 7.125      Mean  : 6.906      Mean  :10.75
## 3rd Qu.: 5.000      3rd Qu.: 9.000      3rd Qu.: 9.000      3rd Qu.:13.00
## Max.   :10.000      Max.   :16.000      Max.   :13.000      Max.   :22.00
##      HQ3B      HQ4G      HQ4B      Home.score
## Min.      : 4.00      Min.      : 3.00      Min.      : 6.00      Min.      : 29.0
## 1st Qu.: 8.00      1st Qu.:11.00      1st Qu.:11.75      1st Qu.: 77.0
## Median :10.00      Median :14.00      Median :14.00      Median : 98.5
## Mean  :10.39      Mean  :14.66      Mean  :14.25      Mean  :102.2
## 3rd Qu.:13.00      3rd Qu.:18.00      3rd Qu.:17.25      3rd Qu.:122.0
## Max.   :20.00      Max.   :29.00      Max.   :24.00      Max.   :194.0
##      Away.team      AQ1G      AQ1B      AQ2G
## Length:6400      Min.      : 0.000      Min.      : 0.000      Min.      : 1.000
## Class :character  1st Qu.: 2.000      1st Qu.: 2.000      1st Qu.: 4.000
## Mode :character   Median : 3.000      Median : 3.000      Median : 6.000
##                  Mean  : 3.356      Mean  : 3.219      Mean  : 6.519
##                  3rd Qu.: 4.000      3rd Qu.: 4.000      3rd Qu.: 9.000
##                  Max.   :10.000      Max.   :10.000      Max.   :16.000
##      AQ2B      AQ3G      AQ3B      AQ4G
## Min.      : 2.000      Min.      : 1.000      Min.      : 2.000      Min.      : 2.00
## 1st Qu.: 5.000      1st Qu.: 7.000      1st Qu.: 7.000      1st Qu.:10.00
## Median : 6.000      Median :10.000      Median :10.000      Median :13.00

```

##	Mean	: 6.444	Mean	: 9.844	Mean	: 9.519	Mean	:13.28
##	3rd Qu.:	8.000	3rd Qu.:	13.000	3rd Qu.:	11.000	3rd Qu.:	16.00
##	Max.	:16.000	Max.	:25.000	Max.	:20.000	Max.	:31.00
##	AQ4B		Away.score		First.name		Surname	
##	Min.	: 5.0	Min.	: 17.00	Length:6400		Length:6400	
##	1st Qu.:	10.0	1st Qu.:	69.00	Class :character		Class :character	
##	Median	:12.5	Median	: 91.50	Mode :character		Mode :character	
##	Mean	:12.8	Mean	: 92.49				
##	3rd Qu.:	16.0	3rd Qu.:	110.25				
##	Max.	:22.0	Max.	:205.00				
##	ID		Jumper.No.		Playing.for		Kicks	
##	Min.	: 13	Min.	: 1.00	Length:6400		Min.	: 0.00
##	1st Qu.:	763	1st Qu.:	9.00	Class :character		1st Qu.:	7.00
##	Median	: 1319	Median	:19.00	Mode :character		Median	:10.00
##	Mean	: 1989	Mean	:20.93			Mean	:10.43
##	3rd Qu.:	1640	3rd Qu.:	31.00			3rd Qu.:	14.00
##	Max.	:11420	Max.	:60.00			Max.	:35.00
##	Marks		Handballs		Goals		Behinds	
##	Min.	: 0.000	Min.	: 0.000	Min.	: 0.0000	Min.	:0.000
##	1st Qu.:	2.000	1st Qu.:	2.000	1st Qu.:	0.0000	1st Qu.:	0.000
##	Median	: 3.000	Median	: 4.000	Median	: 0.0000	Median	:0.000
##	Mean	: 3.482	Mean	: 4.981	Mean	: 0.6984	Mean	:0.585
##	3rd Qu.:	5.000	3rd Qu.:	7.000	3rd Qu.:	1.0000	3rd Qu.:	1.000
##	Max.	:16.000	Max.	:25.000	Max.	:11.0000	Max.	:8.000
##	Hit.Outs		Tackles		Rebounds		Inside.50s	
##	Min.	: 0.0000	Min.	:0.000	Min.	:0	Min.	:0
##	1st Qu.:	0.0000	1st Qu.:	0.000	1st Qu.:	0	1st Qu.:	0
##	Median	: 0.0000	Median	:1.000	Median	:0	Median	:0
##	Mean	: 0.9072	Mean	:1.158	Mean	:0	Mean	:0
##	3rd Qu.:	0.0000	3rd Qu.:	2.000	3rd Qu.:	0	3rd Qu.:	0
##	Max.	:29.0000	Max.	:9.000	Max.	:0	Max.	:0
##	Clangers		Frees.For		Frees.Against		Brownlow.Votes	
##	Min.	:0	Min.	:0.000	Min.	:0.000	Min.	:0.0000
##	1st Qu.:	0	1st Qu.:	0.000	1st Qu.:	0.000	1st Qu.:	0.0000
##	Median	:0	Median	:1.000	Median	:1.000	Median	:0.0000
##	Mean	:0	Mean	:1.339	Mean	:1.341	Mean	:0.1444
##	3rd Qu.:	0	3rd Qu.:	2.000	3rd Qu.:	2.000	3rd Qu.:	0.0000
##	Max.	:0	Max.	:9.000	Max.	:8.000	Max.	:3.0000
##	Contested.Possessions		Uncontested.Possessions		Contested.Marks			
##	Min.	:0	Min.	:0	Min.	:0		
##	1st Qu.:	0	1st Qu.:	0	1st Qu.:	0		
##	Median	:0	Median	:0	Median	:0		
##	Mean	:0	Mean	:0	Mean	:0		
##	3rd Qu.:	0	3rd Qu.:	0	3rd Qu.:	0		
##	Max.	:0	Max.	:0	Max.	:0		
##	Marks.Inside.50		One.Percenters		Bounces		Goal.Assists	
##	Min.	:0	Min.	:0	Min.	:0	Min.	:0
##	1st Qu.:	0	1st Qu.:	0	1st Qu.:	0	1st Qu.:	0
##	Median	:0	Median	:0	Median	:0	Median	:0
##	Mean	:0	Mean	:0	Mean	:0	Mean	:0
##	3rd Qu.:	0	3rd Qu.:	0	3rd Qu.:	0	3rd Qu.:	0
##	Max.	:0	Max.	:0	Max.	:0	Max.	:0
##	Substitute		Umpire.1		Umpire.2		Umpire.3	
##	Min.	:0	Length:6400		Length:6400		Length:6400	

```

## 1st Qu.:0      Class :character  Class :character  Class :character
## Median :0      Mode  :character  Mode  :character  Mode  :character
## Mean :0
## 3rd Qu.:0
## Max. :0
## Umpire.4      group_id      AF      countgames
## Length:6400   Min. :9653   Min. : -9.00   Min. : 1.00
## Class :character 1st Qu.:9693   1st Qu.: 40.00   1st Qu.:13.00
## Mode :character Median :9732   Median : 58.00   Median :18.00
## Mean :9732     Mean : 59.33   Mean :16.73
## 3rd Qu.:9772   3rd Qu.: 78.00   3rd Qu.:21.00
## Max. :9812     Max. :160.00   Max. :26.00
## Z_score
## Min. : -2.48500
## 1st Qu.: -0.70294
## Median : -0.04831
## Mean : 0.00000
## 3rd Qu.: 0.67906
## Max. : 3.66128
##
## $`1989`
## Season      Round      Date      Local.start.time
## Min. :1989   Length:6400   Min. :1989-03-31   Min. :1410
## 1st Qu.:1989   Class :character 1st Qu.:1989-05-06   1st Qu.:1410
## Median :1989   Mode :character Median :1989-06-17   Median :1410
## Mean :1989     Mean :1989-06-20   Mean :1470
## 3rd Qu.:1989   3rd Qu.:1989-08-05   3rd Qu.:1410
## Max. :1989     Max. :1989-09-30   Max. :1940
## Venue      Attendance      Home.team      HQ1G
## Length:6400   Min. : 5134   Length:6400   Min. :0.000
## Class :character 1st Qu.:13068   Class :character 1st Qu.:2.000
## Mode :character Median :18028   Mode :character Median :3.000
## Mean :22386     Mean :3.237
## 3rd Qu.:24336   3rd Qu.:5.000
## Max. :94796     Max. :8.000
## HQ1B      HQ2G      HQ2B      HQ3G
## Min. :0.000   Min. : 0.000   Min. : 1.000   Min. : 1.00
## 1st Qu.:2.000   1st Qu.: 4.000   1st Qu.: 5.000   1st Qu.: 8.00
## Median :3.000   Median : 7.000   Median : 7.000   Median :10.00
## Mean :3.413     Mean : 6.769   Mean : 6.812   Mean :10.65
## 3rd Qu.:5.000   3rd Qu.: 9.000   3rd Qu.: 9.000   3rd Qu.:13.00
## Max. :9.000     Max. :16.000   Max. :14.000   Max. :27.00
## HQ3B      HQ4G      HQ4B      Home.score
## Min. : 3.00   Min. : 1.00   Min. : 5.00   Min. : 14.0
## 1st Qu.: 8.00   1st Qu.:11.00   1st Qu.:10.00   1st Qu.: 77.0
## Median :10.00   Median :14.00   Median :14.00   Median : 98.5
## Mean :10.42     Mean :14.67   Mean :13.97   Mean :102.0
## 3rd Qu.:13.00   3rd Qu.:18.00   3rd Qu.:17.00   3rd Qu.:125.0
## Max. :21.00     Max. :35.00   Max. :27.00   Max. :228.0
## Away.team      AQ1G      AQ1B      AQ2G
## Length:6400     Min. :0.000   Min. :0.00   Min. : 1.000
## Class :character 1st Qu.:2.000   1st Qu.:2.00   1st Qu.: 4.000
## Mode :character Median :3.000   Median :3.00   Median : 6.000
## Mean :3.013     Mean :3.25     Mean : 6.344

```


##		3rd Qu.:4.000	3rd Qu.:4.25	3rd Qu.: 8.000	
##		Max. :9.000	Max. :8.00	Max. :17.000	
##	AQ2B	AQ3G	AQ3B	AQ4G	
##	Min. : 1.000	Min. : 1.00	Min. : 2.000	Min. : 1.00	
##	1st Qu.: 4.000	1st Qu.: 6.00	1st Qu.: 7.000	1st Qu.: 9.00	
##	Median : 6.000	Median : 9.00	Median : 9.000	Median :12.00	
##	Mean : 6.119	Mean : 9.35	Mean : 9.312	Mean :12.69	
##	3rd Qu.: 8.000	3rd Qu.:12.25	3rd Qu.:11.000	3rd Qu.:16.00	
##	Max. :12.000	Max. :23.00	Max. :18.000	Max. :32.00	
##	AQ4B	Away.score	First.name	Surname	
##	Min. : 4.00	Min. : 18.00	Length:6400	Length:6400	
##	1st Qu.:10.00	1st Qu.: 67.75	Class :character	Class :character	
##	Median :12.50	Median : 84.50	Mode :character	Mode :character	
##	Mean :12.56	Mean : 88.69			
##	3rd Qu.:15.00	3rd Qu.:110.25			
##	Max. :21.00	Max. :211.00			
##	ID	Jumper.No.	Playing.for	Kicks	
##	Min. : 13	Min. : 1.00	Length:6400	Min. : 0.00	
##	1st Qu.: 695	1st Qu.: 9.00	Class :character	1st Qu.: 7.00	
##	Median : 1267	Median :19.00	Mode :character	Median :10.00	
##	Mean : 1930	Mean :20.52		Mean :10.31	
##	3rd Qu.: 1403	3rd Qu.:30.00		3rd Qu.:14.00	
##	Max. :11452	Max. :58.00		Max. :31.00	
##	Marks	Handballs	Goals	Behinds	
##	Min. : 0.000	Min. : 0.000	Min. : 0.0000	Min. :0.0000	
##	1st Qu.: 2.000	1st Qu.: 2.000	1st Qu.: 0.0000	1st Qu.:0.0000	
##	Median : 3.000	Median : 4.000	Median : 0.0000	Median :0.0000	
##	Mean : 3.424	Mean : 4.987	Mean : 0.6839	Mean :0.5639	
##	3rd Qu.: 5.000	3rd Qu.: 7.000	3rd Qu.: 1.0000	3rd Qu.:1.0000	
##	Max. :17.000	Max. :28.000	Max. :14.0000	Max. :8.0000	
##	Hit.Outs	Tackles	Rebounds	Inside.50s	Clearances
##	Min. : 0.0000	Min. :0.000	Min. :0	Min. :0	Min. :0
##	1st Qu.: 0.0000	1st Qu.:0.000	1st Qu.:0	1st Qu.:0	1st Qu.:0
##	Median : 0.0000	Median :1.000	Median :0	Median :0	Median :0
##	Mean : 0.9639	Mean :1.229	Mean :0	Mean :0	Mean :0
##	3rd Qu.: 0.0000	3rd Qu.:2.000	3rd Qu.:0	3rd Qu.:0	3rd Qu.:0
##	Max. :35.0000	Max. :9.000	Max. :0	Max. :0	Max. :0
##	Clangers	Frees.For	Frees.Against	Brownlow.Votes	
##	Min. :0	Min. :0.000	Min. :0.000	Min. :0.0000	
##	1st Qu.:0	1st Qu.:0.000	1st Qu.:0.000	1st Qu.:0.0000	
##	Median :0	Median :1.000	Median :1.000	Median :0.0000	
##	Mean :0	Mean :1.419	Mean :1.419	Mean :0.1444	
##	3rd Qu.:0	3rd Qu.:2.000	3rd Qu.:2.000	3rd Qu.:0.0000	
##	Max. :0	Max. :8.000	Max. :9.000	Max. :3.0000	
##	Contested.Possessions	Uncontested.Possessions	Contested.Marks		
##	Min. :0	Min. :0	Min. :0		
##	1st Qu.:0	1st Qu.:0	1st Qu.:0		
##	Median :0	Median :0	Median :0		
##	Mean :0	Mean :0	Mean :0		
##	3rd Qu.:0	3rd Qu.:0	3rd Qu.:0		
##	Max. :0	Max. :0	Max. :0		
##	Marks.Inside.50	One.Percenters	Bounces	Goal.Assists	Time.on.Ground..
##	Min. :0	Min. :0	Min. :0	Min. :0	Min. :0
##	1st Qu.:0	1st Qu.:0	1st Qu.:0	1st Qu.:0	1st Qu.:0

```

## Median :0      Median :0      Median :0      Median :0      Median :0
## Mean :0      Mean :0      Mean :0      Mean :0      Mean :0
## 3rd Qu.:0      3rd Qu.:0      3rd Qu.:0      3rd Qu.:0      3rd Qu.:0
## Max. :0      Max. :0      Max. :0      Max. :0      Max. :0
## Substitute Umpire.1      Umpire.2      Umpire.3
## Min. :0      Length:6400      Length:6400      Length:6400
## 1st Qu.:0      Class :character      Class :character      Class :character
## Median :0      Mode :character      Mode :character      Mode :character
## Mean :0
## 3rd Qu.:0
## Max. :0
## Umpire.4      group_id      AF      countgames
## Length:6400      Min. :9813      Min. : -6.0      Min. : 1.00
## Class :character      1st Qu.:9853      1st Qu.: 39.0      1st Qu.:12.00
## Mode :character      Median :9892      Median : 57.0      Median :18.00
## Mean :9892      Mean : 58.9      Mean :16.37
## 3rd Qu.:9932      3rd Qu.: 77.0      3rd Qu.:21.00
## Max. :9972      Max. :213.0      Max. :26.00
## Z_score
## Min. : -2.36146
## 1st Qu.: -0.72403
## Median : -0.06906
## Mean : 0.00000
## 3rd Qu.: 0.65869
## Max. : 5.60738
##
## $`1990`
## Season      Round      Date      Local.start.time
## Min. :1990      Length:6440      Min. :1990-03-31      Min. :1410
## 1st Qu.:1990      Class :character      1st Qu.:1990-05-05      1st Qu.:1410
## Median :1990      Mode :character      Median :1990-06-16      Median :1410
## Mean :1990      Mean :1990-06-19      Mean :1470
## 3rd Qu.:1990      3rd Qu.:1990-08-04      3rd Qu.:1410
## Max. :1990      Max. :1990-10-06      Max. :1940
## Venue      Attendance      Home.team      HQ1G
## Length:6440      Min. : 5272      Length:6440      Min. :1.000
## Class :character      1st Qu.:13335      Class :character      1st Qu.:2.000
## Mode :character      Median :20474      Mode :character      Median :4.000
## Mean :25238      Mean :3.739
## 3rd Qu.:28568      3rd Qu.:5.000
## Max. :98944      Max. :9.000
## HQ1B      HQ2G      HQ2B      HQ3G
## Min. : 1.000      Min. : 1.000      Min. : 1.000      Min. : 4.00
## 1st Qu.: 2.000      1st Qu.: 5.000      1st Qu.: 5.000      1st Qu.: 9.00
## Median : 3.000      Median : 7.000      Median : 7.000      Median :11.00
## Mean : 3.562      Mean : 7.276      Mean : 6.975      Mean :11.29
## 3rd Qu.: 5.000      3rd Qu.: 9.000      3rd Qu.: 9.000      3rd Qu.:14.00
## Max. :10.000      Max. :15.000      Max. :15.000      Max. :20.00
## HQ3B      HQ4G      HQ4B      Home.score
## Min. : 4.00      Min. : 6.00      Min. : 6      Min. : 49.0
## 1st Qu.: 8.00      1st Qu.:12.00      1st Qu.:11      1st Qu.: 86.0
## Median :10.00      Median :15.00      Median :13      Median :103.0
## Mean :10.49      Mean :15.03      Mean :14      Mean :104.2
## 3rd Qu.:13.00      3rd Qu.:18.00      3rd Qu.:17      3rd Qu.:122.0

```

```

## Max. :20.00 Max. :27.00 Max. :28 Max. :179.0
## Away.team AQ1G AQ1B AQ2G
## Length:6440 Min. : 0.000 Min. :0.000 Min. : 1.000
## Class :character 1st Qu.: 2.000 1st Qu.:2.000 1st Qu.: 4.000
## Mode :character Median : 3.000 Median :3.000 Median : 6.000
## Mean : 3.062 Mean :3.102 Mean : 6.233
## 3rd Qu.: 4.000 3rd Qu.:4.000 3rd Qu.: 8.000
## Max. :13.000 Max. :9.000 Max. :18.000
## AQ2B AQ3G AQ3B AQ4G
## Min. : 1.000 Min. : 3.000 Min. : 2.000 Min. : 4.00
## 1st Qu.: 5.000 1st Qu.: 7.000 1st Qu.: 7.000 1st Qu.:10.00
## Median : 6.000 Median : 9.000 Median : 9.000 Median :13.00
## Mean : 6.522 Mean : 9.963 Mean : 9.758 Mean :13.63
## 3rd Qu.: 8.000 3rd Qu.:12.000 3rd Qu.:12.000 3rd Qu.:16.00
## Max. :17.000 Max. :24.000 Max. :23.000 Max. :32.00
## AQ4B Away.score First.name Surname
## Min. : 4.00 Min. : 32.0 Length:6440 Length:6440
## 1st Qu.:10.00 1st Qu.: 77.0 Class :character Class :character
## Median :13.00 Median : 93.0 Mode :character Mode :character
## Mean :13.03 Mean : 94.8
## 3rd Qu.:16.00 3rd Qu.:108.0
## Max. :26.00 Max. :209.0
## ID Jumper.No. Playing.for Kicks
## Min. : 13 Min. : 1.00 Length:6440 Min. : 0.00
## 1st Qu.: 619 1st Qu.:10.00 Class :character 1st Qu.: 6.00
## Median : 1165 Median :20.00 Mode :character Median :10.00
## Mean : 1749 Mean :21.06 Mean :10.18
## 3rd Qu.: 1344 3rd Qu.:31.00 3rd Qu.:13.00
## Max. :11482 Max. :60.00 Max. :31.00
## Marks Handballs Goals Behinds
## Min. : 0.00 Min. : 0.000 Min. : 0.0000 Min. :0.0000
## 1st Qu.: 2.00 1st Qu.: 3.000 1st Qu.: 0.0000 1st Qu.:0.0000
## Median : 3.00 Median : 5.000 Median : 0.0000 Median :0.0000
## Mean : 3.37 Mean : 5.411 Mean : 0.7165 Mean :0.5835
## 3rd Qu.: 5.00 3rd Qu.: 7.000 3rd Qu.: 1.0000 3rd Qu.:1.0000
## Max. :18.00 Max. :26.000 Max. :14.0000 Max. :8.0000
## Hit.Outs Tackles Rebounds Inside.50s Clearances
## Min. : 0.0000 Min. :0.000 Min. :0 Min. :0 Min. :0
## 1st Qu.: 0.0000 1st Qu.:0.000 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median : 0.0000 Median :1.000 Median :0 Median :0 Median :0
## Mean : 0.9488 Mean :1.206 Mean :0 Mean :0 Mean :0
## 3rd Qu.: 0.0000 3rd Qu.:2.000 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :41.0000 Max. :9.000 Max. :0 Max. :0 Max. :0
## Clangers Frees.For Frees.Against Brownlow.Votes
## Min. :0 Min. : 0.00 Min. :0.00 Min. :0.0000
## 1st Qu.:0 1st Qu.: 0.00 1st Qu.:0.00 1st Qu.:0.0000
## Median :0 Median : 1.00 Median :1.00 Median :0.0000
## Mean :0 Mean : 1.24 Mean :1.24 Mean :0.1435
## 3rd Qu.:0 3rd Qu.: 2.00 3rd Qu.:2.00 3rd Qu.:0.0000
## Max. :0 Max. :10.00 Max. :8.00 Max. :3.0000
## Contested.Possessions Uncontested.Possessions Contested.Marks
## Min. :0 Min. :0 Min. :0
## 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median :0 Median :0 Median :0

```

```

## Mean :0          Mean :0          Mean :0
## 3rd Qu.:0        3rd Qu.:0        3rd Qu.:0
## Max. :0          Max. :0          Max. :0
## Marks.Inside.50 One.Percenters Bounces Goal.Assists Time.on.Ground..
## Min. :0          Min. :0          Min. :0 Min. :0 Min. :0
## 1st Qu.:0        1st Qu.:0        1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median :0        Median :0        Median :0 Median :0 Median :0
## Mean :0          Mean :0          Mean :0 Mean :0 Mean :0
## 3rd Qu.:0        3rd Qu.:0        3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0          Max. :0          Max. :0 Max. :0 Max. :0
## Substitute Umpire.1 Umpire.2 Umpire.3
## Min. :0 Length:6440 Length:6440 Length:6440
## 1st Qu.:0 Class :character Class :character Class :character
## Median :0 Mode :character Mode :character Mode :character
## Mean :0
## 3rd Qu.:0
## Max. :0
## Umpire.4 group_id AF countgames
## Length:6440 Min. : 9973 Min. : -5.00 Min. : 1.00
## Class :character 1st Qu.:10013 1st Qu.: 40.00 1st Qu.:12.00
## Mode :character Median :10053 Median : 59.00 Median :18.00
## Mean :10053 Mean : 59.66 Mean :16.51
## 3rd Qu.:10093 3rd Qu.: 78.00 3rd Qu.:22.00
## Max. :10134 Max. :201.00 Max. :26.00
## Z_score
## Min. :-2.36483
## 1st Qu.: -0.71892
## Median : -0.02397
## Mean : 0.00000
## 3rd Qu.: 0.67097
## Max. : 5.16981
##
## $`1991`
## Season Round Date Local.start.time
## Min. :1991 Length:6880 Min. :1991-03-22 Min. :1410
## 1st Qu.:1991 Class :character 1st Qu.:1991-05-04 1st Qu.:1410
## Median :1991 Mode :character Median :1991-06-16 Median :1410
## Mean :1991 Mean :1991-06-17 Mean :1476
## 3rd Qu.:1991 3rd Qu.:1991-07-28 3rd Qu.:1410
## Max. :1991 Max. :1991-09-28 Max. :1940
## Venue Attendance Home.team HQ1G
## Length:6880 Min. : 4721 Length:6880 Min. : 0.000
## Class :character 1st Qu.:13719 Class :character 1st Qu.: 2.000
## Mode :character Median :22510 Mode :character Median : 3.000
## Mean :24296 Mean : 3.645
## 3rd Qu.:31250 3rd Qu.: 5.000
## Max. :75230 Max. :10.000
## HQ1B HQ2G HQ2B HQ3G
## Min. : 0.000 Min. : 1.000 Min. : 3 Min. : 3.00
## 1st Qu.: 2.000 1st Qu.: 5.000 1st Qu.: 5 1st Qu.: 9.00
## Median : 3.000 Median : 7.000 Median : 7 Median :11.00
## Mean : 3.599 Mean : 7.372 Mean : 7 Mean :11.41
## 3rd Qu.: 5.000 3rd Qu.: 9.000 3rd Qu.: 9 3rd Qu.:13.25
## Max. :11.000 Max. :17.000 Max. :15 Max. :24.00

```

##	HQ3B	HQ4G	HQ4B	Home.score	
##	Min. : 4.00	Min. : 4.00	Min. : 5.0	Min. : 35.00	
##	1st Qu.: 8.00	1st Qu.:12.00	1st Qu.:11.0	1st Qu.: 83.75	
##	Median :10.00	Median :15.00	Median :14.0	Median :103.00	
##	Mean :10.72	Mean :15.45	Mean :14.2	Mean :106.92	
##	3rd Qu.:13.00	3rd Qu.:19.00	3rd Qu.:17.0	3rd Qu.:128.00	
##	Max. :25.00	Max. :28.00	Max. :27.0	Max. :195.00	
##	Away.team	AQ1G	AQ1B	AQ2G	
##	Length:6880	Min. :0.000	Min. : 0.000	Min. : 0.000	
##	Class :character	1st Qu.:2.000	1st Qu.: 2.000	1st Qu.: 5.000	
##	Mode :character	Median :3.000	Median : 3.000	Median : 6.000	
##		Mean :3.151	Mean : 3.163	Mean : 6.802	
##		3rd Qu.:4.000	3rd Qu.: 4.000	3rd Qu.: 8.250	
##		Max. :9.000	Max. :10.000	Max. :19.000	
##	AQ2B	AQ3G	AQ3B	AQ4G	
##	Min. : 0.000	Min. : 0.00	Min. : 1.000	Min. : 1.00	
##	1st Qu.: 4.000	1st Qu.: 7.00	1st Qu.: 7.000	1st Qu.:10.00	
##	Median : 6.000	Median :10.00	Median : 9.000	Median :14.00	
##	Mean : 6.494	Mean :10.45	Mean : 9.645	Mean :14.14	
##	3rd Qu.: 8.250	3rd Qu.:13.00	3rd Qu.:12.250	3rd Qu.:17.00	
##	Max. :16.000	Max. :25.00	Max. :21.000	Max. :36.00	
##	AQ4B	Away.score	First.name	Surname	
##	Min. : 2.00	Min. : 16.00	Length:6880	Length:6880	
##	1st Qu.: 9.75	1st Qu.: 75.00	Class :character	Class :character	
##	Median :12.00	Median : 94.50	Mode :character	Mode :character	
##	Mean :13.05	Mean : 97.88			
##	3rd Qu.:16.00	3rd Qu.:117.00			
##	Max. :28.00	Max. :231.00			
##	ID	Jumper.No.	Playing.for	Kicks	
##	Min. : 1	Min. : 1.00	Length:6880	Min. : 0.00	
##	1st Qu.: 422	1st Qu.:10.00	Class :character	1st Qu.: 7.00	
##	Median : 930	Median :20.00	Mode :character	Median :10.00	
##	Mean : 1651	Mean :20.86		Mean :10.39	
##	3rd Qu.: 1299	3rd Qu.:30.00		3rd Qu.:14.00	
##	Max. :11520	Max. :60.00		Max. :31.00	
##	Marks	Handballs	Goals	Behinds	
##	Min. : 0.000	Min. : 0.000	Min. : 0.0000	Min. :0.0000	
##	1st Qu.: 2.000	1st Qu.: 3.000	1st Qu.: 0.0000	1st Qu.:0.0000	
##	Median : 3.000	Median : 5.000	Median : 0.0000	Median :0.0000	
##	Mean : 3.412	Mean : 5.764	Mean : 0.7398	Mean :0.5807	
##	3rd Qu.: 5.000	3rd Qu.: 8.000	3rd Qu.: 1.0000	3rd Qu.:1.0000	
##	Max. :18.000	Max. :26.000	Max. :13.0000	Max. :8.0000	
##	Hit.Outs	Tackles	Rebounds	Inside.50s	Clearances
##	Min. : 0.0000	Min. :0.000	Min. :0	Min. :0	Min. :0
##	1st Qu.: 0.0000	1st Qu.:0.000	1st Qu.:0	1st Qu.:0	1st Qu.:0
##	Median : 0.0000	Median :1.000	Median :0	Median :0	Median :0
##	Mean : 0.9237	Mean :1.171	Mean :0	Mean :0	Mean :0
##	3rd Qu.: 0.0000	3rd Qu.:2.000	3rd Qu.:0	3rd Qu.:0	3rd Qu.:0
##	Max. :38.0000	Max. :8.000	Max. :0	Max. :0	Max. :0
##	Clangers	Frees.For	Frees.Against	Brownlow.Votes	
##	Min. :0	Min. : 0.00	Min. :0.000	Min. :0.0000	
##	1st Qu.:0	1st Qu.: 0.00	1st Qu.:0.000	1st Qu.:0.0000	
##	Median :0	Median : 1.00	Median :1.000	Median :0.0000	
##	Mean :0	Mean : 1.19	Mean :1.189	Mean :0.1439	

```

## 3rd Qu.:0 3rd Qu.: 2.00 3rd Qu.:2.000 3rd Qu.:0.0000
## Max. :0 Max. :10.00 Max. :8.000 Max. :3.0000
## Contested.Possessions Uncontested.Possessions Contested.Marks
## Min. :0 Min. :0 Min. :0
## 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median :0 Median :0 Median :0
## Mean :0 Mean :0 Mean :0
## 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0 Max. :0 Max. :0
## Marks.Inside.50 One.Percenters Bounces Goal.Assists Time.on.Ground..
## Min. :0 Min. :0 Min. :0 Min. :0 Min. :0
## 1st Qu.:0 1st Qu.:0 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median :0 Median :0 Median :0 Median :0 Median :0
## Mean :0 Mean :0 Mean :0 Mean :0 Mean :0
## 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0 Max. :0 Max. :0 Max. :0 Max. :0
## Substitute Umpire.1 Umpire.2 Umpire.3
## Min. :0 Length:6880 Length:6880 Length:6880
## 1st Qu.:0 Class :character Class :character Class :character
## Median :0 Mode :character Mode :character Mode :character
## Mean :0
## 3rd Qu.:0
## Max. :0
## Umpire.4 group_id AF countgames
## Length:6880 Min. :10135 Min. : -4.00 Min. : 1.00
## Class :character 1st Qu.:10178 1st Qu.: 41.00 1st Qu.:12.00
## Mode :character Median :10220 Median : 60.00 Median :18.00
## Mean :10220 Mean : 61.17 Mean :16.74
## 3rd Qu.:10263 3rd Qu.: 79.00 3rd Qu.:22.00
## Max. :10306 Max. :185.00 Max. :26.00
## Z_score
## Min. :-2.3327
## 1st Qu.: -0.7220
## Median : -0.0419
## Mean : 0.0000
## 3rd Qu.: 0.6382
## Max. : 4.4322
##
## $`1992`
## Season Round Date Local.start.time
## Min. :1992 Length:6880 Min. :1992-03-21 Min. :1410
## 1st Qu.:1992 Class :character 1st Qu.:1992-05-02 1st Qu.:1410
## Median :1992 Mode :character Median :1992-06-14 Median :1410
## Mean :1992 Mean :1992-06-15 Mean :1485
## 3rd Qu.:1992 3rd Qu.:1992-07-25 3rd Qu.:1410
## Max. :1992 Max. :1992-09-26 Max. :1940
## Venue Attendance Home.team HQ1G
## Length:6880 Min. : 3059 Length:6880 Min. : 0.000
## Class :character 1st Qu.:15857 Class :character 1st Qu.: 2.000
## Mode :character Median :23658 Mode :character Median : 4.000
## Mean :27990 Mean : 3.826
## 3rd Qu.:34821 3rd Qu.: 5.000
## Max. :95007 Max. :10.000
## HQ1B HQ2G HQ2B HQ3G

```

##	Min.	:0.000	Min.	: 1.000	Min.	: 1.000	Min.	: 4.00		
##	1st Qu.:	2.000	1st Qu.:	6.000	1st Qu.:	5.000	1st Qu.:	9.00		
##	Median	:3.000	Median	: 7.000	Median	: 7.000	Median	:11.00		
##	Mean	:3.326	Mean	: 7.744	Mean	: 6.849	Mean	:11.69		
##	3rd Qu.:	4.250	3rd Qu.:	10.000	3rd Qu.:	8.250	3rd Qu.:	14.00		
##	Max.	:9.000	Max.	:17.000	Max.	:17.000	Max.	:25.00		
##	HQ3B		HQ4G		HQ4B		Home.score			
##	Min.	: 3.00	Min.	: 6.00	Min.	: 5.00	Min.	: 42.00		
##	1st Qu.:	8.00	1st Qu.:	12.00	1st Qu.:	11.00	1st Qu.:	85.75		
##	Median	:10.00	Median	:15.50	Median	:13.00	Median	:108.00		
##	Mean	:10.35	Mean	:15.75	Mean	:13.89	Mean	:108.39		
##	3rd Qu.:	13.00	3rd Qu.:	19.00	3rd Qu.:	17.00	3rd Qu.:	130.00		
##	Max.	:21.00	Max.	:32.00	Max.	:25.00	Max.	:210.00		
##	Away.team		AQ1G		AQ1B		AQ2G			
##	Length:6880		Min.	:0.000	Min.	: 0.000	Min.	: 0		
##	Class :character		1st Qu.:	2.000	1st Qu.:	2.000	1st Qu.:	5		
##	Mode :character		Median	:3.000	Median	: 3.000	Median	: 7		
##			Mean	:3.308	Mean	: 3.192	Mean	: 7		
##			3rd Qu.:	4.250	3rd Qu.:	4.000	3rd Qu.:	9		
##			Max.	:8.000	Max.	:10.000	Max.	:16		
##	AQ2B		AQ3G		AQ3B		AQ4G			
##	Min.	: 1.000	Min.	: 0.00	Min.	: 2.00	Min.	: 3.00		
##	1st Qu.:	4.000	1st Qu.:	8.00	1st Qu.:	7.00	1st Qu.:	11.00		
##	Median	: 6.000	Median	:10.00	Median	:10.00	Median	:14.00		
##	Mean	: 6.517	Mean	:10.66	Mean	:10.03	Mean	:14.37		
##	3rd Qu.:	8.000	3rd Qu.:	13.00	3rd Qu.:	12.00	3rd Qu.:	17.00		
##	Max.	:15.000	Max.	:24.00	Max.	:23.00	Max.	:37.00		
##	AQ4B		Away.score		First.name		Surname			
##	Min.	: 4.00	Min.	: 23.00	Length:6880		Length:6880			
##	1st Qu.:	10.00	1st Qu.:	77.00	Class :character		Class :character			
##	Median	:13.00	Median	: 95.50	Mode :character		Mode :character			
##	Mean	:13.05	Mean	: 99.25						
##	3rd Qu.:	16.00	3rd Qu.:	117.25						
##	Max.	:26.00	Max.	:239.00						
##	ID		Jumper.No.		Playing.for		Kicks			
##	Min.	: 1	Min.	: 1.00	Length:6880		Min.	: 0.00		
##	1st Qu.:	321	1st Qu.:	8.00	Class :character		1st Qu.:	6.00		
##	Median	: 716	Median	:18.00	Mode :character		Median	:10.00		
##	Mean	: 1083	Mean	:19.53			Mean	:10.13		
##	3rd Qu.:	1188	3rd Qu.:	29.00			3rd Qu.:	13.00		
##	Max.	:11533	Max.	:56.00			Max.	:32.00		
##	Marks		Handballs		Goals		Behinds			
##	Min.	: 0.000	Min.	: 0.000	Min.	: 0.0000	Min.	:0.0000		
##	1st Qu.:	2.000	1st Qu.:	3.000	1st Qu.:	0.0000	1st Qu.:	0.0000		
##	Median	: 3.000	Median	: 5.000	Median	: 0.0000	Median	:0.0000		
##	Mean	: 3.464	Mean	: 5.524	Mean	: 0.7529	Mean	:0.5679		
##	3rd Qu.:	5.000	3rd Qu.:	8.000	3rd Qu.:	1.0000	3rd Qu.:	1.0000		
##	Max.	:18.000	Max.	:28.000	Max.	:17.0000	Max.	:9.0000		
##	Hit.Outs		Tackles		Rebounds		Inside.50s		Clearances	
##	Min.	: 0.00	Min.	: 0.000	Min.	:0	Min.	:0	Min.	:0
##	1st Qu.:	0.00	1st Qu.:	0.000	1st Qu.:	0	1st Qu.:	0	1st Qu.:	0
##	Median	: 0.00	Median	: 1.000	Median	:0	Median	:0	Median	:0
##	Mean	: 1.01	Mean	: 1.374	Mean	:0	Mean	:0	Mean	:0
##	3rd Qu.:	0.00	3rd Qu.:	2.000	3rd Qu.:	0	3rd Qu.:	0	3rd Qu.:	0

```

## Max. :35.00 Max. :13.000 Max. :0 Max. :0 Max. :0
## Clangers Frees.For Frees.Against Brownlow.Votes
## Min. :0 Min. : 0.000 Min. : 0.000 Min. :0.0000
## 1st Qu.:0 1st Qu.: 0.000 1st Qu.: 0.000 1st Qu.:0.0000
## Median :0 Median : 1.000 Median : 1.000 Median :0.0000
## Mean :0 Mean : 1.269 Mean : 1.269 Mean :0.1439
## 3rd Qu.:0 3rd Qu.: 2.000 3rd Qu.: 2.000 3rd Qu.:0.0000
## Max. :0 Max. :10.000 Max. :10.000 Max. :3.0000
## Contested.Possessions Uncontested.Possessions Contested.Marks
## Min. :0 Min. :0 Min. :0
## 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median :0 Median :0 Median :0
## Mean :0 Mean :0 Mean :0
## 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0 Max. :0 Max. :0
## Marks.Inside.50 One.Percenters Bounces Goal.Assists Time.on.Ground..
## Min. :0 Min. :0 Min. :0 Min. :0 Min. :0
## 1st Qu.:0 1st Qu.:0 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median :0 Median :0 Median :0 Median :0 Median :0
## Mean :0 Mean :0 Mean :0 Mean :0 Mean :0
## 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0 Max. :0 Max. :0 Max. :0 Max. :0
## Substitute Umpire.1 Umpire.2 Umpire.3
## Min. :0 Length:6880 Length:6880 Length:6880
## 1st Qu.:0 Class :character Class :character Class :character
## Median :0 Mode :character Mode :character Mode :character
## Mean :0
## 3rd Qu.:0
## Max. :0
## Umpire.4 group_id AF countgames
## Length:6880 Min. :10307 Min. : -5.00 Min. : 1.00
## Class :character 1st Qu.:10350 1st Qu.: 40.00 1st Qu.:13.00
## Mode :character Median :10392 Median : 59.50 Median :18.00
## Mean :10392 Mean : 60.89 Mean :16.93
## 3rd Qu.:10435 3rd Qu.: 80.00 3rd Qu.:22.00
## Max. :10478 Max. :243.00 Max. :26.00
## Z_score
## Min. :-2.32221
## 1st Qu.: -0.73620
## Median : -0.04893
## Mean : 0.00000
## 3rd Qu.: 0.67359
## Max. : 6.41847
##
## $`1993`
## Season Round Date Local.start.time
## Min. :1993 Length:6280 Min. :1993-03-26 Min. :1315
## 1st Qu.:1993 Class :character 1st Qu.:1993-05-02 1st Qu.:1400
## Median :1993 Mode :character Median :1993-06-19 Median :1408
## Mean :1993 Mean :1993-06-16 Mean :1490
## 3rd Qu.:1993 3rd Qu.:1993-07-30 3rd Qu.:1415
## Max. :1993 Max. :1993-09-25 Max. :2038
## Venue Attendance Home.team HQ1G
## Length:6280 Min. : 6025 Length:6280 Min. : 0.000

```


##	Class :character	1st Qu.:15471	Class :character	1st Qu.: 3.000
##	Mode :character	Median :24442	Mode :character	Median : 4.000
##		Mean :29666		Mean : 4.032
##		3rd Qu.:40327		3rd Qu.: 5.000
##		Max. :96862		Max. :11.000
##	HQ1B	HQ2G	HQ2B	HQ3G
##	Min. :0.000	Min. : 2.000	Min. : 0.000	Min. : 4.0
##	1st Qu.:2.000	1st Qu.: 6.000	1st Qu.: 5.000	1st Qu.: 9.0
##	Median :3.000	Median : 8.000	Median : 7.000	Median :12.0
##	Mean :3.204	Mean : 8.032	Mean : 6.535	Mean :11.9
##	3rd Qu.:4.000	3rd Qu.:10.000	3rd Qu.: 8.000	3rd Qu.:14.0
##	Max. :8.000	Max. :19.000	Max. :13.000	Max. :27.0
##	HQ3B	HQ4G	HQ4B	Home.score
##	Min. : 1.00	Min. : 5.00	Min. : 3.00	Min. : 43.0
##	1st Qu.: 8.00	1st Qu.:13.00	1st Qu.:11.00	1st Qu.: 90.0
##	Median :10.00	Median :15.00	Median :14.00	Median :107.0
##	Mean :10.13	Mean :15.91	Mean :13.97	Mean :109.4
##	3rd Qu.:12.00	3rd Qu.:19.00	3rd Qu.:17.00	3rd Qu.:128.0
##	Max. :20.00	Max. :35.00	Max. :27.00	Max. :229.0
##	Away.team	AQ1G	AQ1B	AQ2G
##	Length:6280	Min. :0.000	Min. :0.000	Min. : 0.000
##	Class :character	1st Qu.:2.000	1st Qu.:2.000	1st Qu.: 5.000
##	Mode :character	Median :3.000	Median :3.000	Median : 7.000
##		Mean :3.446	Mean :3.229	Mean : 7.006
##		3rd Qu.:5.000	3rd Qu.:4.000	3rd Qu.: 9.000
##		Max. :9.000	Max. :8.000	Max. :17.000
##	AQ2B	AQ3G	AQ3B	AQ4G
##	Min. : 1.000	Min. : 1.00	Min. : 3.000	Min. : 4.00
##	1st Qu.: 5.000	1st Qu.: 8.00	1st Qu.: 7.000	1st Qu.:11.00
##	Median : 6.000	Median :10.00	Median : 9.000	Median :14.00
##	Mean : 6.338	Mean :10.76	Mean : 9.592	Mean :14.55
##	3rd Qu.: 8.000	3rd Qu.:13.00	3rd Qu.:12.000	3rd Qu.:17.00
##	Max. :16.000	Max. :23.00	Max. :19.000	Max. :28.00
##	AQ4B	Away.score	First.name	Surname
##	Min. : 3.00	Min. : 32.0	Length:6280	Length:6280
##	1st Qu.:10.00	1st Qu.: 78.0	Class :character	Class :character
##	Median :13.00	Median : 99.0	Mode :character	Mode :character
##	Mean :12.77	Mean :100.1		
##	3rd Qu.:15.00	3rd Qu.:120.0		
##	Max. :24.00	Max. :181.0		
##	ID	Jumper.No.	Playing.for	Kicks
##	Min. : 1.0	Min. : 1.00	Length:6280	Min. : 0.00
##	1st Qu.: 224.5	1st Qu.: 8.00	Class :character	1st Qu.: 6.00
##	Median : 627.0	Median :18.00	Mode :character	Median :10.00
##	Mean : 701.5	Mean :19.35		Mean :10.04
##	3rd Qu.: 988.0	3rd Qu.:29.00		3rd Qu.:13.00
##	Max. :4037.0	Max. :54.00		Max. :33.00
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.000	Min. : 0.000	Min. : 0.0000	Min. :0.0000
##	1st Qu.: 2.000	1st Qu.: 3.000	1st Qu.: 0.0000	1st Qu.:0.0000
##	Median : 3.000	Median : 5.000	Median : 0.0000	Median :0.0000
##	Mean : 3.421	Mean : 5.611	Mean : 0.7615	Mean :0.5656
##	3rd Qu.: 5.000	3rd Qu.: 8.000	3rd Qu.: 1.0000	3rd Qu.:1.0000
##	Max. :17.000	Max. :27.000	Max. :14.0000	Max. :9.0000

```

##      Hit.Outs      Tackles      Rebounds      Inside.50s      Clearances
## Min.      : 0.0000  Min.      : 0.000  Min.      :0  Min.      :0  Min.      :0
## 1st Qu.: 0.0000  1st Qu.: 0.000  1st Qu.:0  1st Qu.:0  1st Qu.:0
## Median : 0.0000  Median : 1.000  Median :0  Median :0  Median :0
## Mean    : 0.9795  Mean    : 1.484  Mean     :0  Mean     :0  Mean     :0
## 3rd Qu.: 0.0000  3rd Qu.: 2.000  3rd Qu.:0  3rd Qu.:0  3rd Qu.:0
## Max.    :36.0000  Max.    :10.000  Max.     :0  Max.     :0  Max.     :0
##      Clangers      Frees.For      Frees.Against      Brownlow.Votes
## Min.      :0  Min.      :0.000  Min.      :0.000  Min.      :0.0000
## 1st Qu.:0  1st Qu.:0.000  1st Qu.:0.000  1st Qu.:0.0000
## Median :0  Median :1.000  Median :1.000  Median :0.0000
## Mean     :0  Mean     :1.321  Mean     :1.314  Mean     :0.1433
## 3rd Qu.:0  3rd Qu.:2.000  3rd Qu.:2.000  3rd Qu.:0.0000
## Max.     :0  Max.     :9.000  Max.     :8.000  Max.     :3.0000
## Contested.Possessions Uncontested.Possessions Contested.Marks
## Min.      :0  Min.      :0  Min.      :0
## 1st Qu.:0  1st Qu.:0  1st Qu.:0
## Median :0  Median :0  Median :0
## Mean     :0  Mean     :0  Mean     :0
## 3rd Qu.:0  3rd Qu.:0  3rd Qu.:0
## Max.     :0  Max.     :0  Max.     :0
## Marks.Inside.50 One.Percenters      Bounces      Goal.Assists      Time.on.Ground..
## Min.      :0  Min.      :0  Min.      :0  Min.      :0  Min.      :0
## 1st Qu.:0  1st Qu.:0  1st Qu.:0  1st Qu.:0  1st Qu.:0
## Median :0  Median :0  Median :0  Median :0  Median :0
## Mean     :0  Mean     :0  Mean     :0  Mean     :0  Mean     :0
## 3rd Qu.:0  3rd Qu.:0  3rd Qu.:0  3rd Qu.:0  3rd Qu.:0
## Max.     :0  Max.     :0  Max.     :0  Max.     :0  Max.     :0
##      Substitute      Umpire.1      Umpire.2      Umpire.3
## Min.      :0  Length:6280  Length:6280  Length:6280
## 1st Qu.:0  Class :character  Class :character  Class :character
## Median :0  Mode  :character  Mode  :character  Mode  :character
## Mean     :0
## 3rd Qu.:0
## Max.     :0
##      Umpire.4      group_id      AF      countgames
## Length:6280  Min.      :10479  Min.      : -4.00  Min.      : 1.00
## Class :character  1st Qu.:10518  1st Qu.: 41.00  1st Qu.:12.00
## Mode  :character  Median :10557  Median : 59.00  Median :18.00
## Mean     :10557  Mean     : 61.03  Mean     :15.95
## 3rd Qu.:10596  3rd Qu.: 80.00  3rd Qu.:20.00
## Max.     :10635  Max.     :202.00  Max.     :24.00
##      Z_score
## Min.      :-2.29357
## 1st Qu.: -0.70650
## Median : -0.07168
## Mean     : 0.00000
## 3rd Qu.: 0.66895
## Max.     : 4.97166
##
## $`1994`
##      Season      Round      Date      Local.start.time
## Min.      :1994  Length:7308  Min.      :1994-03-26  Min.      :1315
## 1st Qu.:1994  Class :character  1st Qu.:1994-05-08  1st Qu.:1400

```

##	Median :1994	Mode :character	Median :1994-06-19	Median :1408
##	Mean :1994		Mean :1994-06-20	Mean :1483
##	3rd Qu.:1994		3rd Qu.:1994-08-05	3rd Qu.:1415
##	Max. :1994		Max. :1994-10-01	Max. :2038
##	Venue	Attendance	Home.team	HQ1G
##	Length:7308	Min. : 5334	Length:7308	Min. :0.000
##	Class :character	1st Qu.:16328	Class :character	1st Qu.:2.000
##	Mode :character	Median :26697	Mode :character	Median :3.000
##		Mean :30100		Mean :3.649
##		3rd Qu.:39181		3rd Qu.:5.000
##		Max. :93860		Max. :8.000
##	HQ1B	HQ2G	HQ2B	HQ3G
##	Min. :0.000	Min. : 2.000	Min. : 1.000	Min. : 2.00
##	1st Qu.:2.000	1st Qu.: 5.000	1st Qu.: 5.000	1st Qu.: 8.00
##	Median :3.000	Median : 7.000	Median : 7.000	Median :11.00
##	Mean :3.391	Mean : 7.167	Mean : 6.638	Mean :11.01
##	3rd Qu.:5.000	3rd Qu.: 9.000	3rd Qu.: 8.000	3rd Qu.:14.00
##	Max. :9.000	Max. :13.000	Max. :13.000	Max. :20.00
##	HQ3B	HQ4G	HQ4B	Home.score
##	Min. : 3.00	Min. : 3.00	Min. : 5.00	Min. : 26.0
##	1st Qu.: 8.00	1st Qu.:11.00	1st Qu.:11.00	1st Qu.: 80.0
##	Median :10.00	Median :14.00	Median :13.00	Median :100.0
##	Mean :10.07	Mean :14.56	Mean :13.37	Mean :100.7
##	3rd Qu.:12.00	3rd Qu.:17.00	3rd Qu.:16.00	3rd Qu.:120.0
##	Max. :18.00	Max. :26.00	Max. :24.00	Max. :174.0
##	Away.team	AQ1G	AQ1B	AQ2G
##	Length:7308	Min. :0.000	Min. :0.000	Min. : 0.000
##	Class :character	1st Qu.:2.000	1st Qu.:2.000	1st Qu.: 5.000
##	Mode :character	Median :3.000	Median :3.000	Median : 6.000
##		Mean :3.115	Mean :2.885	Mean : 6.466
##		3rd Qu.:4.000	3rd Qu.:4.000	3rd Qu.: 8.000
##		Max. :9.000	Max. :9.000	Max. :14.000
##	AQ2B	AQ3G	AQ3B	AQ4G
##	Min. : 0.00	Min. : 2.000	Min. : 1.000	Min. : 4.0
##	1st Qu.: 4.00	1st Qu.: 7.000	1st Qu.: 7.000	1st Qu.:10.0
##	Median : 6.00	Median : 9.000	Median : 8.000	Median :12.0
##	Mean : 5.92	Mean : 9.603	Mean : 8.586	Mean :12.8
##	3rd Qu.: 7.00	3rd Qu.:12.000	3rd Qu.:11.000	3rd Qu.:15.0
##	Max. :14.00	Max. :21.000	Max. :17.000	Max. :27.0
##	AQ4B	Away.score	First.name	Surname
##	Min. : 2.0	Min. : 30.00	Length:7308	Length:7308
##	1st Qu.: 9.0	1st Qu.: 67.00	Class :character	Class :character
##	Median :12.0	Median : 87.50	Mode :character	Mode :character
##	Mean :11.7	Mean : 88.49		
##	3rd Qu.:14.0	3rd Qu.:106.00		
##	Max. :22.0	Max. :171.00		
##	ID	Jumper.No.	Playing.for	Kicks
##	Min. : 1.0	Min. : 1.00	Length:7308	Min. : 0.00
##	1st Qu.: 223.0	1st Qu.: 9.00	Class :character	1st Qu.: 5.00
##	Median : 563.0	Median :17.00	Mode :character	Median : 8.00
##	Mean : 557.7	Mean :18.89		Mean : 8.83
##	3rd Qu.: 865.0	3rd Qu.:28.00		3rd Qu.:12.00
##	Max. :4058.0	Max. :52.00		Max. :31.00
##	Marks	Handballs	Goals	Behinds

```

## Min. : 0.000 Min. : 0.000 Min. : 0.0000 Min. : 0.0000
## 1st Qu.: 1.000 1st Qu.: 2.000 1st Qu.: 0.0000 1st Qu.: 0.0000
## Median : 3.000 Median : 5.000 Median : 0.0000 Median : 0.0000
## Mean : 3.153 Mean : 5.227 Mean : 0.6515 Mean : 0.4977
## 3rd Qu.: 4.000 3rd Qu.: 7.000 3rd Qu.: 1.0000 3rd Qu.: 1.0000
## Max. :17.000 Max. :28.000 Max. :14.0000 Max. :10.0000
## Hit.Outs Tackles Rebounds Inside.50s Clearances
## Min. : 0.000 Min. : 0.000 Min. :0 Min. :0 Min. :0
## 1st Qu.: 0.000 1st Qu.: 0.000 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median : 0.000 Median : 1.000 Median :0 Median :0 Median :0
## Mean : 0.926 Mean : 1.379 Mean :0 Mean :0 Mean :0
## 3rd Qu.: 0.000 3rd Qu.: 2.000 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :31.000 Max. :11.000 Max. :0 Max. :0 Max. :0
## Clangers Frees.For Frees.Against Brownlow.Votes
## Min. :0 Min. :0.00 Min. :0.000 Min. :0.0000
## 1st Qu.:0 1st Qu.:0.00 1st Qu.:0.000 1st Qu.:0.0000
## Median :0 Median :1.00 Median :1.000 Median :0.0000
## Mean :0 Mean :1.03 Mean :1.031 Mean :0.1355
## 3rd Qu.:0 3rd Qu.:2.00 3rd Qu.:2.000 3rd Qu.:0.0000
## Max. :0 Max. :7.00 Max. :7.000 Max. :3.0000
## Contested.Possessions Uncontested.Possessions Contested.Marks
## Min. :0 Min. :0 Min. :0
## 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median :0 Median :0 Median :0
## Mean :0 Mean :0 Mean :0
## 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0 Max. :0 Max. :0
## Marks.Inside.50 One.Percenters Bounces Goal.Assists Time.on.Ground..
## Min. :0 Min. :0 Min. :0 Min. :0 Min. :0
## 1st Qu.:0 1st Qu.:0 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median :0 Median :0 Median :0 Median :0 Median :0
## Mean :0 Mean :0 Mean :0 Mean :0 Mean :0
## 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0 Max. :0 Max. :0 Max. :0 Max. :0
## Substitute Umpire.1 Umpire.2 Umpire.3
## Min. :0 Length:7308 Length:7308 Length:7308
## 1st Qu.:0 Class :character Class :character Class :character
## Median :0 Mode :character Mode :character Mode :character
## Mean :0
## 3rd Qu.:0
## Max. :0
## Umpire.4 group_id AF countgames
## Length:7308 Min. :10636 Min. : -6.00 Min. : 1.00
## Class :character 1st Qu.:10679 1st Qu.: 35.00 1st Qu.:14.00
## Mode :character Median :10722 Median : 54.00 Median :19.00
## Mean :10722 Mean : 55.19 Mean :17.75
## 3rd Qu.:10766 3rd Qu.: 74.00 3rd Qu.:22.00
## Max. :10809 Max. :183.00 Max. :26.00
## Z_score
## Min. : -2.19532
## 1st Qu.: -0.72433
## Median : -0.04266
## Mean : 0.00000
## 3rd Qu.: 0.67490

```

```

## Max.      : 4.58556
##
## $`1995`
##      Season      Round      Date      Local.start.time
## Min.      :1995      Length:7770      Min.      :1995-03-31      Min.      :1315
## 1st Qu.:1995      Class :character      1st Qu.:1995-05-07      1st Qu.:1410
## Median :1995      Mode  :character      Median :1995-06-24      Median :1410
## Mean      :1995      Mean      :1995-06-21      Mean      :1536
## 3rd Qu.:1995      3rd Qu.:1995-08-05      3rd Qu.:1615
## Max.      :1995      Max.      :1995-09-30      Max.      :2040
##      Venue      Attendance      Home.team      HQ1G
## Length:7770      Min.      : 7426      Length:7770      Min.      : 0.000
## Class :character      1st Qu.:16969      Class :character      1st Qu.: 2.000
## Mode  :character      Median :24874      Mode  :character      Median : 3.000
##      Mean      :30879      Mean      : 3.427
##      3rd Qu.:38740      3rd Qu.: 5.000
##      Max.      :94825      Max.      :10.000
##      HQ1B      HQ2G      HQ2B      HQ3G
## Min.      : 0.000      Min.      : 0.00      Min.      : 0.000      Min.      : 1.00
## 1st Qu.: 2.000      1st Qu.: 4.00      1st Qu.: 4.000      1st Qu.: 8.00
## Median : 3.000      Median : 6.00      Median : 6.000      Median :10.00
## Mean      : 3.232      Mean      : 6.87      Mean      : 6.341      Mean      :10.38
## 3rd Qu.: 5.000      3rd Qu.: 8.00      3rd Qu.: 8.000      3rd Qu.:13.00
## Max.      :12.000      Max.      :16.00      Max.      :21.000      Max.      :25.00
##      HQ3B      HQ4G      HQ4B      Home.score
## Min.      : 0.000      Min.      : 5.00      Min.      : 2.00      Min.      : 34.00
## 1st Qu.: 7.000      1st Qu.:11.00      1st Qu.:10.00      1st Qu.: 75.00
## Median : 9.000      Median :13.00      Median :12.00      Median : 93.00
## Mean      : 9.405      Mean      :14.14      Mean      :12.56      Mean      : 97.37
## 3rd Qu.:12.000      3rd Qu.:17.00      3rd Qu.:15.00      3rd Qu.:116.00
## Max.      :26.000      Max.      :30.00      Max.      :30.00      Max.      :204.00
##      Away.team      AQ1G      AQ1B      AQ2G
## Length:7770      Min.      :0.000      Min.      :0.00      Min.      : 0.000
## Class :character      1st Qu.:2.000      1st Qu.:2.00      1st Qu.: 4.000
## Mode  :character      Median :3.000      Median :3.00      Median : 7.000
##      Mean      :3.184      Mean      :2.87      Mean      : 6.546
##      3rd Qu.:4.000      3rd Qu.:4.00      3rd Qu.: 8.000
##      Max.      :9.000      Max.      :9.00      Max.      :17.000
##      AQ2B      AQ3G      AQ3B      AQ4G
## Min.      : 0.000      Min.      : 1.000      Min.      : 2.0      Min.      : 3.00
## 1st Qu.: 4.000      1st Qu.: 7.000      1st Qu.: 7.0      1st Qu.:10.00
## Median : 6.000      Median : 9.000      Median : 9.0      Median :13.00
## Mean      : 5.984      Mean      : 9.697      Mean      : 9.2      Mean      :13.19
## 3rd Qu.: 8.000      3rd Qu.:12.000      3rd Qu.:11.0      3rd Qu.:16.00
## Max.      :15.000      Max.      :22.000      Max.      :21.0      Max.      :27.00
##      AQ4B      Away.score      First.name      Surname
## Min.      : 2.00      Min.      : 24.00      Length:7770      Length:7770
## 1st Qu.:10.00      1st Qu.: 73.00      Class :character      Class :character
## Median :12.00      Median : 90.00      Mode  :character      Mode  :character
## Mean      :12.02      Mean      : 91.15
## 3rd Qu.:14.00      3rd Qu.:106.00
## Max.      :25.00      Max.      :170.00
##      ID      Jumper.No.      Playing.for      Kicks
## Min.      : 1.0      Min.      : 1.00      Length:7770      Min.      : 0.00

```

```

## 1st Qu.: 226.0    1st Qu.: 8.00    Class :character    1st Qu.: 5.00
## Median : 482.5    Median :17.00    Mode  :character    Median : 8.00
## Mean   : 502.4    Mean   :19.01                                Mean  : 8.84
## 3rd Qu.: 762.0    3rd Qu.:29.00                                3rd Qu.:12.00
## Max.   :1226.0    Max.   :52.00                                Max.   :30.00
##      Marks      Handballs      Goals      Behinds
## Min.    : 0.000    Min.    : 0.000    Min.    : 0.0000    Min.    :0.0000
## 1st Qu.: 1.000    1st Qu.: 2.000    1st Qu.: 0.0000    1st Qu.:0.0000
## Median : 3.000    Median : 4.000    Median : 0.0000    Median :0.0000
## Mean    : 3.223    Mean    : 4.994    Mean    : 0.6506    Mean    :0.4909
## 3rd Qu.: 5.000    3rd Qu.: 7.000    3rd Qu.: 1.0000    3rd Qu.:1.0000
## Max.    :16.000    Max.    :24.000    Max.    :16.0000    Max.    :9.0000
##      Hit.Outs      Tackles      Rebounds      Inside.50s      Clearances
## Min.    : 0.0000    Min.    : 0.000    Min.    :0      Min.    :0      Min.    :0
## 1st Qu.: 0.0000    1st Qu.: 0.000    1st Qu.:0      1st Qu.:0      1st Qu.:0
## Median : 0.0000    Median : 1.000    Median :0      Median :0      Median :0
## Mean    : 0.9169    Mean    : 1.318    Mean    :0      Mean    :0      Mean    :0
## 3rd Qu.: 0.0000    3rd Qu.: 2.000    3rd Qu.:0      3rd Qu.:0      3rd Qu.:0
## Max.    :30.0000    Max.    :11.000    Max.    :0      Max.    :0      Max.    :0
##      Clangers      Frees.For      Frees.Against      Brownlow.Votes
## Min.    :0      Min.    :0.000    Min.    : 0.0000    Min.    :0.0000
## 1st Qu.:0      1st Qu.:0.000    1st Qu.: 0.0000    1st Qu.:0.0000
## Median :0      Median :1.000    Median : 1.0000    Median :0.0000
## Mean    :0      Mean    :0.921    Mean    : 0.9216    Mean    :0.1359
## 3rd Qu.:0      3rd Qu.:1.000    3rd Qu.: 1.0000    3rd Qu.:0.0000
## Max.    :0      Max.    :8.000    Max.    :11.0000    Max.    :3.0000
## Contested.Possessions Uncontested.Possessions Contested.Marks
## Min.    :0      Min.    :0      Min.    :0
## 1st Qu.:0      1st Qu.:0      1st Qu.:0
## Median :0      Median :0      Median :0
## Mean    :0      Mean    :0      Mean    :0
## 3rd Qu.:0      3rd Qu.:0      3rd Qu.:0
## Max.    :0      Max.    :0      Max.    :0
## Marks.Inside.50 One.Percenters      Bounces      Goal.Assists      Time.on.Ground..
## Min.    :0      Min.    :0      Min.    :0      Min.    :0      Min.    :0
## 1st Qu.:0      1st Qu.:0      1st Qu.:0      1st Qu.:0      1st Qu.:0
## Median :0      Median :0      Median :0      Median :0      Median :0
## Mean    :0      Mean    :0      Mean    :0      Mean    :0      Mean    :0
## 3rd Qu.:0      3rd Qu.:0      3rd Qu.:0      3rd Qu.:0      3rd Qu.:0
## Max.    :0      Max.    :0      Max.    :0      Max.    :0      Max.    :0
##      Substitute      Umpire.1      Umpire.2      Umpire.3
## Min.    :0      Length:7770      Length:7770      Length:7770
## 1st Qu.:0      Class :character      Class :character      Class :character
## Median :0      Mode  :character      Mode  :character      Mode  :character
## Mean    :0
## 3rd Qu.:0
## Max.    :0
##      Umpire.4      group_id      AF      countgames
## Length:7770      Min.    :10810      Min.    : -5.00      Min.    : 1.00
## Class :character      1st Qu.:10856      1st Qu.: 35.00      1st Qu.:14.00
## Mode  :character      Median :10902      Median : 53.00      Median :19.00
##      Mean    :10902      Mean    : 54.92      Mean    :17.71
##      3rd Qu.:10948      3rd Qu.: 73.00      3rd Qu.:22.00
##      Max.    :10994      Max.    :194.00      Max.    :25.00

```

```

##      Z_score
##  Min.      :-2.20692
##  1st Qu.: -0.73363
##  Median : -0.07065
##  Mean      : 0.00000
##  3rd Qu.:  0.66600
##  Max.      : 5.12270
##
## $`1996`
##      Season      Round      Date      Local.start.time
##  Min.      :1996   Length:7779   Min.      :1996-03-29   Min.      :1310
##  1st Qu.:1996   Class :character   1st Qu.:1996-05-05   1st Qu.:1410
##  Median :1996   Mode  :character   Median :1996-06-22   Median :1410
##  Mean      :1996                               Mean      :1996-06-20   Mean      :1573
##  3rd Qu.:1996                               3rd Qu.:1996-08-03   3rd Qu.:1940
##  Max.      :1996                               Max.      :1996-09-28   Max.      :2040
##      Venue      Attendance      Home.team      HQ1G
##  Length:7779   Min.      : 5083   Length:7779   Min.      :0.000
##  Class :character   1st Qu.:19051   Class :character   1st Qu.:2.000
##  Mode  :character   Median :26016   Mode  :character   Median :3.000
##                               Mean      :30799           Mean      :3.517
##                               3rd Qu.:39515           3rd Qu.:5.000
##                               Max.      :93102           Max.      :8.000
##      HQ1B      HQ2G      HQ2B      HQ3G
##  Min.      :0.000   Min.      : 0.000   Min.      : 0.000   Min.      : 2.00
##  1st Qu.:2.000   1st Qu.: 5.000   1st Qu.: 4.000   1st Qu.: 8.00
##  Median :3.000   Median : 7.000   Median : 6.000   Median :11.00
##  Mean      :3.216   Mean      : 7.386   Mean      : 6.151   Mean      :11.02
##  3rd Qu.:4.000   3rd Qu.: 9.000   3rd Qu.: 8.000   3rd Qu.:14.00
##  Max.      :9.000   Max.      :19.000   Max.      :12.000   Max.      :23.00
##      HQ3B      HQ4G      HQ4B      Home.score
##  Min.      : 1.000   Min.      : 3.00   Min.      : 3.00   Min.      : 22.0
##  1st Qu.: 7.000   1st Qu.:11.00   1st Qu.:10.00   1st Qu.: 77.0
##  Median : 9.000   Median :15.00   Median :12.00   Median :101.0
##  Mean      : 9.327   Mean      :14.89   Mean      :12.42   Mean      :101.7
##  3rd Qu.:11.000   3rd Qu.:18.00   3rd Qu.:14.00   3rd Qu.:125.0
##  Max.      :19.000   Max.      :28.00   Max.      :24.00   Max.      :187.0
##      Away.team      AQ1G      AQ1B      AQ2G
##  Length:7779   Min.      :0.000   Min.      :0.000   Min.      : 1.000
##  Class :character   1st Qu.:2.000   1st Qu.:2.000   1st Qu.: 4.000
##  Mode  :character   Median :3.000   Median :2.000   Median : 6.000
##                               Mean      :3.061   Mean      :2.713   Mean      : 6.061
##                               3rd Qu.:4.000   3rd Qu.:4.000   3rd Qu.: 8.000
##                               Max.      :8.000   Max.      :8.000   Max.      :14.000
##      AQ2B      AQ3G      AQ3B      AQ4G
##  Min.      : 0.000   Min.      : 2.000   Min.      : 2.000   Min.      : 4.00
##  1st Qu.: 4.000   1st Qu.: 7.000   1st Qu.: 6.000   1st Qu.:10.00
##  Median : 5.000   Median : 9.000   Median : 8.000   Median :12.00
##  Mean      : 5.432   Mean      : 9.205   Mean      : 8.611   Mean      :12.53
##  3rd Qu.: 7.000   3rd Qu.:11.000   3rd Qu.:10.000   3rd Qu.:15.00
##  Max.      :12.000   Max.      :23.000   Max.      :19.000   Max.      :29.00
##      AQ4B      Away.score      First.name      Surname
##  Min.      : 4.00   Min.      : 29.0   Length:7779   Length:7779
##  1st Qu.: 9.00   1st Qu.: 69.0   Class :character   Class :character

```

```

## Median :11.00 Median : 82.0 Mode :character Mode :character
## Mean :11.42 Mean : 86.6
## 3rd Qu.:14.00 3rd Qu.:100.0
## Max. :22.00 Max. :187.0
## ID Jumper.No. Playing.for Kicks
## Min. : 2.0 Min. : 1.00 Length:7779 Min. : 0.000
## 1st Qu.: 235.0 1st Qu.: 8.00 Class :character 1st Qu.: 5.000
## Median : 480.0 Median :17.00 Mode :character Median : 8.000
## Mean : 503.2 Mean :18.76 Mean : 8.965
## 3rd Qu.: 761.0 3rd Qu.:29.00 3rd Qu.:12.000
## Max. :1237.0 Max. :54.00 Max. :31.000
## Marks Handballs Goals Behinds
## Min. : 0.000 Min. : 0.0000 Min. : 0.0000 Min. :0.0000
## 1st Qu.: 2.000 1st Qu.: 2.000 1st Qu.: 0.0000 1st Qu.:0.0000
## Median : 3.000 Median : 5.000 Median : 0.0000 Median :0.0000
## Mean : 3.359 Mean : 5.121 Mean : 0.6521 Mean :0.4722
## 3rd Qu.: 5.000 3rd Qu.: 7.000 3rd Qu.: 1.0000 3rd Qu.:1.0000
## Max. :21.000 Max. :25.000 Max. :14.0000 Max. :7.0000
## Hit.Outs Tackles Rebounds Inside.50s Clearances
## Min. : 0.0000 Min. :0.00 Min. :0 Min. :0 Min. :0
## 1st Qu.: 0.0000 1st Qu.:0.00 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median : 0.0000 Median :1.00 Median :0 Median :0 Median :0
## Mean : 0.9338 Mean :1.42 Mean :0 Mean :0 Mean :0
## 3rd Qu.: 0.0000 3rd Qu.:2.00 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :41.0000 Max. :9.00 Max. :0 Max. :0 Max. :0
## Clangers Frees.For Frees.Against Brownlow.Votes
## Min. :0 Min. :0.0000 Min. :0.0000 Min. :0.0000
## 1st Qu.:0 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000
## Median :0 Median :1.0000 Median :1.0000 Median :0.0000
## Mean :0 Mean :0.9567 Mean :0.9567 Mean :0.1358
## 3rd Qu.:0 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.:0.0000
## Max. :0 Max. :9.0000 Max. :9.0000 Max. :3.0000
## Contested.Possessions Uncontested.Possessions Contested.Marks
## Min. :0 Min. :0 Min. :0
## 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median :0 Median :0 Median :0
## Mean :0 Mean :0 Mean :0
## 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0 Max. :0 Max. :0
## Marks.Inside.50 One.Percenters Bounces Goal.Assists Time.on.Ground..
## Min. :0 Min. :0 Min. :0 Min. :0 Min. :0
## 1st Qu.:0 1st Qu.:0 1st Qu.:0 1st Qu.:0 1st Qu.:0
## Median :0 Median :0 Median :0 Median :0 Median :0
## Mean :0 Mean :0 Mean :0 Mean :0 Mean :0
## 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0 Max. :0 Max. :0 Max. :0 Max. :0
## Substitute Umpire.1 Umpire.2 Umpire.3
## Min. :0 Length:7779 Length:7779 Length:7779
## 1st Qu.:0 Class :character Class :character Class :character
## Median :0 Mode :character Mode :character Mode :character
## Mean :0
## 3rd Qu.:0
## Max. :0
## Umpire.4 group_id AF countgames

```



```

## Length:7779      Min.    :10995      Min.    : -3.0      Min.    : 1.00
## Class :character  1st Qu.:11041      1st Qu.: 36.0      1st Qu.:15.00
## Mode  :character  Median :11087      Median : 55.0      Median :20.00
##                      Mean  :11087      Mean   : 56.3      Mean   :17.78
##                      3rd Qu.:11133      3rd Qu.: 74.0      3rd Qu.:22.00
##                      Max.   :11179      Max.   :210.0      Max.   :25.00
##
##      Z_score
## Min.    :-2.12664
## 1st Qu.: -0.72801
## Median  :-0.04663
## Mean    : 0.00000
## 3rd Qu.: 0.63475
## Max.    : 5.51202
##
## $`1997`
##      Season      Round      Date      Local.start.time
## Min.    :1997      Length:7770      Min.    :1997-03-27      Min.    :1340
## 1st Qu.:1997      Class :character  1st Qu.:1997-05-04      1st Qu.:1410
## Median :1997      Mode  :character  Median :1997-06-15      Median :1410
## Mean    :1997                      Mean   :1997-06-18      Mean   :1573
## 3rd Qu.:1997                      3rd Qu.:1997-08-02      3rd Qu.:1840
## Max.    :1997                      Max.   :1997-09-27      Max.   :2040
##      Venue      Attendance      Home.team      HQ1G
## Length:7770      Min.    : 8664      Length:7770      Min.    :0.000
## Class :character  1st Qu.:22731      Class :character  1st Qu.:2.000
## Mode  :character  Median :32370      Mode  :character  Median :3.000
##                      Mean   :34615                      Mean   :3.492
##                      3rd Qu.:40147                      3rd Qu.:5.000
##                      Max.   :99645                      Max.   :9.000
##      HQ1B      HQ2G      HQ2B      HQ3G
## Min.    :0.000      Min.    : 1.000      Min.    : 1.000      Min.    : 2.00
## 1st Qu.:2.000      1st Qu.: 5.000      1st Qu.: 5.000      1st Qu.: 8.00
## Median :3.000      Median : 7.000      Median : 7.000      Median :11.00
## Mean    :3.178      Mean   : 6.924      Mean   : 6.541      Mean   :10.48
## 3rd Qu.:5.000      3rd Qu.: 9.000      3rd Qu.: 8.000      3rd Qu.:13.00
## Max.    :8.000      Max.   :16.000      Max.   :12.000      Max.   :23.00
##      HQ3B      HQ4G      HQ4B      Home.score
## Min.    : 3.000      Min.    : 4.0      Min.    : 4.00      Min.    : 34.00
## 1st Qu.: 7.000      1st Qu.:11.0      1st Qu.:10.00      1st Qu.: 76.00
## Median :10.000      Median :14.0      Median :13.00      Median : 95.00
## Mean    : 9.735      Mean   :14.1      Mean   :12.79      Mean   : 97.38
## 3rd Qu.:12.000      3rd Qu.:17.0      3rd Qu.:15.00      3rd Qu.:118.00
## Max.    :21.000      Max.   :29.0      Max.   :26.00      Max.   :185.00
##      Away.team      AQ1G      AQ1B      AQ2G
## Length:7770      Min.    : 0.000      Min.    :0.000      Min.    : 0.000
## Class :character  1st Qu.: 2.000      1st Qu.:2.000      1st Qu.: 4.000
## Mode  :character  Median : 3.000      Median :3.000      Median : 6.000
##                      Mean   : 2.903      Mean   :2.805      Mean   : 5.773
##                      3rd Qu.: 4.000      3rd Qu.:4.000      3rd Qu.: 7.000
##                      Max.   :10.000      Max.   :9.000      Max.   :14.000
##      AQ2B      AQ3G      AQ3B      AQ4G
## Min.    : 0.000      Min.    : 1.000      Min.    : 2.000      Min.    : 3.00
## 1st Qu.: 4.000      1st Qu.: 6.000      1st Qu.: 6.000      1st Qu.: 9.00
## Median : 5.000      Median : 9.000      Median : 8.000      Median :12.00

```

##	Mean	: 5.703	Mean	: 8.914	Mean	: 8.443	Mean	:12.01
##	3rd Qu.:	7.000	3rd Qu.:	11.000	3rd Qu.:	11.000	3rd Qu.:	14.00
##	Max.	:14.000	Max.	:21.000	Max.	:16.000	Max.	:25.00
##	AQ4B		Away.score		First.name		Surname	
##	Min.	: 3.0	Min.	: 27.00	Length:7770		Length:7770	
##	1st Qu.:	9.0	1st Qu.:	67.00	Class :character		Class :character	
##	Median	:11.0	Median	: 83.00	Mode :character		Mode :character	
##	Mean	:11.3	Mean	: 83.36				
##	3rd Qu.:	13.0	3rd Qu.:	98.00				
##	Max.	:22.0	Max.	:169.00				
##	ID		Jumper.No.		Playing.for		Kicks	
##	Min.	: 2.0	Min.	: 1.00	Length:7770		Min.	: 0.000
##	1st Qu.:	235.0	1st Qu.:	9.00	Class :character		1st Qu.:	5.000
##	Median	: 508.0	Median	:18.00	Mode :character		Median	: 8.000
##	Mean	: 518.7	Mean	:19.42			Mean	: 8.991
##	3rd Qu.:	788.0	3rd Qu.:	29.00			3rd Qu.:	12.000
##	Max.	:1237.0	Max.	:54.00			Max.	:33.000
##	Marks		Handballs		Goals		Behinds	
##	Min.	: 0.000	Min.	: 0.000	Min.	: 0.0000	Min.	:0.0000
##	1st Qu.:	2.000	1st Qu.:	2.000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	: 3.000	Median	: 4.000	Median	: 0.0000	Median	:0.0000
##	Mean	: 3.376	Mean	: 4.863	Mean	: 0.6216	Mean	:0.4716
##	3rd Qu.:	5.000	3rd Qu.:	7.000	3rd Qu.:	1.0000	3rd Qu.:	1.0000
##	Max.	:14.000	Max.	:26.000	Max.	:10.0000	Max.	:8.0000
##	Hit.Outs		Tackles		Rebounds		Inside.50s	
##	Min.	: 0.0000	Min.	:0.000	Min.	:0	Min.	:0
##	1st Qu.:	0.0000	1st Qu.:	0.000	1st Qu.:	0	1st Qu.:	0
##	Median	: 0.0000	Median	:1.000	Median	:0	Median	:0
##	Mean	: 0.9573	Mean	:1.355	Mean	:0	Mean	:0
##	3rd Qu.:	0.0000	3rd Qu.:	2.000	3rd Qu.:	0	3rd Qu.:	0
##	Max.	:27.0000	Max.	:9.000	Max.	:0	Max.	:0
##	Clangers		Frees.For		Frees.Against		Brownlow.Votes	
##	Min.	:0	Min.	:0.0000	Min.	:0.0000	Min.	:0.0000
##	1st Qu.:	0	1st Qu.:	0.0000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	:0	Median	:1.0000	Median	:1.0000	Median	:0.0000
##	Mean	:0	Mean	:0.8485	Mean	:0.8485	Mean	:0.1359
##	3rd Qu.:	0	3rd Qu.:	1.0000	3rd Qu.:	1.0000	3rd Qu.:	0.0000
##	Max.	:0	Max.	:8.0000	Max.	:9.0000	Max.	:3.0000
##	Contested.Possessions		Uncontested.Possessions		Contested.Marks			
##	Min.	:0	Min.	:0	Min.	:0		
##	1st Qu.:	0	1st Qu.:	0	1st Qu.:	0		
##	Median	:0	Median	:0	Median	:0		
##	Mean	:0	Mean	:0	Mean	:0		
##	3rd Qu.:	0	3rd Qu.:	0	3rd Qu.:	0		
##	Max.	:0	Max.	:0	Max.	:0		
##	Marks.Inside.50		One.Percenters		Bounces		Goal.Assists	
##	Min.	:0	Min.	:0	Min.	:0	Min.	:0
##	1st Qu.:	0	1st Qu.:	0	1st Qu.:	0	1st Qu.:	0
##	Median	:0	Median	:0	Median	:0	Median	:0
##	Mean	:0	Mean	:0	Mean	:0	Mean	:0
##	3rd Qu.:	0	3rd Qu.:	0	3rd Qu.:	0	3rd Qu.:	0
##	Max.	:0	Max.	:0	Max.	:0	Max.	:0
##	Substitute		Umpire.1		Umpire.2		Umpire.3	
##	Min.	:0	Length:7770		Length:7770		Length:7770	

```

## 1st Qu.:0      Class :character  Class :character  Class :character
## Median :0      Mode  :character  Mode  :character  Mode  :character
## Mean :0
## 3rd Qu.:0
## Max. :0
## Umpire.4      group_id      AF      countgames
## Length:7770   Min. :11180   Min. : -3.00   Min. : 1.00
## Class :character 1st Qu.:11226 1st Qu.: 36.00 1st Qu.:14.00
## Mode :character Median :11272 Median : 54.00 Median :19.00
## Mean :11272 Mean : 55.71 Mean :17.63
## 3rd Qu.:11318 3rd Qu.: 73.00 3rd Qu.:22.00
## Max. :11364 Max. :168.00 Max. :26.00
## Z_score
## Min. : -2.18398
## 1st Qu.: -0.73320
## Median : -0.06361
## Mean : 0.00000
## 3rd Qu.: 0.64318
## Max. : 4.17715
##
## $`1998`
## Season Round Date Local.start.time
## Min. :1998 Length:8140 Min. :1998-03-27 Min. :1140
## 1st Qu.:1998 Class :character 1st Qu.:1998-05-03 1st Qu.:1410
## Median :1998 Mode :character Median :1998-06-14 Median :1410
## Mean :1998 Mean :1998-06-16 Mean :1579
## 3rd Qu.:1998 3rd Qu.:1998-08-01 3rd Qu.:1940
## Max. :1998 Max. :1998-09-26 Max. :2040
## Venue Attendance Home.team HQ1G
## Length:8140 Min. :11321 Length:8140 Min. : 0.000
## Class :character 1st Qu.:23267 Class :character 1st Qu.: 2.000
## Mode :character Median :32577 Mode :character Median : 3.000
## Mean :36172 Mean : 3.497
## 3rd Qu.:41780 3rd Qu.: 5.000
## Max. :94431 Max. :11.000
## HQ1B HQ2G HQ2B HQ3G
## Min. :0.000 Min. : 1.000 Min. : 0.000 Min. : 2.00
## 1st Qu.:2.000 1st Qu.: 5.000 1st Qu.: 4.000 1st Qu.: 8.00
## Median :3.000 Median : 6.000 Median : 6.000 Median :10.00
## Mean :3.097 Mean : 6.805 Mean : 6.243 Mean :10.39
## 3rd Qu.:4.000 3rd Qu.: 8.000 3rd Qu.: 8.000 3rd Qu.:13.00
## Max. :9.000 Max. :18.000 Max. :14.000 Max. :25.00
## HQ3B HQ4G HQ4B Home.score
## Min. : 1.000 Min. : 4.00 Min. : 4.00 Min. : 38.00
## 1st Qu.: 7.000 1st Qu.:11.00 1st Qu.:10.00 1st Qu.: 79.00
## Median : 9.000 Median :13.00 Median :13.00 Median : 94.00
## Mean : 9.389 Mean :14.26 Mean :12.77 Mean : 98.32
## 3rd Qu.:12.000 3rd Qu.:17.00 3rd Qu.:15.00 3rd Qu.:117.00
## Max. :17.000 Max. :29.00 Max. :23.00 Max. :185.00
## Away.team AQ1G AQ1B AQ2G
## Length:8140 Min. :0.000 Min. :0.000 Min. : 1.000
## Class :character 1st Qu.:2.000 1st Qu.:2.000 1st Qu.: 5.000
## Mode :character Median :3.000 Median :3.000 Median : 6.000
## Mean :3.184 Mean :2.865 Mean : 6.503

```

##		3rd Qu.:4.000	3rd Qu.:4.000	3rd Qu.: 8.000
##		Max. :9.000	Max. :9.000	Max. :15.000
##	AQ2B	AQ3G	AQ3B	AQ4G
##	Min. : 1.000	Min. : 2.000	Min. : 2.000	Min. : 4.00
##	1st Qu.: 4.000	1st Qu.: 7.000	1st Qu.: 7.000	1st Qu.:10.00
##	Median : 5.000	Median : 9.000	Median : 8.000	Median :13.00
##	Mean : 5.751	Mean : 9.643	Mean : 8.746	Mean :12.83
##	3rd Qu.: 7.000	3rd Qu.:12.000	3rd Qu.:11.000	3rd Qu.:15.00
##	Max. :15.000	Max. :20.000	Max. :21.000	Max. :25.00
##	AQ4B	Away.score	First.name	Surname
##	Min. : 4.00	Min. : 34.00	Length:8140	Length:8140
##	1st Qu.: 9.00	1st Qu.: 70.00	Class :character	Class :character
##	Median :11.00	Median : 88.00	Mode :character	Mode :character
##	Mean :11.51	Mean : 88.51		
##	3rd Qu.:14.00	3rd Qu.:105.00		
##	Max. :23.00	Max. :165.00		
##	ID	Jumper.No.	Playing.for	Kicks
##	Min. : 2.0	Min. : 1.00	Length:8140	Min. : 0.000
##	1st Qu.: 245.0	1st Qu.: 9.00	Class :character	1st Qu.: 5.000
##	Median : 519.0	Median :18.00	Mode :character	Median : 8.000
##	Mean : 527.6	Mean :19.63		Mean : 8.726
##	3rd Qu.: 809.0	3rd Qu.:29.00		3rd Qu.:12.000
##	Max. :1088.0	Max. :52.00		Max. :33.000
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.00	Min. : 0.000	Min. : 0.0000	Min. :0.0000
##	1st Qu.: 1.00	1st Qu.: 2.000	1st Qu.: 0.0000	1st Qu.:0.0000
##	Median : 3.00	Median : 4.000	Median : 0.0000	Median :0.0000
##	Mean : 3.31	Mean : 4.885	Mean : 0.6157	Mean :0.4413
##	3rd Qu.: 5.00	3rd Qu.: 7.000	3rd Qu.: 1.0000	3rd Qu.:1.0000
##	Max. :19.00	Max. :22.000	Max. :12.0000	Max. :7.0000
##	Hit.Outs	Tackles	Rebounds	Inside.50s
##	Min. : 0.000	Min. : 0.0	Min. : 0.000	Min. : 0.000
##	1st Qu.: 0.000	1st Qu.: 0.0	1st Qu.: 0.000	1st Qu.: 1.000
##	Median : 0.000	Median : 1.0	Median : 1.000	Median : 2.000
##	Mean : 1.439	Mean : 1.4	Mean : 1.452	Mean : 2.362
##	3rd Qu.: 0.000	3rd Qu.: 2.0	3rd Qu.: 2.000	3rd Qu.: 4.000
##	Max. :54.000	Max. :10.0	Max. :13.000	Max. :16.000
##	Clearances	Clangers	Frees.For	Frees.Against
##	Min. : 0.000	Min. :0.0000	Min. :0.0000	Min. :0.0000
##	1st Qu.: 0.000	1st Qu.:0.0000	1st Qu.:0.0000	1st Qu.:0.0000
##	Median : 1.000	Median :1.0000	Median :1.0000	Median :1.0000
##	Mean : 1.575	Mean :0.9134	Mean :0.8324	Mean :0.8307
##	3rd Qu.: 2.000	3rd Qu.:1.0000	3rd Qu.:1.0000	3rd Qu.:1.0000
##	Max. :22.000	Max. :8.0000	Max. :8.0000	Max. :8.0000
##	Brownlow.Votes	Contested.Possessions	Uncontested.Possessions	
##	Min. :0.0000	Min. :0	Min. :0	
##	1st Qu.:0.0000	1st Qu.:0	1st Qu.:0	
##	Median :0.0000	Median :0	Median :0	
##	Mean :0.1297	Mean :0	Mean :0	
##	3rd Qu.:0.0000	3rd Qu.:0	3rd Qu.:0	
##	Max. :3.0000	Max. :0	Max. :0	
##	Contested.Marks	Marks.Inside.50	One.Percenters	Bounces Goal.Assists
##	Min. :0	Min. :0	Min. :0	Min. :0
##	1st Qu.:0	1st Qu.:0	1st Qu.:0	1st Qu.:0

```

## Median :0      Median :0      Median :0      Median :0      Median :0
## Mean :0      Mean :0      Mean :0      Mean :0      Mean :0
## 3rd Qu.:0      3rd Qu.:0      3rd Qu.:0      3rd Qu.:0      3rd Qu.:0
## Max. :0      Max. :0      Max. :0      Max. :0      Max. :0
## Time.on.Ground.. Substitute Umpire.1      Umpire.2
## Min. :0      Min. :0      Length:8140      Length:8140
## 1st Qu.:0      1st Qu.:0      Class :character      Class :character
## Median :0      Median :0      Mode :character      Mode :character
## Mean :0      Mean :0
## 3rd Qu.:0      3rd Qu.:0
## Max. :0      Max. :0
## Umpire.3      Umpire.4      group_id      AF
## Length:8140      Length:8140      Min. :11365      Min. : -10.00
## Class :character      Class :character      1st Qu.:11411      1st Qu.: 35.00
## Mode :character      Mode :character      Median :11457      Median : 54.00
## Mean :11457      Mean : 55.39
## 3rd Qu.:11503      3rd Qu.: 74.00
## Max. :11549      Max. :168.00
## countgames      Z_score
## Min. : 1.00      Min. : -2.32593
## 1st Qu.:15.00      1st Qu.: -0.72538
## Median :19.00      Median : -0.04958
## Mean :17.77      Mean : 0.00000
## 3rd Qu.:22.00      3rd Qu.: 0.66177
## Max. :26.00      Max. : 4.00516
##
## $`1999`
## Season      Round      Date      Local.start.time
## Min. :1999      Length:8140      Min. :1999-03-25      Min. :1410
## 1st Qu.:1999      Class :character      1st Qu.:1999-05-02      1st Qu.:1410
## Median :1999      Mode :character      Median :1999-06-19      Median :1410
## Mean :1999      Mean :1999-06-17      Mean :1623
## 3rd Qu.:1999      3rd Qu.:1999-07-31      3rd Qu.:1940
## Max. :1999      Max. :1999-09-25      Max. :2100
## Venue      Attendance      Home.team      HQ1G
## Length:8140      Min. :10676      Length:8140      Min. : 0.000
## Class :character      1st Qu.:24044      Class :character      1st Qu.: 2.000
## Mode :character      Median :29932      Mode :character      Median : 3.000
## Mean :33749      Mean : 3.595
## 3rd Qu.:41227      3rd Qu.: 5.000
## Max. :94228      Max. :11.000
## HQ1B      HQ2G      HQ2B      HQ3G
## Min. :0.000      Min. : 2.000      Min. : 1.000      Min. : 3.00
## 1st Qu.:2.000      1st Qu.: 5.000      1st Qu.: 5.000      1st Qu.: 8.00
## Median :3.000      Median : 7.000      Median : 6.000      Median :10.00
## Mean :3.092      Mean : 7.232      Mean : 6.427      Mean :10.83
## 3rd Qu.:4.000      3rd Qu.: 9.000      3rd Qu.: 8.000      3rd Qu.:13.00
## Max. :8.000      Max. :21.000      Max. :13.000      Max. :24.00
## HQ3B      HQ4G      HQ4B      Home.score
## Min. : 3.000      Min. : 4.00      Min. : 4.00      Min. : 32.0
## 1st Qu.: 7.000      1st Qu.:11.00      1st Qu.:11.00      1st Qu.: 79.0
## Median : 9.000      Median :14.00      Median :13.00      Median : 99.0
## Mean : 9.384      Mean :14.58      Mean :12.57      Mean :100.1
## 3rd Qu.:11.000      3rd Qu.:18.00      3rd Qu.:15.00      3rd Qu.:118.0

```

##	Max. :17.000	Max. :28.00	Max. :22.00	Max. :181.0
##	Away.team	AQ1G	AQ1B	AQ2G
##	Length:8140	Min. :0.000	Min. :0.000	Min. : 1.000
##	Class :character	1st Qu.:2.000	1st Qu.:2.000	1st Qu.: 5.000
##	Mode :character	Median :3.000	Median :3.000	Median : 6.000
##		Mean :3.319	Mean :2.854	Mean : 6.697
##		3rd Qu.:5.000	3rd Qu.:4.000	3rd Qu.: 9.000
##		Max. :9.000	Max. :9.000	Max. :15.000
##	AQ2B	AQ3G	AQ3B	AQ4G
##	Min. : 1.000	Min. : 1.00	Min. : 2.000	Min. : 3.00
##	1st Qu.: 4.000	1st Qu.: 8.00	1st Qu.: 7.000	1st Qu.:11.00
##	Median : 5.000	Median :10.00	Median : 9.000	Median :13.00
##	Mean : 5.719	Mean :10.06	Mean : 8.686	Mean :13.22
##	3rd Qu.: 7.000	3rd Qu.:12.00	3rd Qu.:10.000	3rd Qu.:15.00
##	Max. :14.000	Max. :19.00	Max. :19.000	Max. :25.00
##	AQ4B	Away.score	First.name	Surname
##	Min. : 2.00	Min. : 23.00	Length:8140	Length:8140
##	1st Qu.:10.00	1st Qu.: 73.00	Class :character	Class :character
##	Median :12.00	Median : 91.00	Mode :character	Mode :character
##	Mean :11.78	Mean : 91.08		
##	3rd Qu.:14.00	3rd Qu.:104.00		
##	Max. :23.00	Max. :159.00		
##	ID	Jumper.No.	Playing.for	Kicks
##	Min. : 2.0	Min. : 1.00	Length:8140	Min. : 0.00
##	1st Qu.: 255.0	1st Qu.: 9.00	Class :character	1st Qu.: 5.00
##	Median : 520.0	Median :19.00	Mode :character	Median : 8.00
##	Mean : 530.2	Mean :19.76		Mean : 8.84
##	3rd Qu.: 819.0	3rd Qu.:30.00		3rd Qu.:12.00
##	Max. :1102.0	Max. :52.00		Max. :35.00
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.000	Min. : 0.000	Min. : 0.0000	Min. :0.0000
##	1st Qu.: 2.000	1st Qu.: 2.000	1st Qu.: 0.0000	1st Qu.:0.0000
##	Median : 3.000	Median : 4.000	Median : 0.0000	Median :0.0000
##	Mean : 3.473	Mean : 4.846	Mean : 0.6318	Mean :0.4385
##	3rd Qu.: 5.000	3rd Qu.: 7.000	3rd Qu.: 1.0000	3rd Qu.:1.0000
##	Max. :19.000	Max. :23.000	Max. :13.0000	Max. :7.0000
##	Hit.Outs	Tackles	Rebounds	Inside.50s
##	Min. : 0.000	Min. : 0.00	Min. : 0.000	Min. : 0.000
##	1st Qu.: 0.000	1st Qu.: 0.00	1st Qu.: 0.000	1st Qu.: 1.000
##	Median : 0.000	Median : 1.00	Median : 1.000	Median : 2.000
##	Mean : 1.399	Mean : 1.13	Mean : 1.498	Mean : 2.405
##	3rd Qu.: 0.000	3rd Qu.: 2.00	3rd Qu.: 2.000	3rd Qu.: 4.000
##	Max. :41.000	Max. :10.00	Max. :13.000	Max. :16.000
##	Clearances	Clangers	Frees.For	Frees.Against
##	Min. : 0.000	Min. :0.000	Min. :0.0000	Min. :0.000
##	1st Qu.: 0.000	1st Qu.:0.000	1st Qu.:0.0000	1st Qu.:0.000
##	Median : 1.000	Median :1.000	Median :1.0000	Median :1.000
##	Mean : 1.775	Mean :1.275	Mean :0.8588	Mean :0.859
##	3rd Qu.: 3.000	3rd Qu.:2.000	3rd Qu.:1.0000	3rd Qu.:1.000
##	Max. :16.000	Max. :9.000	Max. :6.0000	Max. :7.000
##	Brownlow.Votes	Contested.Possessions	Uncontested.Possessions	
##	Min. :0.0000	Min. : 0.000	Min. : 0.000	
##	1st Qu.:0.0000	1st Qu.: 3.000	1st Qu.: 4.000	
##	Median :0.0000	Median : 5.000	Median : 7.000	

```

## Mean :0.1297 Mean : 5.868 Mean : 7.821
## 3rd Qu.:0.0000 3rd Qu.: 8.000 3rd Qu.:11.000
## Max. :3.0000 Max. :22.000 Max. :32.000
## Contested.Marks Marks.Inside.50 One.Percenters Bounces
## Min. :0.0000 Min. : 0.0000 Min. :0.000 Min. : 0.000
## 1st Qu.:0.0000 1st Qu.: 0.0000 1st Qu.:0.000 1st Qu.: 0.000
## Median :0.0000 Median : 0.0000 Median :1.000 Median : 0.000
## Mean :0.6643 Mean : 0.6011 Mean :1.008 Mean : 0.452
## 3rd Qu.:1.0000 3rd Qu.: 1.0000 3rd Qu.:2.000 3rd Qu.: 0.000
## Max. :9.0000 Max. :12.0000 Max. :9.000 Max. :15.000
## Goal.Assists Time.on.Ground.. Substitute Umpire.1
## Min. :0 Min. :0 Min. :0 Length:8140
## 1st Qu.:0 1st Qu.:0 1st Qu.:0 Class :character
## Median :0 Median :0 Median :0 Mode :character
## Mean :0 Mean :0 Mean :0
## 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0 Max. :0 Max. :0
## Umpire.2 Umpire.3 Umpire.4 group_id
## Length:8140 Length:8140 Length:8140 Min. :11550
## Class :character Class :character Class :character 1st Qu.:11596
## Mode :character Mode :character Mode :character Median :11642
## Mean :11642
## 3rd Qu.:11688
## Max. :11734
## AF countgames Z_score
## Min. : -6.00 Min. : 1.00 Min. : -2.21299
## 1st Qu.: 35.00 1st Qu.:15.00 1st Qu.: -0.72707
## Median : 54.00 Median :20.00 Median : -0.03847
## Mean : 55.06 Mean :18.11 Mean : 0.00000
## 3rd Qu.: 73.00 3rd Qu.:22.00 3rd Qu.: 0.65012
## Max. :198.00 Max. :26.00 Max. : 5.18037
##
## $`2000`
## Season Round Date Local.start.time
## Min. :2000 Length:8140 Min. :2000-03-08 Min. :1310
## 1st Qu.:2000 Class :character 1st Qu.:2000-04-16 1st Qu.:1410
## Median :2000 Mode :character Median :2000-05-27 Median :1430
## Mean :2000 Mean :2000-05-28 Mean :1624
## 3rd Qu.:2000 3rd Qu.:2000-07-08 3rd Qu.:1940
## Max. :2000 Max. :2000-09-02 Max. :2015
## Venue Attendance Home.team HQ1G
## Length:8140 Min. : 7334 Length:8140 Min. :0.000
## Class :character 1st Qu.:22623 Class :character 1st Qu.:2.000
## Mode :character Median :30350 Mode :character Median :4.000
## Mean :34094 Mean :3.897
## 3rd Qu.:39710 3rd Qu.:5.000
## Max. :96249 Max. :9.000
## HQ1B HQ2G HQ2B HQ3G
## Min. :0.000 Min. : 2.000 Min. : 1.000 Min. : 4.00
## 1st Qu.:2.000 1st Qu.: 6.000 1st Qu.: 5.000 1st Qu.: 9.00
## Median :3.000 Median : 8.000 Median : 6.000 Median :11.00
## Mean :3.314 Mean : 8.119 Mean : 6.443 Mean :12.15
## 3rd Qu.:4.000 3rd Qu.:10.000 3rd Qu.: 8.000 3rd Qu.:15.00
## Max. :9.000 Max. :15.000 Max. :16.000 Max. :25.00

```

##	HQ3B	HQ4G	HQ4B	Home.score
##	Min. : 3.000	Min. : 7.00	Min. : 3.00	Min. : 52.0
##	1st Qu.: 7.000	1st Qu.:12.00	1st Qu.:10.00	1st Qu.: 86.0
##	Median : 9.000	Median :15.00	Median :13.00	Median :107.0
##	Mean : 9.686	Mean :16.08	Mean :12.67	Mean :109.1
##	3rd Qu.:12.000	3rd Qu.:19.00	3rd Qu.:15.00	3rd Qu.:126.0
##	Max. :19.000	Max. :31.00	Max. :22.00	Max. :198.0
##	Away.team	AQ1G	AQ1B	AQ2G
##	Length:8140	Min. :0.000	Min. : 0.0	Min. : 1
##	Class :character	1st Qu.:3.000	1st Qu.: 2.0	1st Qu.: 5
##	Mode :character	Median :3.000	Median : 3.0	Median : 7
##		Mean :3.514	Mean : 2.8	Mean : 7
##		3rd Qu.:5.000	3rd Qu.: 4.0	3rd Qu.: 9
##		Max. :9.000	Max. :10.0	Max. :17
##	AQ2B	AQ3G	AQ3B	AQ4G
##	Min. : 0.0	Min. : 3.00	Min. : 1.000	Min. : 4.00
##	1st Qu.: 4.0	1st Qu.: 8.00	1st Qu.: 7.000	1st Qu.:11.00
##	Median : 5.0	Median :10.00	Median : 9.000	Median :14.00
##	Mean : 5.8	Mean :10.59	Mean : 8.973	Mean :14.34
##	3rd Qu.: 8.0	3rd Qu.:13.00	3rd Qu.:11.000	3rd Qu.:17.00
##	Max. :13.0	Max. :22.00	Max. :19.000	Max. :27.00
##	AQ4B	Away.score	First.name	Surname
##	Min. : 4.00	Min. : 29.00	Length:8140	Length:8140
##	1st Qu.: 9.00	1st Qu.: 78.00	Class :character	Class :character
##	Median :12.00	Median : 98.00	Mode :character	Mode :character
##	Mean :11.97	Mean : 97.98		
##	3rd Qu.:15.00	3rd Qu.:114.00		
##	Max. :24.00	Max. :174.00		
##	ID	Jumper.No.	Playing.for	Kicks
##	Min. : 4	Min. : 1.00	Length:8140	Min. : 0.000
##	1st Qu.: 284	1st Qu.: 9.00	Class :character	1st Qu.: 5.000
##	Median : 545	Median :19.00	Mode :character	Median : 9.000
##	Mean : 549	Mean :20.25		Mean : 9.141
##	3rd Qu.: 825	3rd Qu.:30.00		3rd Qu.:12.000
##	Max. :1102	Max. :52.00		Max. :32.000
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.000	Min. : 0.000	Min. : 0.0000	Min. :0.0000
##	1st Qu.: 2.000	1st Qu.: 3.000	1st Qu.: 0.0000	1st Qu.:0.0000
##	Median : 3.000	Median : 4.000	Median : 0.0000	Median :0.0000
##	Mean : 3.779	Mean : 5.051	Mean : 0.6912	Mean :0.4552
##	3rd Qu.: 5.000	3rd Qu.: 7.000	3rd Qu.: 1.0000	3rd Qu.:1.0000
##	Max. :18.000	Max. :24.000	Max. :14.0000	Max. :7.0000
##	Hit.Outs	Tackles	Rebounds	Inside.50s
##	Min. : 0.000	Min. : 0.00	Min. : 0.000	Min. : 0.000
##	1st Qu.: 0.000	1st Qu.: 0.00	1st Qu.: 0.000	1st Qu.: 1.000
##	Median : 0.000	Median : 1.00	Median : 1.000	Median : 2.000
##	Mean : 1.368	Mean : 1.45	Mean : 1.573	Mean : 2.533
##	3rd Qu.: 0.000	3rd Qu.: 2.00	3rd Qu.: 2.000	3rd Qu.: 4.000
##	Max. :47.000	Max. :12.00	Max. :13.000	Max. :14.000
##	Clearances	Clangers	Frees.For	Frees.Against
##	Min. : 0.000	Min. :0.000	Min. :0.0000	Min. :0.0000
##	1st Qu.: 0.000	1st Qu.:0.000	1st Qu.:0.0000	1st Qu.:0.0000
##	Median : 1.000	Median :1.000	Median :1.0000	Median :1.0000
##	Mean : 1.732	Mean :1.499	Mean :0.8138	Mean :0.8138


```

## 3rd Qu.: 3.000 3rd Qu.:2.000 3rd Qu.:1.0000 3rd Qu.:1.0000
## Max. :16.000 Max. :9.000 Max. :6.0000 Max. :7.0000
## Brownlow.Votes Contested.Possessions Uncontested.Possessions
## Min. :0.0000 Min. : 0.000 Min. : 0.000
## 1st Qu.:0.0000 1st Qu.: 3.000 1st Qu.: 4.000
## Median :0.0000 Median : 5.000 Median : 7.000
## Mean :0.1297 Mean : 5.933 Mean : 8.168
## 3rd Qu.:0.0000 3rd Qu.: 8.000 3rd Qu.:11.000
## Max. :3.0000 Max. :24.000 Max. :36.000
## Contested.Marks Marks.Inside.50 One.Percenters Bounces
## Min. : 0.0000 Min. : 0.0000 Min. :0.000 Min. : 0.0000
## 1st Qu.: 0.0000 1st Qu.: 0.0000 1st Qu.:0.000 1st Qu.: 0.0000
## Median : 0.0000 Median : 0.0000 Median :1.000 Median : 0.0000
## Mean : 0.6037 Mean : 0.6467 Mean :1.188 Mean : 0.5069
## 3rd Qu.: 1.0000 3rd Qu.: 1.0000 3rd Qu.:2.000 3rd Qu.: 1.0000
## Max. :10.0000 Max. :14.0000 Max. :9.000 Max. :18.0000
## Goal.Assists Time.on.Ground.. Substitute Umpire.1
## Min. :0 Min. :0 Min. :0 Length:8140
## 1st Qu.:0 1st Qu.:0 1st Qu.:0 Class :character
## Median :0 Median :0 Median :0 Mode :character
## Mean :0 Mean :0 Mean :0
## 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0 Max. :0 Max. :0
## Umpire.2 Umpire.3 Umpire.4 group_id
## Length:8140 Length:8140 Length:8140 Min. :11735
## Class :character Class :character Class :character 1st Qu.:11781
## Mode :character Mode :character Mode :character Median :11827
## Mean :11827
## 3rd Qu.:11873
## Max. :11919
## AF countgames Z_score
## Min. : -6 Min. : 1.00 Min. : -2.24799
## 1st Qu.: 38 1st Qu.:14.00 1st Qu.: -0.72631
## Median : 57 Median :20.00 Median : -0.06922
## Mean : 59 Mean :18.15 Mean : 0.00000
## 3rd Qu.: 78 3rd Qu.:22.00 3rd Qu.: 0.65703
## Max. :181 Max. :25.00 Max. : 4.21914
##
## $`2001`
## Season Round Date Local.start.time
## Min. :2001 Length:8140 Min. :2001-03-30 Min. :1210
## 1st Qu.:2001 Class :character 1st Qu.:2001-05-06 1st Qu.:1410
## Median :2001 Mode :character Median :2001-06-22 Median :1410
## Mean :2001 Mean :2001-06-20 Mean :1592
## 3rd Qu.:2001 3rd Qu.:2001-08-04 3rd Qu.:1910
## Max. :2001 Max. :2001-09-29 Max. :1945
## Venue Attendance Home.team HQ1G
## Length:8140 Min. :10030 Length:8140 Min. :0.000
## Class :character 1st Qu.:23901 Class :character 1st Qu.:3.000
## Mode :character Median :31168 Mode :character Median :4.000
## Mean :34852 Mean :3.584
## 3rd Qu.:40075 3rd Qu.:4.000
## Max. :91482 Max. :9.000
## HQ1B HQ2G HQ2B HQ3G

```

##	Min.	:0.000	Min.	: 2.000	Min.	: 1.000	Min.	: 3.00
##	1st Qu.:	2.000	1st Qu.:	5.000	1st Qu.:	5.000	1st Qu.:	9.00
##	Median	:3.000	Median	: 7.000	Median	: 6.000	Median	:11.00
##	Mean	:3.205	Mean	: 7.216	Mean	: 6.216	Mean	:10.95
##	3rd Qu.:	4.000	3rd Qu.:	9.000	3rd Qu.:	8.000	3rd Qu.:	13.00
##	Max.	:8.000	Max.	:14.000	Max.	:13.000	Max.	:23.00
##	HQ3B		HQ4G		HQ4B		Home.score	
##	Min.	: 2.000	Min.	: 4.00	Min.	: 4.00	Min.	: 33.00
##	1st Qu.:	7.000	1st Qu.:	11.00	1st Qu.:	10.00	1st Qu.:	79.00
##	Median	: 9.000	Median	:14.00	Median	:12.00	Median	: 97.00
##	Mean	: 9.276	Mean	:14.43	Mean	:12.44	Mean	: 99.03
##	3rd Qu.:	11.000	3rd Qu.:	17.00	3rd Qu.:	15.00	3rd Qu.:	118.00
##	Max.	:18.000	Max.	:27.00	Max.	:24.00	Max.	:173.00
##	Away.team		AQ1G		AQ1B		AQ2G	
##	Length:8140		Min.	: 0.000	Min.	: 0.000	Min.	: 1.000
##	Class :character		1st Qu.:	2.000	1st Qu.:	2.000	1st Qu.:	5.000
##	Mode :character		Median	: 3.000	Median	: 3.000	Median	: 7.000
##			Mean	: 3.362	Mean	: 2.865	Mean	: 6.719
##			3rd Qu.:	5.000	3rd Qu.:	4.000	3rd Qu.:	9.000
##			Max.	:12.000	Max.	:10.000	Max.	:16.000
##	AQ2B		AQ3G		AQ3B		AQ4G	
##	Min.	: 1.000	Min.	: 2.00	Min.	: 2.00	Min.	: 3.00
##	1st Qu.:	4.000	1st Qu.:	7.00	1st Qu.:	6.00	1st Qu.:	10.00
##	Median	: 6.000	Median	:10.00	Median	: 9.00	Median	:14.00
##	Mean	: 5.865	Mean	:10.23	Mean	: 8.73	Mean	:13.99
##	3rd Qu.:	8.000	3rd Qu.:	13.00	3rd Qu.:	11.00	3rd Qu.:	17.00
##	Max.	:15.000	Max.	:22.00	Max.	:21.00	Max.	:25.00
##	AQ4B		Away.score		First.name		Surname	
##	Min.	: 4.00	Min.	: 27.00	Length:8140		Length:8140	
##	1st Qu.:	9.00	1st Qu.:	73.00	Class :character		Class :character	
##	Median	:11.00	Median	: 93.00	Mode :character		Mode :character	
##	Mean	:11.64	Mean	: 95.57				
##	3rd Qu.:	14.00	3rd Qu.:	119.00				
##	Max.	:24.00	Max.	:163.00				
##	ID		Jumper.No.		Playing.for		Kicks	
##	Min.	: 4.0	Min.	: 1.00	Length:8140		Min.	: 0.000
##	1st Qu.:	296.0	1st Qu.:	9.00	Class :character		1st Qu.:	5.000
##	Median	: 577.0	Median	:19.00	Mode :character		Median	: 8.000
##	Mean	: 567.5	Mean	:19.63			Mean	: 8.735
##	3rd Qu.:	847.0	3rd Qu.:	30.00			3rd Qu.:	12.000
##	Max.	:1114.0	Max.	:52.00			Max.	:32.000
##	Marks		Handballs		Goals		Behinds	
##	Min.	: 0.000	Min.	: 0.000	Min.	: 0.0000	Min.	:0.0000
##	1st Qu.:	2.000	1st Qu.:	2.000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	: 3.000	Median	: 4.000	Median	: 0.0000	Median	:0.0000
##	Mean	: 3.779	Mean	: 4.946	Mean	: 0.6459	Mean	:0.4405
##	3rd Qu.:	5.000	3rd Qu.:	7.000	3rd Qu.:	1.0000	3rd Qu.:	1.0000
##	Max.	:17.000	Max.	:23.000	Max.	:10.0000	Max.	:7.0000
##	Hit.Outs		Tackles		Rebounds		Inside.50s	
##	Min.	: 0.000	Min.	: 0.000	Min.	: 0.000	Min.	: 0.000
##	1st Qu.:	0.000	1st Qu.:	0.000	1st Qu.:	0.000	1st Qu.:	1.000
##	Median	: 0.000	Median	: 1.000	Median	: 1.000	Median	: 2.000
##	Mean	: 1.321	Mean	: 1.619	Mean	: 1.436	Mean	: 2.335
##	3rd Qu.:	0.000	3rd Qu.:	2.000	3rd Qu.:	2.000	3rd Qu.:	3.000

```

## Max. :43.000 Max. :12.000 Max. :12.000 Max. :14.000
## Clearances Clangers Frees.For Frees.Against
## Min. : 0.000 Min. :0.000 Min. :0.000 Min. :0.0000
## 1st Qu.: 0.000 1st Qu.:0.000 1st Qu.:0.000 1st Qu.:0.0000
## Median : 1.000 Median :1.000 Median :1.000 Median :1.0000
## Mean : 1.665 Mean :1.032 Mean :0.774 Mean :0.7741
## 3rd Qu.: 2.000 3rd Qu.:2.000 3rd Qu.:1.000 3rd Qu.:1.0000
## Max. :13.000 Max. :8.000 Max. :8.000 Max. :7.0000
## Brownlow.Votes Contested.Possessions Uncontested.Possessions
## Min. :0.0000 Min. : 0.000 Min. : 0.000
## 1st Qu.:0.0000 1st Qu.: 3.000 1st Qu.: 4.000
## Median :0.0000 Median : 5.000 Median : 7.000
## Mean :0.1297 Mean : 5.472 Mean : 8.097
## 3rd Qu.:0.0000 3rd Qu.: 7.000 3rd Qu.:11.000
## Max. :3.0000 Max. :22.000 Max. :33.000
## Contested.Marks Marks.Inside.50 One.Percenters Bounces
## Min. :0.0000 Min. : 0.0000 Min. : 0.000 Min. : 0.0000
## 1st Qu.:0.0000 1st Qu.: 0.0000 1st Qu.: 0.000 1st Qu.: 0.0000
## Median :0.0000 Median : 0.0000 Median : 1.000 Median : 0.0000
## Mean :0.5893 Mean : 0.6299 Mean : 1.182 Mean : 0.5197
## 3rd Qu.:1.0000 3rd Qu.: 1.0000 3rd Qu.: 2.000 3rd Qu.: 1.0000
## Max. :9.0000 Max. :12.0000 Max. :10.000 Max. :14.0000
## Goal.Assists Time.on.Ground.. Substitute Umpire.1
## Min. :0 Min. :0 Min. :0 Length:8140
## 1st Qu.:0 1st Qu.:0 1st Qu.:0 Class :character
## Median :0 Median :0 Median :0 Mode :character
## Mean :0 Mean :0 Mean :0
## 3rd Qu.:0 3rd Qu.:0 3rd Qu.:0
## Max. :0 Max. :0 Max. :0
## Umpire.2 Umpire.3 Umpire.4 group_id
## Length:8140 Length:8140 Length:8140 Min. :11920
## Class :character Class :character Class :character 1st Qu.:11966
## Mode :character Mode :character Mode :character Median :12012
## Mean :12012
## 3rd Qu.:12058
## Max. :12104
## AF countgames Z_score
## Min. : -8 Min. : 1.0 Min. : -2.31637
## 1st Qu.: 37 1st Qu.:15.0 1st Qu.: -0.73697
## Median : 56 Median :20.0 Median : -0.07011
## Mean : 58 Mean :18.3 Mean : 0.00000
## 3rd Qu.: 77 3rd Qu.:22.0 3rd Qu.: 0.66695
## Max. :170 Max. :25.0 Max. : 3.93106
##
## $`2002`
## Season Round Date Local.start.time
## Min. :2002 Length:8140 Min. :2002-03-28 Min. :1240
## 1st Qu.:2002 Class :character 1st Qu.:2002-05-05 1st Qu.:1410
## Median :2002 Mode :character Median :2002-06-21 Median :1410
## Mean :2002 Mean :2002-06-19 Mean :1588
## 3rd Qu.:2002 3rd Qu.:2002-08-03 3rd Qu.:1910
## Max. :2002 Max. :2002-09-28 Max. :2010
## Venue Attendance Home.team HQ1G
## Length:8140 Min. : 7671 Length:8140 Min. :0.000

```

##	Class :character	1st Qu.:23563	Class :character	1st Qu.:2.000
##	Mode :character	Median :30789	Mode :character	Median :3.000
##		Mean :32935		Mean :3.422
##		3rd Qu.:40322		3rd Qu.:5.000
##		Max. :91817		Max. :9.000
##	HQ1B	HQ2G	HQ2B	HQ3G
##	Min. :0.000	Min. : 0.00	Min. : 2.000	Min. : 3.00
##	1st Qu.:2.000	1st Qu.: 5.00	1st Qu.: 4.000	1st Qu.: 8.00
##	Median :3.000	Median : 7.00	Median : 6.000	Median :11.00
##	Mean :3.038	Mean : 7.13	Mean : 6.097	Mean :11.03
##	3rd Qu.:4.000	3rd Qu.: 9.00	3rd Qu.: 8.000	3rd Qu.:14.00
##	Max. :9.000	Max. :15.00	Max. :14.000	Max. :21.00
##	HQ3B	HQ4G	HQ4B	Home.score
##	Min. : 3.000	Min. : 3.0	Min. : 3.00	Min. : 28.0
##	1st Qu.: 7.000	1st Qu.:12.0	1st Qu.:10.00	1st Qu.: 83.0
##	Median : 9.000	Median :15.0	Median :12.00	Median : 99.0
##	Mean : 9.249	Mean :14.7	Mean :12.21	Mean :100.4
##	3rd Qu.:11.000	3rd Qu.:17.0	3rd Qu.:15.00	3rd Qu.:117.0
##	Max. :18.000	Max. :26.0	Max. :22.00	Max. :171.0
##	Away.team	AQ1G	AQ1B	AQ2G
##	Length:8140	Min. :0.000	Min. :0.000	Min. : 1.000
##	Class :character	1st Qu.:2.000	1st Qu.:2.000	1st Qu.: 5.000
##	Mode :character	Median :3.000	Median :3.000	Median : 6.000
##		Mean :3.189	Mean :2.719	Mean : 6.524
##		3rd Qu.:4.000	3rd Qu.:4.000	3rd Qu.: 8.000
##		Max. :9.000	Max. :7.000	Max. :14.000
##	AQ2B	AQ3G	AQ3B	AQ4G
##	Min. : 0.000	Min. : 2.00	Min. : 2.000	Min. : 4.00
##	1st Qu.: 4.000	1st Qu.: 8.00	1st Qu.: 6.000	1st Qu.:10.00
##	Median : 5.000	Median : 9.00	Median : 8.000	Median :12.00
##	Mean : 5.486	Mean : 9.67	Mean : 8.314	Mean :12.98
##	3rd Qu.: 7.000	3rd Qu.:12.00	3rd Qu.:10.000	3rd Qu.:16.00
##	Max. :12.000	Max. :21.00	Max. :17.000	Max. :24.00
##	AQ4B	Away.score	First.name	Surname
##	Min. : 3.00	Min. : 33.00	Length:8140	Length:8140
##	1st Qu.: 9.00	1st Qu.: 72.00	Class :character	Class :character
##	Median :11.00	Median : 86.00	Mode :character	Mode :character
##	Mean :11.22	Mean : 89.12		
##	3rd Qu.:13.00	3rd Qu.:108.00		
##	Max. :24.00	Max. :155.00		
##	ID	Jumper.No.	Playing.for	Kicks
##	Min. : 4.0	Min. : 1.0	Length:8140	Min. : 0.000
##	1st Qu.: 315.0	1st Qu.: 9.0	Class :character	1st Qu.: 5.000
##	Median : 637.0	Median :19.0	Mode :character	Median : 8.000
##	Mean : 623.4	Mean :19.7		Mean : 8.354
##	3rd Qu.: 929.0	3rd Qu.:30.0		3rd Qu.:11.000
##	Max. :1221.0	Max. :52.0		Max. :28.000
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.000	Min. : 0.000	Min. :0.0000	Min. :0.0000
##	1st Qu.: 2.000	1st Qu.: 2.000	1st Qu.:0.0000	1st Qu.:0.0000
##	Median : 3.000	Median : 4.000	Median :0.0000	Median :0.0000
##	Mean : 3.576	Mean : 4.993	Mean :0.6291	Mean :0.4377
##	3rd Qu.: 5.000	3rd Qu.: 7.000	3rd Qu.:1.0000	3rd Qu.:1.0000
##	Max. :16.000	Max. :25.000	Max. :9.0000	Max. :6.0000

```

##      Hit.Outs      Tackles      Rebounds      Inside.50s
## Min.   : 0.000   Min.   : 0.000   Min.   : 0.000   Min.   : 0.000
## 1st Qu.: 0.000   1st Qu.: 1.000   1st Qu.: 0.000   1st Qu.: 1.000
## Median : 0.000   Median : 2.000   Median : 1.000   Median : 2.000
## Mean   : 1.437   Mean   : 1.954   Mean   : 1.441   Mean   : 2.307
## 3rd Qu.: 0.000   3rd Qu.: 3.000   3rd Qu.: 2.000   3rd Qu.: 3.000
## Max.   :42.000   Max.   :13.000   Max.   :12.000   Max.   :13.000
##      Clearances      Clangers      Frees.For      Frees.Against
## Min.   : 0.00   Min.   :0.000   Min.   :0.0000   Min.   :0.0000
## 1st Qu.: 0.00   1st Qu.:1.000   1st Qu.:0.0000   1st Qu.:0.0000
## Median : 1.00   Median :1.000   Median :0.0000   Median :0.0000
## Mean   : 1.64   Mean   :1.663   Mean   :0.6802   Mean   :0.6802
## 3rd Qu.: 2.00   3rd Qu.:2.000   3rd Qu.:1.0000   3rd Qu.:1.0000
## Max.   :14.00   Max.   :9.000   Max.   :6.0000   Max.   :6.0000
## Brownlow.Votes   Contested.Possessions Uncontested.Possessions
## Min.   :0.0000   Min.   : 0.000   Min.   : 0.000
## 1st Qu.:0.0000   1st Qu.: 3.000   1st Qu.: 4.000
## Median :0.0000   Median : 5.000   Median : 7.000
## Mean   :0.1297   Mean   : 5.259   Mean   : 8.075
## 3rd Qu.:0.0000   3rd Qu.: 7.000   3rd Qu.:11.000
## Max.   :3.0000   Max.   :20.000   Max.   :30.000
## Contested.Marks  Marks.Inside.50   One.Percenters      Bounces
## Min.   :0.0000   Min.   : 0.0000   Min.   : 0.000   Min.   : 0.0000
## 1st Qu.:0.0000   1st Qu.: 0.0000   1st Qu.: 1.000   1st Qu.: 0.0000
## Median :0.0000   Median : 0.0000   Median : 2.000   Median : 0.0000
## Mean   :0.5536   Mean   : 0.5731   Mean   : 2.033   Mean   : 0.6165
## 3rd Qu.:1.0000   3rd Qu.: 1.0000   3rd Qu.: 3.000   3rd Qu.: 1.0000
## Max.   :9.0000   Max.   :11.0000   Max.   :15.000   Max.   :14.0000
##      Goal.Assists Time.on.Ground..  Substitute  Umpire.1
## Min.   :0      Min.   :0      Min.   :0      Length:8140
## 1st Qu.:0      1st Qu.:0      1st Qu.:0      Class :character
## Median :0      Median :0      Median :0      Mode  :character
## Mean   :0      Mean   :0      Mean   :0
## 3rd Qu.:0      3rd Qu.:0      3rd Qu.:0
## Max.   :0      Max.   :0      Max.   :0
##      Umpire.2      Umpire.3      Umpire.4      group_id
## Length:8140      Length:8140      Length:8140      Min.   :12105
## Class :character  Class :character  Class :character  1st Qu.:12151
## Mode  :character  Mode  :character  Mode  :character  Median :12197
##                                     Mean   :12197
##                                     3rd Qu.:12243
##                                     Max.   :12289
##      AF      countgames      Z_score
## Min.   : -4.00   Min.   : 1.00   Min.   : -2.25152
## 1st Qu.: 38.00   1st Qu.:16.00   1st Qu.: -0.72338
## Median : 56.00   Median :20.00   Median : -0.06847
## Mean   : 57.88   Mean   :18.48   Mean   : 0.00000
## 3rd Qu.: 76.00   3rd Qu.:22.00   3rd Qu.: 0.65921
## Max.   :151.00   Max.   :25.00   Max.   : 3.38803
##
## $`2003`
##      Season      Round      Date      Local.start.time
## Min.   :2003   Length:8140   Min.   :2003-03-28   Min.   :1310
## 1st Qu.:2003   Class :character  1st Qu.:2003-05-04   1st Qu.:1410

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## Median :2003   Mode :character   Median :2003-06-14   Median :1410
## Mean :2003                                     Mean :2003-06-18   Mean :1586
## 3rd Qu.:2003                                     3rd Qu.:2003-08-02   3rd Qu.:1910
## Max. :2003                                     Max. :2003-09-27   Max. :1940
## Venue Attendance Home.team HQ1G
## Length:8140 Min. :10253 Length:8140 Min. : 0.000
## Class :character 1st Qu.:24702 Class :character 1st Qu.: 2.000
## Mode :character Median :32043 Mode :character Median : 3.000
## Mean :34333 Mean : 3.595
## 3rd Qu.:42259 3rd Qu.: 5.000
## Max. :79451 Max. :10.000
## HQ1B HQ2G HQ2B HQ3G
## Min. :0.000 Min. : 2.000 Min. : 1.000 Min. : 3.0
## 1st Qu.:2.000 1st Qu.: 5.000 1st Qu.: 4.000 1st Qu.: 9.0
## Median :3.000 Median : 7.000 Median : 6.000 Median :11.0
## Mean :2.973 Mean : 7.119 Mean : 6.081 Mean :10.7
## 3rd Qu.:4.000 3rd Qu.: 9.000 3rd Qu.: 8.000 3rd Qu.:12.0
## Max. :8.000 Max. :16.000 Max. :13.000 Max. :21.0
## HQ3B HQ4G HQ4B Home.score
## Min. : 4.000 Min. : 6.00 Min. : 4.0 Min. : 45.00
## 1st Qu.: 7.000 1st Qu.:11.00 1st Qu.:10.0 1st Qu.: 81.00
## Median : 9.000 Median :14.00 Median :12.0 Median : 97.00
## Mean : 9.119 Mean :14.38 Mean :12.3 Mean : 98.61
## 3rd Qu.:11.000 3rd Qu.:17.00 3rd Qu.:15.0 3rd Qu.:113.00
## Max. :17.000 Max. :28.00 Max. :25.0 Max. :187.00
## Away.team AQ1G AQ1B AQ2G
## Length:8140 Min. :0.0 Min. :0.000 Min. : 1.000
## Class :character 1st Qu.:2.0 1st Qu.:2.000 1st Qu.: 5.000
## Mode :character Median :3.0 Median :3.000 Median : 6.000
## Mean :3.2 Mean :2.622 Mean : 6.465
## 3rd Qu.:4.0 3rd Qu.:3.000 3rd Qu.: 8.000
## Max. :9.0 Max. :7.000 Max. :18.000
## AQ2B AQ3G AQ3B AQ4G
## Min. : 1.000 Min. : 1.000 Min. : 2.000 Min. : 3.00
## 1st Qu.: 4.000 1st Qu.: 8.000 1st Qu.: 6.000 1st Qu.:10.00
## Median : 5.000 Median :10.000 Median : 8.000 Median :13.00
## Mean : 5.346 Mean : 9.908 Mean : 8.011 Mean :13.19
## 3rd Qu.: 7.000 3rd Qu.:12.000 3rd Qu.:10.000 3rd Qu.:15.00
## Max. :12.000 Max. :22.000 Max. :15.000 Max. :28.00
## AQ4B Away.score First.name Surname
## Min. : 3.00 Min. : 30.00 Length:8140 Length:8140
## 1st Qu.: 8.00 1st Qu.: 72.00 Class :character Class :character
## Median :11.00 Median : 88.00 Mode :character Mode :character
## Mean :10.75 Mean : 89.89
## 3rd Qu.:13.00 3rd Qu.:103.00
## Max. :20.00 Max. :187.00
## ID Jumper.No. Playing.for Kicks
## Min. : 4.0 Min. : 1.00 Length:8140 Min. : 0.000
## 1st Qu.: 356.0 1st Qu.: 9.00 Class :character 1st Qu.: 5.000
## Median : 731.0 Median :19.00 Mode :character Median : 8.000
## Mean : 702.8 Mean :19.69 Mean : 8.467
## 3rd Qu.:1031.0 3rd Qu.:30.00 3rd Qu.:11.000
## Max. :2817.0 Max. :47.00 Max. :30.000
## Marks Handballs Goals Behinds

```

```

## Min. : 0.000 Min. : 0.000 Min. : 0.0000 Min. :0.0000
## 1st Qu.: 2.000 1st Qu.: 2.000 1st Qu.: 0.0000 1st Qu.:0.0000
## Median : 3.000 Median : 4.000 Median : 0.0000 Median :0.0000
## Mean : 3.748 Mean : 4.914 Mean : 0.6267 Mean :0.4356
## 3rd Qu.: 5.000 3rd Qu.: 7.000 3rd Qu.: 1.0000 3rd Qu.:1.0000
## Max. :17.000 Max. :23.000 Max. :11.0000 Max. :7.0000
## Hit.Outs Tackles Rebounds Inside.50s
## Min. : 0.000 Min. : 0.00 Min. : 0.000 Min. : 0.000
## 1st Qu.: 0.000 1st Qu.: 1.00 1st Qu.: 0.000 1st Qu.: 1.000
## Median : 0.000 Median : 2.00 Median : 1.000 Median : 2.000
## Mean : 1.485 Mean : 1.95 Mean : 1.454 Mean : 2.293
## 3rd Qu.: 0.000 3rd Qu.: 3.00 3rd Qu.: 2.000 3rd Qu.: 3.000
## Max. :47.000 Max. :13.00 Max. :13.000 Max. :14.000
## Clearances Clangers Frees.For Frees.Against
## Min. : 0.0 Min. : 0.000 Min. :0.0000 Min. :0.0000
## 1st Qu.: 0.0 1st Qu.: 1.000 1st Qu.:0.0000 1st Qu.:0.0000
## Median : 1.0 Median : 1.000 Median :0.0000 Median :0.0000
## Mean : 1.6 Mean : 1.758 Mean :0.6904 Mean :0.6902
## 3rd Qu.: 2.0 3rd Qu.: 3.000 3rd Qu.:1.0000 3rd Qu.:1.0000
## Max. :14.0 Max. :10.000 Max. :7.0000 Max. :7.0000
## Brownlow.Votes Contested.Possessions Uncontested.Possessions
## Min. :0.0000 Min. : 0.000 Min. : 0.000
## 1st Qu.:0.0000 1st Qu.: 3.000 1st Qu.: 4.000
## Median :0.0000 Median : 5.000 Median : 7.000
## Mean :0.1297 Mean : 5.532 Mean : 7.745
## 3rd Qu.:0.0000 3rd Qu.: 7.000 3rd Qu.:11.000
## Max. :3.0000 Max. :25.000 Max. :27.000
## Contested.Marks Marks.Inside.50 One.Percenters Bounces
## Min. :0.0000 Min. : 0.0000 Min. : 0.000 Min. : 0.0000
## 1st Qu.:0.0000 1st Qu.: 0.0000 1st Qu.: 1.000 1st Qu.: 0.0000
## Median :0.0000 Median : 0.0000 Median : 2.000 Median : 0.0000
## Mean :0.5662 Mean : 0.5864 Mean : 1.964 Mean : 0.6063
## 3rd Qu.:1.0000 3rd Qu.: 1.0000 3rd Qu.: 3.000 3rd Qu.: 1.0000
## Max. :8.0000 Max. :11.0000 Max. :15.000 Max. :17.0000
## Goal.Assists Time.on.Ground.. Substitute Umpire.1
## Min. :0.0000 Min. : 0.00 Min. :0 Length:8140
## 1st Qu.:0.0000 1st Qu.: 70.00 1st Qu.:0 Class :character
## Median :0.0000 Median : 90.00 Median :0 Mode :character
## Mean :0.3461 Mean : 81.82 Mean :0
## 3rd Qu.:1.0000 3rd Qu.:100.00 3rd Qu.:0
## Max. :5.0000 Max. :100.00 Max. :0
## Umpire.2 Umpire.3 Umpire.4 group_id
## Length:8140 Length:8140 Length:8140 Min. :12290
## Class :character Class :character Class :character 1st Qu.:12336
## Mode :character Mode :character Mode :character Median :12382
## Mean :12382
## 3rd Qu.:12428
## Max. :12474
## AF countgames Z_score
## Min. : -5.00 Min. : 1.00 Min. : -2.29784
## 1st Qu.: 38.00 1st Qu.:16.00 1st Qu.: -0.74357
## Median : 57.00 Median :20.00 Median : -0.05681
## Mean : 58.57 Mean :18.52 Mean : 0.00000
## 3rd Qu.: 77.00 3rd Qu.:22.00 3rd Qu.: 0.66611

```

```

## Max. :159.00 Max. :26.00 Max. : 3.63005
##
## $`2004`
## Season Round Date Local.start.time
## Min. :2004 Length:8140 Min. :2004-03-26 Min. :1240
## 1st Qu.:2004 Class :character 1st Qu.:2004-05-02 1st Qu.:1410
## Median :2004 Mode :character Median :2004-06-13 Median :1410
## Mean :2004 Mean :2004-06-16 Mean :1593
## 3rd Qu.:2004 3rd Qu.:2004-07-31 3rd Qu.:1910
## Max. :2004 Max. :2004-09-25 Max. :2010
## Venue Attendance Home.team HQ1G
## Length:8140 Min. : 7222 Length:8140 Min. :0.000
## Class :character 1st Qu.:26172 Class :character 1st Qu.:2.000
## Mode :character Median :34526 Mode :character Median :3.000
## Mean :34423 Mean :3.741
## 3rd Qu.:40674 3rd Qu.:5.000
## Max. :77671 Max. :9.000
## HQ1B HQ2G HQ2B HQ3G
## Min. :0.000 Min. : 0.000 Min. : 1.000 Min. : 2.00
## 1st Qu.:2.000 1st Qu.: 5.000 1st Qu.: 4.000 1st Qu.: 8.00
## Median :3.000 Median : 7.000 Median : 6.000 Median :11.00
## Mean :2.854 Mean : 7.162 Mean : 5.751 Mean :10.95
## 3rd Qu.:4.000 3rd Qu.: 9.000 3rd Qu.: 7.000 3rd Qu.:13.00
## Max. :9.000 Max. :14.000 Max. :13.000 Max. :20.00
## HQ3B HQ4G HQ4B Home.score
## Min. : 1.000 Min. : 5.0 Min. : 4.00 Min. : 43.00
## 1st Qu.: 6.000 1st Qu.:11.0 1st Qu.: 9.00 1st Qu.: 76.00
## Median : 8.000 Median :14.0 Median :11.00 Median : 99.00
## Mean : 8.746 Mean :14.5 Mean :11.77 Mean : 98.78
## 3rd Qu.:10.000 3rd Qu.:18.0 3rd Qu.:14.00 3rd Qu.:119.00
## Max. :17.000 Max. :29.0 Max. :26.00 Max. :189.00
## Away.team AQ1G AQ1B AQ2G
## Length:8140 Min. :0.000 Min. :0.000 Min. : 0.000
## Class :character 1st Qu.:2.000 1st Qu.:2.000 1st Qu.: 4.000
## Mode :character Median :3.000 Median :3.000 Median : 6.000
## Mean :3.049 Mean :2.995 Mean : 6.086
## 3rd Qu.:4.000 3rd Qu.:4.000 3rd Qu.: 8.000
## Max. :8.000 Max. :9.000 Max. :19.000
## AQ2B AQ3G AQ3B AQ4G
## Min. : 1.000 Min. : 1.000 Min. : 1.000 Min. : 3.00
## 1st Qu.: 4.000 1st Qu.: 7.000 1st Qu.: 6.000 1st Qu.:10.00
## Median : 6.000 Median : 9.000 Median : 8.000 Median :12.00
## Mean : 5.957 Mean : 9.389 Mean : 8.573 Mean :12.59
## 3rd Qu.: 7.000 3rd Qu.:11.000 3rd Qu.:11.000 3rd Qu.:15.00
## Max. :14.000 Max. :26.000 Max. :19.000 Max. :31.00
## AQ4B Away.score First.name Surname
## Min. : 3.00 Min. : 25.0 Length:8140 Length:8140
## 1st Qu.: 8.00 1st Qu.: 67.0 Class :character Class :character
## Median :11.00 Median : 85.0 Mode :character Mode :character
## Mean :11.26 Mean : 86.8
## 3rd Qu.:14.00 3rd Qu.:103.0
## Max. :25.00 Max. :196.0
## ID Jumper.No. Playing.for Kicks
## Min. : 4.0 Min. : 1.00 Length:8140 Min. : 0.000

```


##	1st Qu.: 467.0	1st Qu.: 9.00	Class :character	1st Qu.: 5.000
##	Median : 814.0	Median :19.00	Mode :character	Median : 8.000
##	Mean : 986.3	Mean :19.57		Mean : 8.338
##	3rd Qu.:1105.0	3rd Qu.:29.00		3rd Qu.:11.000
##	Max. :4057.0	Max. :51.00		Max. :30.000
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.000	Min. : 0.000	Min. : 0.0000	Min. :0.0000
##	1st Qu.: 2.000	1st Qu.: 2.000	1st Qu.: 0.0000	1st Qu.:0.0000
##	Median : 3.000	Median : 4.000	Median : 0.0000	Median :0.0000
##	Mean : 3.767	Mean : 4.939	Mean : 0.6157	Mean :0.4305
##	3rd Qu.: 5.000	3rd Qu.: 7.000	3rd Qu.: 1.0000	3rd Qu.:1.0000
##	Max. :18.000	Max. :25.000	Max. :10.0000	Max. :7.0000
##	Hit.Outs	Tackles	Rebounds	Inside.50s
##	Min. : 0.000	Min. : 0.000	Min. : 0.000	Min. : 0.000
##	1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.: 0.000	1st Qu.: 1.000
##	Median : 0.000	Median : 2.000	Median : 1.000	Median : 2.000
##	Mean : 1.525	Mean : 2.049	Mean : 1.617	Mean : 2.272
##	3rd Qu.: 0.000	3rd Qu.: 3.000	3rd Qu.: 2.000	3rd Qu.: 3.000
##	Max. :42.000	Max. :15.000	Max. :16.000	Max. :14.000
##	Clearances	Clangers	Frees.For	Frees.Against
##	Min. : 0.000	Min. : 0.000	Min. :0.0000	Min. :0.000
##	1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.:0.0000	1st Qu.:0.000
##	Median : 1.000	Median : 1.000	Median :0.0000	Median :0.000
##	Mean : 1.538	Mean : 1.734	Mean :0.6748	Mean :0.674
##	3rd Qu.: 2.000	3rd Qu.: 3.000	3rd Qu.:1.0000	3rd Qu.:1.000
##	Max. :13.000	Max. :11.000	Max. :7.0000	Max. :6.000
##	Brownlow.Votes	Contested.Possessions	Uncontested.Possessions	
##	Min. :0.0000	Min. : 0.000	Min. : 0.00	
##	1st Qu.:0.0000	1st Qu.: 3.000	1st Qu.: 4.00	
##	Median :0.0000	Median : 5.000	Median : 7.00	
##	Mean :0.1297	Mean : 5.307	Mean : 7.83	
##	3rd Qu.:0.0000	3rd Qu.: 7.000	3rd Qu.:11.00	
##	Max. :3.0000	Max. :23.000	Max. :30.00	
##	Contested.Marks	Marks.Inside.50	One.Percenters	Bounces
##	Min. :0.0000	Min. : 0.0000	Min. : 0.000	Min. : 0.0000
##	1st Qu.:0.0000	1st Qu.: 0.0000	1st Qu.: 1.000	1st Qu.: 0.0000
##	Median :0.0000	Median : 0.0000	Median : 2.000	Median : 0.0000
##	Mean :0.5052	Mean : 0.5856	Mean : 2.024	Mean : 0.5866
##	3rd Qu.:1.0000	3rd Qu.: 1.0000	3rd Qu.: 3.000	3rd Qu.: 1.0000
##	Max. :7.0000	Max. :12.0000	Max. :14.000	Max. :12.0000
##	Goal.Assists	Time.on.Ground..	Substitute	Umpire.1
##	Min. :0.0000	Min. : 0.00	Min. :0	Length:8140
##	1st Qu.:0.0000	1st Qu.: 70.00	1st Qu.:0	Class :character
##	Median :0.0000	Median : 89.00	Median :0	Mode :character
##	Mean :0.3376	Mean : 81.82	Mean :0	
##	3rd Qu.:1.0000	3rd Qu.:100.00	3rd Qu.:0	
##	Max. :6.0000	Max. :100.00	Max. :0	
##	Umpire.2	Umpire.3	Umpire.4	group_id
##	Length:8140	Length:8140	Length:8140	Min. :12475
##	Class :character	Class :character	Class :character	1st Qu.:12521
##	Mode :character	Mode :character	Mode :character	Median :12567
##				Mean :12567
##				3rd Qu.:12613
##				Max. :12659

```

##          AF          countgames          Z_score
## Min.    : -3.00    Min.    : 1.00    Min.    :-2.26907
## 1st Qu.: 39.00    1st Qu.:15.00    1st Qu.: -0.72428
## Median : 57.00    Median :20.00    Median : -0.06223
## Mean    : 58.69    Mean    :18.24    Mean    : 0.00000
## 3rd Qu.: 77.00    3rd Qu.:22.00    3rd Qu.: 0.67338
## Max.    :174.00    Max.    :25.00    Max.    : 4.24110
##
## $`2005`
##      Season      Round      Date      Local.start.time
## Min.    :2005    Length:8140    Min.    :2005-03-24    Min.    :1240
## 1st Qu.:2005    Class :character    1st Qu.:2005-05-01    1st Qu.:1410
## Median :2005    Mode  :character    Median :2005-06-12    Median :1410
## Mean    :2005                                Mean    :2005-06-15    Mean    :1594
## 3rd Qu.:2005                                3rd Qu.:2005-07-30    3rd Qu.:1910
## Max.    :2005                                Max.    :2005-09-24    Max.    :2010
##      Venue      Attendance      Home.team      HQ1G
## Length:8140    Min.    :10431    Length:8140    Min.    :0.000
## Class :character    1st Qu.:30052    Class :character    1st Qu.:2.000
## Mode  :character    Median :35844    Mode  :character    Median :3.000
##                                Mean    :36561                                Mean    :3.681
##                                3rd Qu.:43009                                3rd Qu.:5.000
##                                Max.    :91828                                Max.    :9.000
##      HQ1B      HQ2G      HQ2B      HQ3G
## Min.    :0.000    Min.    : 1.000    Min.    : 1.000    Min.    : 3.00
## 1st Qu.:2.000    1st Qu.: 5.000    1st Qu.: 4.000    1st Qu.: 8.00
## Median :3.000    Median : 7.000    Median : 6.000    Median :11.00
## Mean    :2.957    Mean    : 7.373    Mean    : 5.995    Mean    :11.09
## 3rd Qu.:4.000    3rd Qu.: 9.000    3rd Qu.: 8.000    3rd Qu.:14.00
## Max.    :9.000    Max.    :18.000    Max.    :12.000    Max.    :23.00
##      HQ3B      HQ4G      HQ4B      Home.score
## Min.    : 3.000    Min.    : 5.00    Min.    : 5.00    Min.    : 37.0
## 1st Qu.: 7.000    1st Qu.:12.00    1st Qu.: 9.00    1st Qu.: 82.0
## Median : 9.000    Median :15.00    Median :13.00    Median : 98.0
## Mean    : 9.335    Mean    :14.91    Mean    :12.22    Mean    :101.7
## 3rd Qu.:11.000    3rd Qu.:18.00    3rd Qu.:15.00    3rd Qu.:118.0
## Max.    :16.000    Max.    :29.00    Max.    :25.00    Max.    :188.0
##      Away.team      AQ1G      AQ1B      AQ2G
## Length:8140    Min.    :0.000    Min.    :0.000    Min.    : 0.00
## Class :character    1st Qu.:2.000    1st Qu.:1.000    1st Qu.: 4.00
## Mode  :character    Median :3.000    Median :3.000    Median : 6.00
##                                Mean    :3.114    Mean    :2.768    Mean    : 6.33
##                                3rd Qu.:4.000    3rd Qu.:4.000    3rd Qu.: 8.00
##                                Max.    :8.000    Max.    :7.000    Max.    :15.00
##      AQ2B      AQ3G      AQ3B      AQ4G
## Min.    : 0.000    Min.    : 3.000    Min.    : 1.000    Min.    : 5.00
## 1st Qu.: 4.000    1st Qu.: 7.000    1st Qu.: 6.000    1st Qu.: 9.00
## Median : 5.000    Median : 9.000    Median : 8.000    Median :12.00
## Mean    : 5.546    Mean    : 9.562    Mean    : 8.232    Mean    :12.76
## 3rd Qu.: 7.000    3rd Qu.:12.000    3rd Qu.:11.000    3rd Qu.:16.00
## Max.    :13.000    Max.    :23.000    Max.    :17.000    Max.    :27.00
##      AQ4B      Away.score      First.name      Surname
## Min.    : 3.00    Min.    : 33.0    Length:8140    Length:8140
## 1st Qu.: 9.00    1st Qu.: 66.0    Class :character    Class :character

```

##	Median :11.00	Median : 87.0	Mode :character	Mode :character
##	Mean :10.96	Mean : 87.5		
##	3rd Qu.:13.00	3rd Qu.:105.0		
##	Max. :20.00	Max. :176.0		
##	ID	Jumper.No.	Playing.for	Kicks
##	Min. : 4	Min. : 1.00	Length:8140	Min. : 0.00
##	1st Qu.: 544	1st Qu.: 9.00	Class :character	1st Qu.: 5.00
##	Median : 916	Median :19.00	Mode :character	Median : 8.00
##	Mean :1359	Mean :19.78		Mean : 8.72
##	3rd Qu.:1217	3rd Qu.:30.00		3rd Qu.:12.00
##	Max. :4143	Max. :48.00		Max. :27.00
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.000	Min. : 0.000	Min. : 0.0000	Min. :0.0000
##	1st Qu.: 2.000	1st Qu.: 3.000	1st Qu.: 0.0000	1st Qu.:0.0000
##	Median : 4.000	Median : 5.000	Median : 0.0000	Median :0.0000
##	Mean : 4.148	Mean : 5.356	Mean : 0.6287	Mean :0.4225
##	3rd Qu.: 6.000	3rd Qu.: 7.000	3rd Qu.: 1.0000	3rd Qu.:1.0000
##	Max. :18.000	Max. :26.000	Max. :11.0000	Max. :6.0000
##	Hit.Outs	Tackles	Rebounds	Inside.50s
##	Min. : 0.000	Min. : 0.000	Min. : 0.000	Min. : 0.000
##	1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.: 0.000	1st Qu.: 1.000
##	Median : 0.000	Median : 2.000	Median : 1.000	Median : 2.000
##	Mean : 1.402	Mean : 1.995	Mean : 1.658	Mean : 2.282
##	3rd Qu.: 0.000	3rd Qu.: 3.000	3rd Qu.: 2.000	3rd Qu.: 3.000
##	Max. :47.000	Max. :15.000	Max. :17.000	Max. :15.000
##	Clearances	Clangers	Frees.For	Frees.Against
##	Min. : 0.000	Min. : 0.000	Min. :0.0000	Min. :0.0000
##	1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.:0.0000	1st Qu.:0.0000
##	Median : 1.000	Median : 2.000	Median :1.0000	Median :1.0000
##	Mean : 1.482	Mean : 1.928	Mean :0.7839	Mean :0.7803
##	3rd Qu.: 2.000	3rd Qu.: 3.000	3rd Qu.:1.0000	3rd Qu.:1.0000
##	Max. :18.000	Max. :10.000	Max. :6.0000	Max. :6.0000
##	Brownlow.Votes	Contested.Possessions	Uncontested.Possessions	
##	Min. :0.0000	Min. : 0.000	Min. : 0.000	
##	1st Qu.:0.0000	1st Qu.: 3.000	1st Qu.: 5.000	
##	Median :0.0000	Median : 5.000	Median : 8.000	
##	Mean :0.1297	Mean : 5.219	Mean : 8.758	
##	3rd Qu.:0.0000	3rd Qu.: 7.000	3rd Qu.:12.000	
##	Max. :3.0000	Max. :22.000	Max. :28.000	
##	Contested.Marks	Marks.Inside.50	One.Percenters	Bounces
##	Min. :0.0000	Min. : 0.0000	Min. : 0.000	Min. : 0.0000
##	1st Qu.:0.0000	1st Qu.: 0.0000	1st Qu.: 1.000	1st Qu.: 0.0000
##	Median :0.0000	Median : 0.0000	Median : 2.000	Median : 0.0000
##	Mean :0.4359	Mean : 0.5973	Mean : 2.065	Mean : 0.7326
##	3rd Qu.:1.0000	3rd Qu.: 1.0000	3rd Qu.: 3.000	3rd Qu.: 1.0000
##	Max. :8.0000	Max. :12.0000	Max. :15.000	Max. :14.0000
##	Goal.Assists	Time.on.Ground..	Substitute	Umpire.1
##	Min. :0.0000	Min. : 0.00	Min. :0	Length:8140
##	1st Qu.:0.0000	1st Qu.: 71.00	1st Qu.:0	Class :character
##	Median :0.0000	Median : 88.00	Median :0	Mode :character
##	Mean :0.3564	Mean : 81.83	Mean :0	
##	3rd Qu.:1.0000	3rd Qu.: 99.00	3rd Qu.:0	
##	Max. :6.0000	Max. :100.00	Max. :0	
##	Umpire.2	Umpire.3	Umpire.4	group_id

```

## Length:8140      Length:8140      Length:8140      Min.   :12660
## Class :character  Class :character  Class :character  1st Qu.:12706
## Mode  :character  Mode  :character  Mode  :character  Median :12752
##                                           Mean  :12752
##                                           3rd Qu.:12798
##                                           Max.   :12844
##
##      AF      countgames      Z_score
## Min.   : -4.00   Min.   : 1.00   Min.   : -2.39915
## 1st Qu.: 42.00   1st Qu.:15.00   1st Qu.: -0.71001
## Median : 59.00   Median :20.00   Median : -0.08576
## Mean   : 61.34   Mean   :18.37   Mean   : 0.00000
## 3rd Qu.: 79.00   3rd Qu.:22.00   3rd Qu.: 0.64865
## Max.   :183.00   Max.   :26.00   Max.   : 4.46758
##
## $`2006`
##      Season      Round      Date      Local.start.time
## Min.   :2006      Length:8140      Min.   :2006-03-30      Min.   :1240
## 1st Qu.:2006      Class :character  1st Qu.:2006-05-07      1st Qu.:1410
## Median :2006      Mode  :character  Median :2006-06-18      Median :1430
## Mean   :2006                                           Mean   :1601
## 3rd Qu.:2006                                           3rd Qu.:1910
## Max.   :2006                                           Max.   :2010
##      Venue      Attendance      Home.team      HQ1G
## Length:8140      Min.   : 8258      Length:8140      Min.   :0.000
## Class :character  1st Qu.:27745      Class :character  1st Qu.:2.000
## Mode  :character  Median :35090      Mode  :character  Median :3.000
##                                           Mean   :3.422
##                                           3rd Qu.:5.000
##                                           Max.   :9.000
##      HQ1B      HQ2G      HQ2B      HQ3G
## Min.   :0.00   Min.   : 1.0   Min.   : 1.000   Min.   : 2.00
## 1st Qu.:2.00   1st Qu.: 5.0   1st Qu.: 4.000   1st Qu.: 7.00
## Median :3.00   Median : 7.0   Median : 6.000   Median :11.00
## Mean   :3.07   Mean   : 6.8   Mean   : 6.346   Mean   :10.43
## 3rd Qu.:4.00   3rd Qu.: 8.0   3rd Qu.: 8.000   3rd Qu.:13.00
## Max.   :8.00   Max.   :15.0   Max.   :12.000   Max.   :20.00
##      HQ3B      HQ4G      HQ4B      Home.score
## Min.   : 2.000   Min.   : 4.00   Min.   : 3.00   Min.   : 34.00
## 1st Qu.: 7.000   1st Qu.:11.00   1st Qu.:10.00   1st Qu.: 78.00
## Median :10.000   Median :13.00   Median :13.00   Median : 92.00
## Mean   : 9.524   Mean   :13.92   Mean   :12.66   Mean   : 96.17
## 3rd Qu.:11.000   3rd Qu.:17.00   3rd Qu.:15.00   3rd Qu.:113.00
## Max.   :18.000   Max.   :30.00   Max.   :23.00   Max.   :188.00
##      Away.team      AQ1G      AQ1B      AQ2G
## Length:8140      Min.   :0.000   Min.   :0.000   Min.   : 1.000
## Class :character  1st Qu.:2.000   1st Qu.:2.000   1st Qu.: 4.000
## Mode  :character  Median :3.000   Median :3.000   Median : 6.000
##                                           Mean   :3.292   Mean   :2.838   Mean   : 6.416
##                                           3rd Qu.:4.000   3rd Qu.:4.000   3rd Qu.: 8.000
##                                           Max.   :9.000   Max.   :8.000   Max.   :16.000
##      AQ2B      AQ3G      AQ3B      AQ4G
## Min.   : 0.000   Min.   : 2.000   Min.   : 2.000   Min.   : 4.00
## 1st Qu.: 4.000   1st Qu.: 7.000   1st Qu.: 6.000   1st Qu.: 9.00
## Median : 6.000   Median :10.000   Median : 8.000   Median :13.00

```

##	Mean	: 5.784	Mean	: 9.811	Mean	: 8.632	Mean	:12.89
##	3rd Qu.:	7.000	3rd Qu.:	12.000	3rd Qu.:	11.000	3rd Qu.:	15.00
##	Max.	:13.000	Max.	:23.000	Max.	:17.000	Max.	:28.00
##	AQ4B		Away.score		First.name		Surname	
##	Min.	: 2.0	Min.	: 36.00	Length:8140		Length:8140	
##	1st Qu.:	9.0	1st Qu.:	70.00	Class :character		Class :character	
##	Median	:12.0	Median	: 88.00	Mode :character		Mode :character	
##	Mean	:11.6	Mean	: 88.92				
##	3rd Qu.:	14.0	3rd Qu.:	105.00				
##	Max.	:21.0	Max.	:180.00				
##	ID		Jumper.No.		Playing.for		Kicks	
##	Min.	: 4	Min.	: 1.00	Length:8140		Min.	: 0.000
##	1st Qu.:	622	1st Qu.:	9.00	Class :character		1st Qu.:	6.000
##	Median	:1065	Median	:19.00	Mode :character		Median	: 9.000
##	Mean	:1664	Mean	:19.78			Mean	: 9.412
##	3rd Qu.:	3938	3rd Qu.:	30.00			3rd Qu.:	13.000
##	Max.	:4200	Max.	:47.00			Max.	:30.000
##	Marks		Handballs		Goals		Behinds	
##	Min.	: 0.000	Min.	: 0.000	Min.	: 0.0000	Min.	:0.0000
##	1st Qu.:	3.000	1st Qu.:	3.000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	: 5.000	Median	: 5.000	Median	: 0.0000	Median	:0.0000
##	Mean	: 4.951	Mean	: 5.996	Mean	: 0.6092	Mean	:0.4343
##	3rd Qu.:	7.000	3rd Qu.:	8.000	3rd Qu.:	1.0000	3rd Qu.:	1.0000
##	Max.	:22.000	Max.	:27.000	Max.	:10.0000	Max.	:6.0000
##	Hit.Outs		Tackles		Rebounds		Inside.50s	
##	Min.	: 0.00	Min.	: 0.000	Min.	: 0.000	Min.	: 0.000
##	1st Qu.:	0.00	1st Qu.:	1.000	1st Qu.:	0.000	1st Qu.:	1.000
##	Median	: 0.00	Median	: 2.000	Median	: 1.000	Median	: 2.000
##	Mean	: 1.37	Mean	: 2.234	Mean	: 1.718	Mean	: 2.277
##	3rd Qu.:	0.00	3rd Qu.:	3.000	3rd Qu.:	3.000	3rd Qu.:	3.000
##	Max.	:49.00	Max.	:15.000	Max.	:16.000	Max.	:12.000
##	Clearances		Clangers		Frees.For		Frees.Against	
##	Min.	: 0.000	Min.	: 0.000	Min.	:0.0000	Min.	:0.0000
##	1st Qu.:	0.000	1st Qu.:	1.000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	: 1.000	Median	: 2.000	Median	:1.0000	Median	:1.0000
##	Mean	: 1.431	Mean	: 1.974	Mean	:0.7569	Mean	:0.7525
##	3rd Qu.:	2.000	3rd Qu.:	3.000	3rd Qu.:	1.0000	3rd Qu.:	1.0000
##	Max.	:12.000	Max.	:12.000	Max.	:7.0000	Max.	:6.0000
##	Brownlow.Votes		Contested.Possessions		Uncontested.Possessions			
##	Min.	:0.0000	Min.	: 0.000	Min.	: 0.00		
##	1st Qu.:	0.0000	1st Qu.:	3.000	1st Qu.:	6.00		
##	Median	:0.0000	Median	: 5.000	Median	: 9.00		
##	Mean	:0.1297	Mean	: 5.177	Mean	:10.14		
##	3rd Qu.:	0.0000	3rd Qu.:	7.000	3rd Qu.:	14.00		
##	Max.	:3.0000	Max.	:28.000	Max.	:32.00		
##	Contested.Marks		Marks.Inside.50		One.Percenters		Bounces	
##	Min.	:0.0000	Min.	: 0.0000	Min.	: 0.00	Min.	: 0.0000
##	1st Qu.:	0.0000	1st Qu.:	0.0000	1st Qu.:	1.00	1st Qu.:	0.0000
##	Median	:0.0000	Median	: 0.0000	Median	: 2.00	Median	: 0.0000
##	Mean	:0.4364	Mean	: 0.6518	Mean	: 2.05	Mean	: 0.9426
##	3rd Qu.:	1.0000	3rd Qu.:	1.0000	3rd Qu.:	3.00	3rd Qu.:	1.0000
##	Max.	:9.0000	Max.	:13.0000	Max.	:15.00	Max.	:19.0000
##	Goal.Assists		Time.on.Ground..		Substitute		Umpire.1	
##	Min.	:0.00	Min.	: 1.00	Min.	:0	Length:8140	

```

## 1st Qu.:0.00 1st Qu.: 73.00 1st Qu.:0 Class :character
## Median :0.00 Median : 86.00 Median :0 Mode :character
## Mean :0.34 Mean : 81.83 Mean :0
## 3rd Qu.:1.00 3rd Qu.: 95.25 3rd Qu.:0
## Max. :6.00 Max. :100.00 Max. :0
## Umpire.2 Umpire.3 Umpire.4 group_id
## Length:8140 Length:8140 Length:8140 Min. :12845
## Class :character Class :character Class :character 1st Qu.:12891
## Mode :character Mode :character Mode :character Median :12937
## Mean :12937
## 3rd Qu.:12983
## Max. :13029
## AF countgames Z_score
## Min. : -3.00 Min. : 1.00 Min. : -2.55361
## 1st Qu.: 48.00 1st Qu.:15.00 1st Qu.: -0.71868
## Median : 67.00 Median :21.00 Median : -0.03508
## Mean : 67.97 Mean :18.42 Mean : 0.00000
## 3rd Qu.: 87.00 3rd Qu.:22.00 3rd Qu.: 0.68450
## Max. :189.00 Max. :26.00 Max. : 4.35436
##
## $`2007`
## Season Round Date Local.start.time
## Min. :2007 Length:8140 Min. :2007-03-30 Min. :1240
## 1st Qu.:2007 Class :character 1st Qu.:2007-05-06 1st Qu.:1410
## Median :2007 Mode :character Median :2007-06-17 Median :1440
## Mean :2007 Mean :2007-06-20 Mean :1617
## 3rd Qu.:2007 3rd Qu.:2007-08-04 3rd Qu.:1910
## Max. :2007 Max. :2007-09-29 Max. :1950
## Venue Attendance Home.team HQ1G
## Length:8140 Min. :11133 Length:8140 Min. :0.000
## Class :character 1st Qu.:27045 Class :character 1st Qu.:2.000
## Mode :character Median :37002 Mode :character Median :4.000
## Mean :38108 Mean :3.632
## 3rd Qu.:43752 3rd Qu.:5.000
## Max. :98002 Max. :8.000
## HQ1B HQ2G HQ2B HQ3G
## Min. :0.00 Min. : 2.000 Min. : 1.000 Min. : 3.00
## 1st Qu.:2.00 1st Qu.: 5.000 1st Qu.: 5.000 1st Qu.: 8.00
## Median :3.00 Median : 7.000 Median : 6.000 Median :10.00
## Mean :3.33 Mean : 6.957 Mean : 6.524 Mean :10.61
## 3rd Qu.:4.00 3rd Qu.: 9.000 3rd Qu.: 8.000 3rd Qu.:13.00
## Max. :9.00 Max. :14.000 Max. :14.000 Max. :20.00
## HQ3B HQ4G HQ4B Home.score
## Min. : 3.000 Min. : 7.00 Min. : 4.00 Min. : 54.00
## 1st Qu.: 8.000 1st Qu.:11.00 1st Qu.:10.00 1st Qu.: 77.00
## Median :10.000 Median :14.00 Median :13.00 Median : 96.00
## Mean : 9.881 Mean :14.37 Mean :12.89 Mean : 99.09
## 3rd Qu.:12.000 3rd Qu.:17.00 3rd Qu.:15.00 3rd Qu.:117.00
## Max. :18.000 Max. :27.00 Max. :25.00 Max. :173.00
## Away.team AQ1G AQ1B AQ2G
## Length:8140 Min. : 0.000 Min. :0.00 Min. : 0.000
## Class :character 1st Qu.: 2.000 1st Qu.:2.00 1st Qu.: 5.000
## Mode :character Median : 3.000 Median :3.00 Median : 6.000
## Mean : 3.324 Mean :3.07 Mean : 6.578

```

##		3rd Qu.: 5.000	3rd Qu.:4.00	3rd Qu.: 8.000
##		Max. :10.000	Max. :9.00	Max. :20.000
##	AQ2B	AQ3G	AQ3B	AQ4G
##	Min. : 1.000	Min. : 2.000	Min. : 1.000	Min. : 4.00
##	1st Qu.: 4.000	1st Qu.: 7.000	1st Qu.: 7.000	1st Qu.:10.00
##	Median : 6.000	Median :10.000	Median : 9.000	Median :13.00
##	Mean : 6.297	Mean : 9.859	Mean : 9.454	Mean :13.24
##	3rd Qu.: 8.000	3rd Qu.:12.000	3rd Qu.:12.000	3rd Qu.:16.00
##	Max. :13.000	Max. :29.000	Max. :18.000	Max. :35.00
##	AQ4B	Away.score	First.name	Surname
##	Min. : 2.00	Min. : 31.00	Length:8140	Length:8140
##	1st Qu.: 9.00	1st Qu.: 72.00	Class :character	Class :character
##	Median :12.00	Median : 91.00	Mode :character	Mode :character
##	Mean :12.23	Mean : 91.65		
##	3rd Qu.:15.00	3rd Qu.:108.00		
##	Max. :23.00	Max. :222.00		
##	ID	Jumper.No.	Playing.for	Kicks
##	Min. : 4	Min. : 1.00	Length:8140	Min. : 0.000
##	1st Qu.: 749	1st Qu.: 9.00	Class :character	1st Qu.: 6.000
##	Median : 1137	Median :19.00	Mode :character	Median : 9.000
##	Mean : 2544	Mean :19.75		Mean : 9.178
##	3rd Qu.: 4065	3rd Qu.:30.00		3rd Qu.:12.000
##	Max. :11623	Max. :48.00		Max. :35.000
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.000	Min. : 0.000	Min. : 0.0000	Min. : 0.0000
##	1st Qu.: 3.000	1st Qu.: 4.000	1st Qu.: 0.0000	1st Qu.: 0.0000
##	Median : 4.000	Median : 6.000	Median : 0.0000	Median : 0.0000
##	Mean : 4.705	Mean : 6.506	Mean : 0.6274	Mean : 0.4399
##	3rd Qu.: 6.000	3rd Qu.: 9.000	3rd Qu.: 1.0000	3rd Qu.: 1.0000
##	Max. :24.000	Max. :26.000	Max. :10.0000	Max. :11.0000
##	Hit.Outs	Tackles	Rebounds	Inside.50s
##	Min. : 0.000	Min. : 0.000	Min. : 0.000	Min. : 0.000
##	1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.: 0.000	1st Qu.: 1.000
##	Median : 0.000	Median : 2.000	Median : 1.000	Median : 2.000
##	Mean : 1.422	Mean : 2.401	Mean : 1.547	Mean : 2.327
##	3rd Qu.: 0.000	3rd Qu.: 3.000	3rd Qu.: 2.000	3rd Qu.: 3.000
##	Max. :44.000	Max. :15.000	Max. :14.000	Max. :12.000
##	Clearances	Clangers	Frees.For	Frees.Against
##	Min. : 0.000	Min. : 0.000	Min. :0.0000	Min. :0.0000
##	1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.:0.0000	1st Qu.:0.0000
##	Median : 1.000	Median : 2.000	Median :1.0000	Median :1.0000
##	Mean : 1.452	Mean : 2.116	Mean :0.8634	Mean :0.8601
##	3rd Qu.: 2.000	3rd Qu.: 3.000	3rd Qu.:1.0000	3rd Qu.:1.0000
##	Max. :13.000	Max. :13.000	Max. :8.0000	Max. :6.0000
##	Brownlow.Votes	Contested.Possessions	Uncontested.Possessions	
##	Min. :0.0000	Min. : 0.000	Min. : 0.00	
##	1st Qu.:0.0000	1st Qu.: 3.000	1st Qu.: 6.00	
##	Median :0.0000	Median : 5.000	Median :10.00	
##	Mean :0.1297	Mean : 5.322	Mean :10.28	
##	3rd Qu.:0.0000	3rd Qu.: 7.000	3rd Qu.:14.00	
##	Max. :3.0000	Max. :21.000	Max. :34.00	
##	Contested.Marks	Marks.Inside.50	One.Percenters	Bounces
##	Min. :0.0000	Min. : 0.0000	Min. : 0.000	Min. : 0.0000
##	1st Qu.:0.0000	1st Qu.: 0.0000	1st Qu.: 1.000	1st Qu.: 0.0000

```

## Median :0.0000 Median : 0.0000 Median : 2.000 Median : 0.0000
## Mean :0.4595 Mean : 0.6421 Mean : 2.133 Mean : 0.8738
## 3rd Qu.:1.0000 3rd Qu.: 1.0000 3rd Qu.: 3.000 3rd Qu.: 1.0000
## Max. :8.0000 Max. :11.0000 Max. :16.000 Max. :17.0000
## Goal.Assists Time.on.Ground.. Substitute Umpire.1
## Min. :0.0000 Min. : 1.00 Min. :0 Length:8140
## 1st Qu.:0.0000 1st Qu.: 74.00 1st Qu.:0 Class :character
## Median :0.0000 Median : 85.00 Median :0 Mode :character
## Mean :0.4244 Mean : 81.82 Mean :0
## 3rd Qu.:1.0000 3rd Qu.: 94.00 3rd Qu.:0
## Max. :7.0000 Max. :100.00 Max. :0
## Umpire.2 Umpire.3 Umpire.4 group_id
## Length:8140 Length:8140 Length:8140 Min. :13030
## Class :character Class :character Class :character 1st Qu.:13076
## Mode :character Mode :character Mode :character Median :13122
## Mean :13122
## 3rd Qu.:13168
## Max. :13214
## AF countgames Z_score
## Min. : -1.00 Min. : 1.0 Min. : -2.51871
## 1st Qu.: 48.00 1st Qu.:16.0 1st Qu.: -0.73459
## Median : 66.00 Median :20.0 Median : -0.07919
## Mean : 68.17 Mean :18.5 Mean : 0.00000
## 3rd Qu.: 87.00 3rd Qu.:23.0 3rd Qu.: 0.68544
## Max. :169.00 Max. :25.0 Max. : 3.67112
##
## $`2008`
## Season Round Date Local.start.time
## Min. :2008 Length:8140 Min. :2008-03-20 Min. :1240
## 1st Qu.:2008 Class :character 1st Qu.:2008-04-27 1st Qu.:1410
## Median :2008 Mode :character Median :2008-06-14 Median :1440
## Mean :2008 Mean :2008-06-15 Mean :1615
## 3rd Qu.:2008 3rd Qu.:2008-08-02 3rd Qu.:1910
## Max. :2008 Max. :2008-09-27 Max. :2015
## Venue Attendance Home.team HQ1G
## Length:8140 Min. : 6354 Length:8140 Min. :0.000
## Class :character 1st Qu.: 27315 Class :character 1st Qu.:2.000
## Mode :character Median : 37275 Mode :character Median :3.000
## Mean : 38287 Mean :3.405
## 3rd Qu.: 44759 3rd Qu.:5.000
## Max. :100012 Max. :9.000
## HQ1B HQ2G HQ2B HQ3G
## Min. : 0.000 Min. : 1.000 Min. : 1.0 Min. : 2.00
## 1st Qu.: 2.000 1st Qu.: 6.000 1st Qu.: 5.0 1st Qu.: 9.00
## Median : 3.000 Median : 7.000 Median : 6.0 Median :11.00
## Mean : 3.438 Mean : 7.151 Mean : 6.6 Mean :10.98
## 3rd Qu.: 4.000 3rd Qu.: 9.000 3rd Qu.: 8.0 3rd Qu.:13.00
## Max. :10.000 Max. :13.000 Max. :16.0 Max. :19.00
## HQ3B HQ4G HQ4B Home.score
## Min. : 2.000 Min. : 5.00 Min. : 2.00 Min. : 39.0
## 1st Qu.: 8.000 1st Qu.:12.00 1st Qu.:10.00 1st Qu.: 81.0
## Median :10.000 Median :15.00 Median :13.00 Median :102.0
## Mean : 9.946 Mean :14.74 Mean :12.98 Mean :101.4
## 3rd Qu.:12.000 3rd Qu.:18.00 3rd Qu.:16.00 3rd Qu.:118.0

```


##	Max.	:22.000	Max.	:27.00	Max.	:24.00	Max.	:173.0
##	Away.team		AQ1G		AQ1B		AQ2G	
##	Length:8140		Min.	:0.000	Min.	:0.000	Min.	:1.000
##	Class :character		1st Qu.:	2.000	1st Qu.:	2.000	1st Qu.:	4.000
##	Mode :character		Median	:3.000	Median	:3.000	Median	:6.000
##			Mean	:3.162	Mean	:2.822	Mean	:6.454
##			3rd Qu.:	4.000	3rd Qu.:	4.000	3rd Qu.:	8.000
##			Max.	:9.000	Max.	:7.000	Max.	:14.000
##	AQ2B		AQ3G		AQ3B		AQ4G	
##	Min.	:1.0	Min.	:2.000	Min.	:1.000	Min.	:5.00
##	1st Qu.:	4.0	1st Qu.:	7.000	1st Qu.:	7.000	1st Qu.:	10.00
##	Median	:6.0	Median	:10.000	Median	:9.000	Median	:13.00
##	Mean	:5.8	Mean	:9.941	Mean	:8.768	Mean	:13.58
##	3rd Qu.:	7.0	3rd Qu.:	12.000	3rd Qu.:	11.000	3rd Qu.:	17.00
##	Max.	:12.0	Max.	:23.000	Max.	:18.000	Max.	:28.00
##	AQ4B		Away.score		First.name		Surname	
##	Min.	:3.00	Min.	:41.00	Length:8140		Length:8140	
##	1st Qu.:	9.00	1st Qu.:	74.00	Class :character		Class :character	
##	Median	:12.00	Median	:89.00	Mode :character		Mode :character	
##	Mean	:11.94	Mean	:93.41				
##	3rd Qu.:	15.00	3rd Qu.:	113.00				
##	Max.	:23.00	Max.	:182.00				
##	ID		Jumper.No.		Playing.for		Kicks	
##	Min.	:30.0	Min.	:1.00	Length:8140		Min.	:0.000
##	1st Qu.:	895.2	1st Qu.:	9.00	Class :character		1st Qu.:	6.000
##	Median	:1461.0	Median	:19.00	Mode :character		Median	:9.000
##	Mean	:3685.9	Mean	:19.88			Mean	:9.093
##	3rd Qu.:	4137.0	3rd Qu.:	30.00			3rd Qu.:	12.000
##	Max.	:11707.0	Max.	:46.00			Max.	:32.000
##	Marks		Handballs		Goals		Behinds	
##	Min.	:0.000	Min.	:0.00	Min.	:0.0000	Min.	:0.0000
##	1st Qu.:	3.000	1st Qu.:	4.00	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	:4.000	Median	:6.00	Median	:0.0000	Median	:0.0000
##	Mean	:4.706	Mean	:7.04	Mean	:0.6435	Mean	:0.4278
##	3rd Qu.:	6.000	3rd Qu.:	9.00	3rd Qu.:	1.0000	3rd Qu.:	1.0000
##	Max.	:23.000	Max.	:30.00	Max.	:9.0000	Max.	:7.0000
##	Hit.Outs		Tackles		Rebounds		Inside.50s	
##	Min.	:0.000	Min.	:0.000	Min.	:0.000	Min.	:0.000
##	1st Qu.:	0.000	1st Qu.:	1.000	1st Qu.:	0.000	1st Qu.:	1.000
##	Median	:0.000	Median	:2.000	Median	:1.000	Median	:2.000
##	Mean	:1.466	Mean	:2.435	Mean	:1.489	Mean	:2.269
##	3rd Qu.:	0.000	3rd Qu.:	3.000	3rd Qu.:	2.000	3rd Qu.:	3.000
##	Max.	:45.000	Max.	:14.000	Max.	:14.000	Max.	:13.000
##	Clearances		Clangers		Frees.For		Frees.Against	
##	Min.	:0.000	Min.	:0.000	Min.	:0.0000	Min.	:0.0000
##	1st Qu.:	0.000	1st Qu.:	1.000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	:1.000	Median	:2.000	Median	:1.0000	Median	:1.0000
##	Mean	:1.466	Mean	:2.144	Mean	:0.9197	Mean	:0.9158
##	3rd Qu.:	2.000	3rd Qu.:	3.000	3rd Qu.:	1.0000	3rd Qu.:	1.0000
##	Max.	:18.000	Max.	:13.000	Max.	:7.0000	Max.	:6.0000
##	Brownlow.Votes		Contested.Possessions		Uncontested.Possessions			
##	Min.	:0.0000	Min.	:0.000	Min.	:0.00		
##	1st Qu.:	0.0000	1st Qu.:	3.000	1st Qu.:	7.00		
##	Median	:0.0000	Median	:5.000	Median	:10.00		

```

## Mean :0.1297 Mean : 5.349 Mean :10.74
## 3rd Qu.:0.0000 3rd Qu.: 7.000 3rd Qu.:14.00
## Max. :3.0000 Max. :21.000 Max. :39.00
## Contested.Marks Marks.Inside.50 One.Percenters Bounces
## Min. :0.0000 Min. : 0.0000 Min. : 0.000 Min. : 0.0000
## 1st Qu.:0.0000 1st Qu.: 0.0000 1st Qu.: 1.000 1st Qu.: 0.0000
## Median :0.0000 Median : 0.0000 Median : 1.000 Median : 0.0000
## Mean :0.4488 Mean : 0.6308 Mean : 1.939 Mean : 0.8076
## 3rd Qu.:1.0000 3rd Qu.: 1.0000 3rd Qu.: 3.000 3rd Qu.: 1.0000
## Max. :9.0000 Max. :12.0000 Max. :14.000 Max. :17.0000
## Goal.Assists Time.on.Ground.. Substitute Umpire.1
## Min. :0.0000 Min. : 2.00 Min. :0 Length:8140
## 1st Qu.:0.0000 1st Qu.: 75.00 1st Qu.:0 Class :character
## Median :0.0000 Median : 84.00 Median :0 Mode :character
## Mean :0.4337 Mean : 81.82 Mean :0
## 3rd Qu.:1.0000 3rd Qu.: 91.00 3rd Qu.:0
## Max. :5.0000 Max. :100.00 Max. :0
## Umpire.2 Umpire.3 Umpire.4 group_id
## Length:8140 Length:8140 Length:8140 Min. :13215
## Class :character Class :character Class :character 1st Qu.:13261
## Mode :character Mode :character Mode :character Median :13307
## Mean :13307
## 3rd Qu.:13353
## Max. :13399
## AF countgames Z_score
## Min. : -2.00 Min. : 1.00 Min. : -2.66002
## 1st Qu.: 50.00 1st Qu.:15.00 1st Qu.: -0.71572
## Median : 67.00 Median :20.00 Median : -0.08008
## Mean : 69.14 Mean :18.32 Mean : 0.00000
## 3rd Qu.: 87.00 3rd Qu.:22.00 3rd Qu.: 0.66773
## Max. :180.00 Max. :25.00 Max. : 4.14505
##
## $`2009`
## Season Round Date Local.start.time
## Min. :2009 Length:8140 Min. :2009-03-26 Min. :1240
## 1st Qu.:2009 Class :character 1st Qu.:2009-05-03 1st Qu.:1410
## Median :2009 Mode :character Median :2009-06-14 Median :1440
## Mean :2009 Mean :2009-06-17 Mean :1622
## 3rd Qu.:2009 3rd Qu.:2009-08-01 3rd Qu.:1910
## Max. :2009 Max. :2009-09-26 Max. :1945
## Venue Attendance Home.team HQ1G
## Length:8140 Min. : 7311 Length:8140 Min. :0.000
## Class :character 1st Qu.:27221 Class :character 1st Qu.:2.000
## Mode :character Median :34793 Mode :character Median :3.000
## Mean :37760 Mean :3.373
## 3rd Qu.:44114 3rd Qu.:5.000
## Max. :99251 Max. :9.000
## HQ1B HQ2G HQ2B HQ3G
## Min. :0.000 Min. : 0.000 Min. : 1.000 Min. : 1.00
## 1st Qu.:2.000 1st Qu.: 5.000 1st Qu.: 4.000 1st Qu.: 8.00
## Median :3.000 Median : 7.000 Median : 6.000 Median :11.00
## Mean :3.059 Mean : 7.092 Mean : 5.827 Mean :10.59
## 3rd Qu.:4.000 3rd Qu.: 9.000 3rd Qu.: 7.000 3rd Qu.:13.00
## Max. :8.000 Max. :15.000 Max. :14.000 Max. :20.00

```

##	HQ3B	HQ4G	HQ4B	Home.score
##	Min. : 2.000	Min. : 4.00	Min. : 3.00	Min. : 34.00
##	1st Qu.: 7.000	1st Qu.:11.00	1st Qu.: 9.00	1st Qu.: 77.00
##	Median : 9.000	Median :14.00	Median :12.00	Median : 95.00
##	Mean : 8.843	Mean :13.95	Mean :11.82	Mean : 95.52
##	3rd Qu.:11.000	3rd Qu.:17.00	3rd Qu.:14.00	3rd Qu.:112.00
##	Max. :18.000	Max. :26.00	Max. :23.00	Max. :169.00
##	Away.team	AQ1G	AQ1B	AQ2G
##	Length:8140	Min. : 0.00	Min. :0.000	Min. : 0.000
##	Class :character	1st Qu.: 2.00	1st Qu.:2.000	1st Qu.: 4.000
##	Mode :character	Median : 3.00	Median :3.000	Median : 6.000
##		Mean : 2.87	Mean :2.886	Mean : 6.022
##		3rd Qu.: 4.00	3rd Qu.:4.000	3rd Qu.: 8.000
##		Max. :10.00	Max. :8.000	Max. :13.000
##	AQ2B	AQ3G	AQ3B	AQ4G
##	Min. : 0.000	Min. : 1.000	Min. : 2.000	Min. : 1.00
##	1st Qu.: 4.000	1st Qu.: 7.000	1st Qu.: 6.000	1st Qu.:10.00
##	Median : 6.000	Median : 9.000	Median : 8.000	Median :13.00
##	Mean : 5.514	Mean : 9.454	Mean : 8.195	Mean :12.61
##	3rd Qu.: 7.000	3rd Qu.:12.000	3rd Qu.:10.000	3rd Qu.:15.00
##	Max. :16.000	Max. :20.000	Max. :19.000	Max. :27.00
##	AQ4B	Away.score	First.name	Surname
##	Min. : 2.00	Min. : 13.00	Length:8140	Length:8140
##	1st Qu.: 8.00	1st Qu.: 68.00	Class :character	Class :character
##	Median :11.00	Median : 87.00	Mode :character	Mode :character
##	Mean :10.92	Mean : 86.56		
##	3rd Qu.:14.00	3rd Qu.:102.00		
##	Max. :21.00	Max. :176.00		
##	ID	Jumper.No.	Playing.for	Kicks
##	Min. : 30	Min. : 1.00	Length:8140	Min. : 0.000
##	1st Qu.: 1089	1st Qu.: 9.00	Class :character	1st Qu.: 6.000
##	Median : 4043	Median :19.00	Mode :character	Median : 8.000
##	Mean : 4936	Mean :20.39		Mean : 8.948
##	3rd Qu.:11554	3rd Qu.:30.00		3rd Qu.:12.000
##	Max. :11793	Max. :49.00		Max. :31.000
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.000	Min. : 0.00	Min. :0.0000	Min. :0.0000
##	1st Qu.: 2.000	1st Qu.: 5.00	1st Qu.:0.0000	1st Qu.:0.0000
##	Median : 4.000	Median : 7.00	Median :0.0000	Median :0.0000
##	Mean : 4.427	Mean : 8.05	Mean :0.6036	Mean :0.4318
##	3rd Qu.: 6.000	3rd Qu.:11.00	3rd Qu.:1.0000	3rd Qu.:1.0000
##	Max. :19.000	Max. :33.00	Max. :9.0000	Max. :7.0000
##	Hit.Outs	Tackles	Rebounds	Inside.50s
##	Min. : 0.000	Min. : 0.000	Min. : 0.000	Min. : 0.000
##	1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.: 0.000	1st Qu.: 1.000
##	Median : 0.000	Median : 2.000	Median : 1.000	Median : 2.000
##	Mean : 1.628	Mean : 2.822	Mean : 1.503	Mean : 2.238
##	3rd Qu.: 0.000	3rd Qu.: 4.000	3rd Qu.: 2.000	3rd Qu.: 3.000
##	Max. :53.000	Max. :16.000	Max. :12.000	Max. :13.000
##	Clearances	Clangers	Frees.For	Frees.Against
##	Min. : 0.00	Min. :0.000	Min. :0.000	Min. :0.0000
##	1st Qu.: 0.00	1st Qu.:1.000	1st Qu.:0.000	1st Qu.:0.0000
##	Median : 1.00	Median :2.000	Median :1.000	Median :1.0000
##	Mean : 1.55	Mean :1.972	Mean :0.812	Mean :0.8085

```

## 3rd Qu.: 2.00 3rd Qu.:3.000 3rd Qu.:1.000 3rd Qu.:1.0000
## Max. :15.00 Max. :9.000 Max. :8.000 Max. :6.0000
## Brownlow.Votes Contested.Possessions Uncontested.Possessions
## Min. :0.0000 Min. : 0.000 Min. : 0.00
## 1st Qu.:0.0000 1st Qu.: 3.000 1st Qu.: 7.00
## Median :0.0000 Median : 5.000 Median :10.00
## Mean :0.1297 Mean : 5.639 Mean :11.22
## 3rd Qu.:0.0000 3rd Qu.: 7.000 3rd Qu.:15.00
## Max. :3.0000 Max. :21.000 Max. :41.00
## Contested.Marks Marks.Inside.50 One.Percenters Bounces
## Min. :0.0000 Min. : 0.000 Min. : 0.000 Min. : 0.0000
## 1st Qu.:0.0000 1st Qu.: 0.000 1st Qu.: 1.000 1st Qu.: 0.0000
## Median :0.0000 Median : 0.000 Median : 2.000 Median : 0.0000
## Mean :0.4703 Mean : 0.595 Mean : 2.023 Mean : 0.6871
## 3rd Qu.:1.0000 3rd Qu.: 1.000 3rd Qu.: 3.000 3rd Qu.: 1.0000
## Max. :8.0000 Max. :11.000 Max. :18.000 Max. :20.0000
## Goal.Assists Time.on.Ground.. Substitute Umpire.1
## Min. :0.0000 Min. : 2.00 Min. :0 Length:8140
## 1st Qu.:0.0000 1st Qu.: 76.00 1st Qu.:0 Class :character
## Median :0.0000 Median : 84.00 Median :0 Mode :character
## Mean :0.4124 Mean : 81.83 Mean :0
## 3rd Qu.:1.0000 3rd Qu.: 90.00 3rd Qu.:0
## Max. :5.0000 Max. :100.00 Max. :0
## Umpire.2 Umpire.3 Umpire.4 group_id
## Length:8140 Length:8140 Length:8140 Min. :13400
## Class :character Class :character Class :character 1st Qu.:13446
## Mode :character Mode :character Mode :character Median :13492
## Mean :13492
## 3rd Qu.:13538
## Max. :13584
## AF countgames Z_score
## Min. : -1.00 Min. : 1.00 Min. : -2.70806
## 1st Qu.: 52.00 1st Qu.:15.00 1st Qu.: -0.73055
## Median : 70.00 Median :20.00 Median : -0.05894
## Mean : 71.58 Mean :18.04 Mean : 0.00000
## 3rd Qu.: 89.00 3rd Qu.:22.00 3rd Qu.: 0.64998
## Max. :185.00 Max. :25.00 Max. : 4.23188
##
## $`2010`
## Season Round Date Local.start.time
## Min. :2010 Length:8184 Min. :2010-03-25 Min. :1240
## 1st Qu.:2010 Class :character 1st Qu.:2010-05-02 1st Qu.:1410
## Median :2010 Mode :character Median :2010-06-13 Median :1440
## Mean :2010 Mean :2010-06-16 Mean :1625
## 3rd Qu.:2010 3rd Qu.:2010-07-31 3rd Qu.:1910
## Max. :2010 Max. :2010-10-02 Max. :2010
## Venue Attendance Home.team HQ1G
## Length:8184 Min. : 8848 Length:8184 Min. :0.000
## Class :character 1st Qu.: 27358 Class :character 1st Qu.:2.000
## Mode :character Median : 34467 Mode :character Median :3.000
## Mean : 38423 Mean :3.599
## 3rd Qu.: 43732 3rd Qu.:5.000
## Max. :100016 Max. :9.000
## HQ1B HQ2G HQ2B HQ3G

```

##	Min.	:0.000	Min.	: 1.00	Min.	: 0.000	Min.	: 3.00
##	1st Qu.:	2.000	1st Qu.:	5.00	1st Qu.:	5.000	1st Qu.:	8.00
##	Median	:3.000	Median	: 7.00	Median	: 6.000	Median	:10.00
##	Mean	:3.156	Mean	: 6.96	Mean	: 6.118	Mean	:10.45
##	3rd Qu.:	4.000	3rd Qu.:	9.00	3rd Qu.:	8.000	3rd Qu.:	12.00
##	Max.	:7.000	Max.	:14.00	Max.	:15.000	Max.	:20.00
##	HQ3B		HQ4G		HQ4B		Home.score	
##	Min.	: 1.000	Min.	: 3.0	Min.	: 3.00	Min.	: 30.00
##	1st Qu.:	7.000	1st Qu.:	10.0	1st Qu.:	10.00	1st Qu.:	74.00
##	Median	: 9.000	Median	:14.0	Median	:12.00	Median	: 97.00
##	Mean	: 9.414	Mean	:13.8	Mean	:12.44	Mean	: 95.23
##	3rd Qu.:	11.000	3rd Qu.:	17.0	3rd Qu.:	15.00	3rd Qu.:	114.00
##	Max.	:19.000	Max.	:24.0	Max.	:23.00	Max.	:161.00
##	Away.team		AQ1G		AQ1B		AQ2G	
##	Length:8184		Min.	:0.000	Min.	:0.000	Min.	: 1.000
##	Class :character		1st Qu.:	2.000	1st Qu.:	2.000	1st Qu.:	4.000
##	Mode :character		Median	:3.000	Median	:2.000	Median	: 6.000
##			Mean	:2.938	Mean	:2.694	Mean	: 6.035
##			3rd Qu.:	4.000	3rd Qu.:	4.000	3rd Qu.:	8.000
##			Max.	:8.000	Max.	:8.000	Max.	:14.000
##	AQ2B		AQ3G		AQ3B		AQ4G	
##	Min.	: 0.000	Min.	: 1.000	Min.	: 0.000	Min.	: 4.00
##	1st Qu.:	4.000	1st Qu.:	7.000	1st Qu.:	6.000	1st Qu.:	9.00
##	Median	: 5.000	Median	: 9.000	Median	: 8.000	Median	:12.00
##	Mean	: 5.543	Mean	: 9.188	Mean	: 8.269	Mean	:12.31
##	3rd Qu.:	7.000	3rd Qu.:	11.000	3rd Qu.:	10.250	3rd Qu.:	14.00
##	Max.	:12.000	Max.	:20.000	Max.	:19.000	Max.	:25.00
##	AQ4B		Away.score		First.name		Surname	
##	Min.	: 1.00	Min.	: 37.0	Length:8184		Length:8184	
##	1st Qu.:	9.00	1st Qu.:	67.0	Class :character		Class :character	
##	Median	:11.00	Median	: 81.5	Mode :character		Mode :character	
##	Mean	:11.25	Mean	: 85.1				
##	3rd Qu.:	14.00	3rd Qu.:	100.0				
##	Max.	:23.00	Max.	:162.0				
##	ID		Jumper.No.		Playing.for		Kicks	
##	Min.	: 30	Min.	: 1.00	Length:8184		Min.	: 0.000
##	1st Qu.:	1193	1st Qu.:	9.00	Class :character		1st Qu.:	6.000
##	Median	: 4133	Median	:19.00	Mode :character		Median	: 9.000
##	Mean	: 6136	Mean	:20.56			Mean	: 9.135
##	3rd Qu.:	11658	3rd Qu.:	31.00			3rd Qu.:	12.000
##	Max.	:11881	Max.	:50.00			Max.	:35.000
##	Marks		Handballs		Goals		Behinds	
##	Min.	: 0.000	Min.	: 0.000	Min.	: 0.0000	Min.	:0.0000
##	1st Qu.:	2.000	1st Qu.:	4.000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median	: 4.000	Median	: 7.000	Median	: 0.0000	Median	:0.0000
##	Mean	: 4.291	Mean	: 7.662	Mean	: 0.5934	Mean	:0.4359
##	3rd Qu.:	6.000	3rd Qu.:	10.000	3rd Qu.:	1.0000	3rd Qu.:	1.0000
##	Max.	:22.000	Max.	:30.000	Max.	:12.0000	Max.	:7.0000
##	Hit.Outs		Tackles		Rebounds		Inside.50s	
##	Min.	: 0.000	Min.	: 0.000	Min.	: 0.000	Min.	: 0.000
##	1st Qu.:	0.000	1st Qu.:	1.000	1st Qu.:	0.000	1st Qu.:	1.000
##	Median	: 0.000	Median	: 3.000	Median	: 1.000	Median	: 2.000
##	Mean	: 1.639	Mean	: 3.074	Mean	: 1.522	Mean	: 2.275
##	3rd Qu.:	0.000	3rd Qu.:	4.000	3rd Qu.:	2.000	3rd Qu.:	3.000

```

## Max. :49.000 Max. :15.000 Max. :12.000 Max. :13.000
## Clearances Clangers Frees.For Frees.Against
## Min. : 0.000 Min. :0.000 Min. :0.0000 Min. :0.0000
## 1st Qu.: 0.000 1st Qu.:1.000 1st Qu.:0.0000 1st Qu.:0.0000
## Median : 1.000 Median :2.000 Median :1.0000 Median :1.0000
## Mean : 1.595 Mean :2.051 Mean :0.8755 Mean :0.8712
## 3rd Qu.: 2.000 3rd Qu.:3.000 3rd Qu.:1.0000 3rd Qu.:1.0000
## Max. :14.000 Max. :9.000 Max. :7.0000 Max. :7.0000
## Brownlow.Votes Contested.Possessions Uncontested.Possessions
## Min. :0.000 Min. : 0.000 Min. : 0.00
## 1st Qu.:0.000 1st Qu.: 4.000 1st Qu.: 7.00
## Median :0.000 Median : 6.000 Median :10.00
## Mean :0.129 Mean : 6.082 Mean :10.52
## 3rd Qu.:0.000 3rd Qu.: 8.000 3rd Qu.:14.00
## Max. :3.000 Max. :28.000 Max. :33.00
## Contested.Marks Marks.Inside.50 One.Percenters Bounces
## Min. :0.000 Min. : 0.0000 Min. : 0.000 Min. : 0.0000
## 1st Qu.:0.000 1st Qu.: 0.0000 1st Qu.: 1.000 1st Qu.: 0.0000
## Median :0.000 Median : 0.0000 Median : 2.000 Median : 0.0000
## Mean :0.522 Mean : 0.5547 Mean : 2.163 Mean : 0.5104
## 3rd Qu.:1.000 3rd Qu.: 1.0000 3rd Qu.: 3.000 3rd Qu.: 1.0000
## Max. :8.000 Max. :11.0000 Max. :16.000 Max. :14.0000
## Goal.Assists Time.on.Ground.. Substitute Umpire.1
## Min. :0.0000 Min. : 1.00 Min. :0 Length:8184
## 1st Qu.:0.0000 1st Qu.: 76.00 1st Qu.:0 Class :character
## Median :0.0000 Median : 83.00 Median :0 Mode :character
## Mean :0.3827 Mean : 81.81 Mean :0
## 3rd Qu.:1.0000 3rd Qu.: 89.00 3rd Qu.:0
## Max. :7.0000 Max. :100.00 Max. :0
## Umpire.2 Umpire.3 Umpire.4 group_id
## Length:8184 Length:8184 Length:8184 Min. :13585
## Class :character Class :character Class :character 1st Qu.:13631
## Mode :character Mode :character Mode :character Median :13678
## Mean :13678
## 3rd Qu.:13724
## Max. :13771
## AF countgames Z_score
## Min. : 0.0 Min. : 1.00 Min. : -2.7264
## 1st Qu.: 53.0 1st Qu.:15.00 1st Qu.: -0.7138
## Median : 70.0 Median :20.00 Median : -0.0683
## Mean : 71.8 Mean :18.03 Mean : 0.0000
## 3rd Qu.: 89.0 3rd Qu.:22.00 3rd Qu.: 0.6532
## Max. :192.0 Max. :26.00 Max. : 4.5644
##
## $`2011`
## Season Round Date Local.start.time
## Min. :2011 Length:8624 Min. :2011-03-24 Min. :1240
## 1st Qu.:2011 Class :character 1st Qu.:2011-05-07 1st Qu.:1410
## Median :2011 Mode :character Median :2011-06-18 Median :1442
## Mean :2011 Mean :2011-06-19 Mean :1620
## 3rd Qu.:2011 3rd Qu.:2011-08-01 3rd Qu.:1910
## Max. :2011 Max. :2011-10-01 Max. :2010
## Venue Attendance Home.team HQ1G
## Length:8624 Min. : 7255 Length:8624 Min. : 0.000

```

##	Class :character	1st Qu.:22986	Class :character	1st Qu.: 2.000
##	Mode :character	Median :33902	Mode :character	Median : 3.000
##		Mean :36428		Mean : 3.276
##		3rd Qu.:42332		3rd Qu.: 4.000
##		Max. :99537		Max. :15.000
##	HQ1B	HQ2G	HQ2B	HQ3G
##	Min. :0.000	Min. : 1.00	Min. : 0.000	Min. : 2.00
##	1st Qu.:2.000	1st Qu.: 5.00	1st Qu.: 4.000	1st Qu.: 8.00
##	Median :3.000	Median : 6.50	Median : 6.000	Median :10.00
##	Mean :3.143	Mean : 6.77	Mean : 6.128	Mean :10.35
##	3rd Qu.:4.000	3rd Qu.: 9.00	3rd Qu.: 8.000	3rd Qu.:13.00
##	Max. :9.000	Max. :20.00	Max. :14.000	Max. :28.00
##	HQ3B	HQ4G	HQ4B	Home.score
##	Min. : 2.000	Min. : 3.00	Min. : 3.00	Min. : 21.00
##	1st Qu.: 7.000	1st Qu.:10.00	1st Qu.: 9.00	1st Qu.: 74.75
##	Median : 9.000	Median :14.00	Median :12.00	Median : 97.50
##	Mean : 9.204	Mean :14.22	Mean :12.28	Mean : 97.62
##	3rd Qu.:11.000	3rd Qu.:17.00	3rd Qu.:15.00	3rd Qu.:114.25
##	Max. :24.000	Max. :37.00	Max. :26.00	Max. :233.00
##	Away.team	AQ1G	AQ1B	AQ2G
##	Length:8624	Min. : 0.000	Min. :0.000	Min. : 1.000
##	Class :character	1st Qu.: 2.000	1st Qu.:2.000	1st Qu.: 4.000
##	Mode :character	Median : 3.000	Median :3.000	Median : 6.000
##		Mean : 3.209	Mean :2.852	Mean : 6.439
##		3rd Qu.: 4.000	3rd Qu.:4.000	3rd Qu.: 8.000
##		Max. :10.000	Max. :8.000	Max. :15.000
##	AQ2B	AQ3G	AQ3B	AQ4G
##	Min. : 0.000	Min. : 2.000	Min. : 1.000	Min. : 3.00
##	1st Qu.: 4.000	1st Qu.: 7.000	1st Qu.: 6.000	1st Qu.: 9.00
##	Median : 6.000	Median : 9.000	Median : 9.000	Median :13.00
##	Mean : 5.709	Mean : 9.602	Mean : 8.668	Mean :12.74
##	3rd Qu.: 7.000	3rd Qu.:12.000	3rd Qu.:11.000	3rd Qu.:15.00
##	Max. :12.000	Max. :22.000	Max. :16.000	Max. :28.00
##	AQ4B	Away.score	First.name	Surname
##	Min. : 2.00	Min. : 24.00	Length:8624	Length:8624
##	1st Qu.: 9.00	1st Qu.: 66.00	Class :character	Class :character
##	Median :11.00	Median : 86.00	Mode :character	Mode :character
##	Mean :11.54	Mean : 87.98		
##	3rd Qu.:14.00	3rd Qu.:104.00		
##	Max. :21.00	Max. :184.00		
##	ID	Jumper.No.	Playing.for	Kicks
##	Min. : 85	Min. : 1.00	Length:8624	Min. : 0.000
##	1st Qu.: 2305	1st Qu.: 9.00	Class :character	1st Qu.: 6.000
##	Median :11548	Median :19.00	Mode :character	Median : 9.000
##	Mean : 7275	Mean :20.48		Mean : 9.322
##	3rd Qu.:11767	3rd Qu.:30.25		3rd Qu.:12.000
##	Max. :12014	Max. :55.00		Max. :31.000
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.00	Min. : 0.000	Min. : 0.0000	Min. :0.0000
##	1st Qu.: 2.00	1st Qu.: 4.000	1st Qu.: 0.0000	1st Qu.:0.0000
##	Median : 4.00	Median : 6.000	Median : 0.0000	Median :0.0000
##	Mean : 3.95	Mean : 7.018	Mean : 0.6128	Mean :0.4402
##	3rd Qu.: 5.00	3rd Qu.: 9.000	3rd Qu.: 1.0000	3rd Qu.:1.0000
##	Max. :17.00	Max. :30.000	Max. :10.0000	Max. :7.0000

```

##      Hit.Outs      Tackles      Rebounds      Inside.50s
## Min.   : 0.000   Min.   : 0.000   Min.   : 0.000   Min.   : 0.000
## 1st Qu.: 0.000   1st Qu.: 1.000   1st Qu.: 0.000   1st Qu.: 1.000
## Median : 0.000   Median : 3.000   Median : 1.000   Median : 2.000
## Mean   : 1.789   Mean   : 3.136   Mean   : 1.562   Mean   : 2.352
## 3rd Qu.: 0.000   3rd Qu.: 4.000   3rd Qu.: 2.000   3rd Qu.: 3.000
## Max.   :56.000   Max.   :19.000   Max.   :13.000   Max.   :14.000
##      Clearances      Clangers      Frees.For      Frees.Against
## Min.   : 0.000   Min.   : 0.000   Min.   :0.0000   Min.   :0.0000
## 1st Qu.: 0.000   1st Qu.: 1.000   1st Qu.:0.0000   1st Qu.:0.0000
## Median : 1.000   Median : 2.000   Median :1.0000   Median :1.0000
## Mean   : 1.728   Mean   : 2.152   Mean   :0.9165   Mean   :0.9135
## 3rd Qu.: 3.000   3rd Qu.: 3.000   3rd Qu.:1.0000   3rd Qu.:1.0000
## Max.   :19.000   Max.   :10.000   Max.   :8.0000   Max.   :7.0000
## Brownlow.Votes   Contested.Possessions   Uncontested.Possessions
## Min.   :0.0000   Min.   : 0.000   Min.   : 0.000
## 1st Qu.:0.0000   1st Qu.: 4.000   1st Qu.: 6.000
## Median :0.0000   Median : 6.000   Median : 9.000
## Mean   :0.1301   Mean   : 6.567   Mean   : 9.686
## 3rd Qu.:0.0000   3rd Qu.: 9.000   3rd Qu.:13.000
## Max.   :3.0000   Max.   :27.000   Max.   :35.000
## Contested.Marks   Marks.Inside.50   One.Percenters      Bounces
## Min.   :0.0000   Min.   : 0.0000   Min.   : 0.000   Min.   : 0.0000
## 1st Qu.:0.0000   1st Qu.: 0.0000   1st Qu.: 1.000   1st Qu.: 0.0000
## Median :0.0000   Median : 0.0000   Median : 2.000   Median : 0.0000
## Mean   :0.5806   Mean   : 0.5355   Mean   : 2.415   Mean   : 0.4452
## 3rd Qu.:1.0000   3rd Qu.: 1.0000   3rd Qu.: 3.000   3rd Qu.: 0.0000
## Max.   :9.0000   Max.   :11.0000   Max.   :21.000   Max.   :18.0000
##      Goal.Assists   Time.on.Ground..   Substitute      Umpire.1
## Min.   : 0.000   Min.   : 1.00   Min.   :0.0000   Length:8624
## 1st Qu.: 0.000   1st Qu.: 79.00   1st Qu.:0.0000   Class :character
## Median : 0.000   Median : 85.00   Median :0.0000   Mode  :character
## Mean   : 0.396   Mean   : 81.84   Mean   :0.1364
## 3rd Qu.: 1.000   3rd Qu.: 91.00   3rd Qu.:0.0000
## Max.   :10.000   Max.   :100.00   Max.   :2.0000
##      Umpire.2      Umpire.3      Umpire.4      group_id
## Length:8624      Length:8624      Length:8624      Min.   :13772
## Class :character   Class :character   Class :character   1st Qu.:13821
## Mode  :character   Mode  :character   Mode  :character   Median :13870
##                                     Mean   :13870
##                                     3rd Qu.:13918
##                                     Max.   :13967
##      AF      countgames      Z_score
## Min.   : -4.00   Min.   : 1.00   Min.   : -2.66043
## 1st Qu.: 51.00   1st Qu.:14.00   1st Qu.: -0.69581
## Median : 69.00   Median :20.00   Median : -0.05285
## Mean   : 70.48   Mean   :17.69   Mean   : 0.00000
## 3rd Qu.: 89.00   3rd Qu.:22.00   3rd Qu.: 0.66155
## Max.   :180.00   Max.   :25.00   Max.   : 3.91209
##
## $`2012`
##      Season      Round      Date      Local.start.time
## Min.   :2012   Length:9108   Min.   :2012-03-24   Min.   :1240
## 1st Qu.:2012   Class :character   1st Qu.:2012-05-06   1st Qu.:1345

```



```

## Median :2012   Mode :character   Median :2012-06-23   Median :1610
## Mean  :2012                                Mean  :2012-06-20   Mean  :1621
## 3rd Qu.:2012                                3rd Qu.:2012-08-04   3rd Qu.:1940
## Max.   :2012                                Max.   :2012-09-29   Max.   :2015
## Venue           Attendance           Home.team           HQ1G
## Length:9108     Min.    : 6696     Length:9108     Min.    :0.00
## Class :character 1st Qu.:18866     Class :character 1st Qu.:2.00
## Mode  :character Median :30172     Mode  :character Median :3.00
##                               Mean  :32748                               Mean  :3.56
##                               3rd Qu.:41649                               3rd Qu.:5.00
##                               Max.   :99683                               Max.   :9.00
## HQ1B           HQ2G           HQ2B           HQ3G
## Min.    :0.000   Min.    : 0.000   Min.    : 1.00   Min.    : 1.00
## 1st Qu.:2.000   1st Qu.: 5.000   1st Qu.: 4.00   1st Qu.: 8.00
## Median :3.000   Median : 7.000   Median : 6.00   Median :10.00
## Mean   :3.121   Mean   : 6.918   Mean   : 6.28   Mean   :10.39
## 3rd Qu.:4.000   3rd Qu.: 9.000   3rd Qu.: 8.00   3rd Qu.:13.00
## Max.   :9.000   Max.   :17.000   Max.   :14.00   Max.   :20.00
## HQ3B           HQ4G           HQ4B           Home.score
## Min.    : 1.000   Min.    : 4      Min.    : 2.00   Min.    : 37.00
## 1st Qu.: 7.000   1st Qu.:11     1st Qu.:10.00   1st Qu.: 77.00
## Median : 9.000   Median :14     Median :12.00   Median : 95.00
## Mean   : 9.657   Mean   :14     Mean   :12.67   Mean   : 96.64
## 3rd Qu.:12.000   3rd Qu.:17     3rd Qu.:15.00   3rd Qu.:115.00
## Max.   :22.000   Max.   :28     Max.   :25.00   Max.   :193.00
## Away.team       AQ1G           AQ1B           AQ2G
## Length:9108     Min.    : 0.000   Min.    :0.000   Min.    : 0.000
## Class :character 1st Qu.: 2.000   1st Qu.:2.000   1st Qu.: 4.000
## Mode  :character Median : 3.000   Median :2.000   Median : 6.000
##                               Mean   : 3.043   Mean   :2.734   Mean   : 6.034
##                               3rd Qu.: 4.000   3rd Qu.:4.000   3rd Qu.: 8.000
##                               Max.   :11.000   Max.   :8.000   Max.   :15.000
## AQ2B           AQ3G           AQ3B           AQ4G
## Min.    : 1.000   Min.    : 2.000   Min.    : 2.000   Min.    : 4.00
## 1st Qu.: 4.000   1st Qu.: 7.000   1st Qu.: 6.000   1st Qu.: 9.00
## Median : 5.000   Median : 9.000   Median : 8.000   Median :12.00
## Mean   : 5.667   Mean   : 9.309   Mean   : 8.391   Mean   :12.66
## 3rd Qu.: 7.000   3rd Qu.:12.000   3rd Qu.:10.000   3rd Qu.:15.00
## Max.   :12.000   Max.   :21.000   Max.   :20.000   Max.   :27.00
## AQ4B           Away.score       First.name       Surname
## Min.    : 3.00   Min.    : 31.00   Length:9108     Length:9108
## 1st Qu.: 8.00   1st Qu.: 65.00   Class :character Class :character
## Median :10.00   Median : 85.00   Mode  :character Mode  :character
## Mean   :11.11   Mean   : 87.08
## 3rd Qu.:13.00   3rd Qu.:105.00
## Max.   :25.00   Max.   :180.00
## ID           Jumper.No.   Playing.for       Kicks
## Min.    : 85     Min.    : 1.00   Length:9108     Min.    : 0.000
## 1st Qu.: 4057   1st Qu.:10.00   Class :character 1st Qu.: 6.000
## Median :11644   Median :20.00   Mode  :character Median : 9.000
## Mean   : 8298   Mean   :20.86    Mean   : 9.363
## 3rd Qu.:11865   3rd Qu.:31.00    3rd Qu.:12.000
## Max.   :12137   Max.   :51.00    Max.   :32.000
## Marks           Handballs           Goals           Behinds

```

##	Min.	: 0.000	Min.	: 0.000	Min.	: 0.0000	Min.	:0.0000
##	1st Qu.:	2.000	1st Qu.:	4.000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median :	4.000	Median :	6.000	Median :	0.0000	Median :	0.0000
##	Mean :	4.004	Mean :	6.863	Mean :	0.6058	Mean :	0.4342
##	3rd Qu.:	6.000	3rd Qu.:	9.000	3rd Qu.:	1.0000	3rd Qu.:	1.0000
##	Max.	:17.000	Max.	:31.000	Max.	:13.0000	Max.	:7.0000
##	Hit.Outs		Tackles		Rebounds		Inside.50s	
##	Min.	: 0.000	Min.	: 0.000	Min.	: 0.000	Min.	: 0.000
##	1st Qu.:	0.000	1st Qu.:	1.000	1st Qu.:	0.000	1st Qu.:	1.000
##	Median :	0.000	Median :	2.000	Median :	1.000	Median :	2.000
##	Mean :	1.805	Mean :	2.894	Mean :	1.516	Mean :	2.326
##	3rd Qu.:	0.000	3rd Qu.:	4.000	3rd Qu.:	2.000	3rd Qu.:	3.000
##	Max.	:61.000	Max.	:17.000	Max.	:12.000	Max.	:14.000
##	Clearances		Clangers		Frees.For		Frees.Against	
##	Min.	: 0.000	Min.	: 0.000	Min.	:0.0000	Min.	:0.0000
##	1st Qu.:	0.000	1st Qu.:	1.000	1st Qu.:	0.0000	1st Qu.:	0.0000
##	Median :	1.000	Median :	2.000	Median :	1.0000	Median :	1.0000
##	Mean :	1.715	Mean :	2.092	Mean :	0.8606	Mean :	0.8552
##	3rd Qu.:	3.000	3rd Qu.:	3.000	3rd Qu.:	1.0000	3rd Qu.:	1.0000
##	Max.	:17.000	Max.	:11.000	Max.	:7.0000	Max.	:7.0000
##	Brownlow.Votes		Contested.Possessions		Uncontested.Possessions			
##	Min.	:0.0000	Min.	: 0.000	Min.	: 0.000		
##	1st Qu.:	0.0000	1st Qu.:	4.000	1st Qu.:	6.000		
##	Median :	0.0000	Median :	6.000	Median :	9.000		
##	Mean :	0.1304	Mean :	6.438	Mean :	9.705		
##	3rd Qu.:	0.0000	3rd Qu.:	8.000	3rd Qu.:	13.000		
##	Max.	:3.0000	Max.	:27.000	Max.	:36.000		
##	Contested.Marks		Marks.Inside.50		One.Percenters		Bounces	
##	Min.	:0.0000	Min.	:0.0000	Min.	: 0.000	Min.	: 0.0000
##	1st Qu.:	0.0000	1st Qu.:	0.0000	1st Qu.:	1.000	1st Qu.:	0.0000
##	Median :	0.0000	Median :	0.0000	Median :	2.000	Median :	0.0000
##	Mean :	0.5281	Mean :	0.5135	Mean :	2.259	Mean :	0.4559
##	3rd Qu.:	1.0000	3rd Qu.:	1.0000	3rd Qu.:	3.000	3rd Qu.:	0.0000
##	Max.	:7.0000	Max.	:9.0000	Max.	:18.000	Max.	:15.0000
##	Goal.Assists		Time.on.Ground..		Substitute		Umpire.1	
##	Min.	:0.0000	Min.	: 1.00	Min.	:0.0000	Length:9108	
##	1st Qu.:	0.0000	1st Qu.:	80.00	1st Qu.:	0.0000	Class :character	
##	Median :	0.0000	Median :	85.00	Median :	0.0000	Mode :character	
##	Mean :	0.3943	Mean :	81.83	Mean :	0.1364		
##	3rd Qu.:	1.0000	3rd Qu.:	90.00	3rd Qu.:	0.0000		
##	Max.	:5.0000	Max.	:100.00	Max.	:2.0000		
##	Umpire.2		Umpire.3		Umpire.4		group_id	
##	Length:9108		Length:9108		Length:9108		Min.	:13968
##	Class :character		Class :character		Class :character		1st Qu.:	14019
##	Mode :character		Mode :character		Mode :character		Median :	14071
##							Mean :	14071
##							3rd Qu.:	14123
##							Max.	:14174
##	AF		countgames		Z_score			
##	Min.	: -3.00	Min.	: 1.00	Min.	:-2.62546		
##	1st Qu.:	50.00	1st Qu.:	14.00	1st Qu.:	-0.70807		
##	Median :	68.00	Median :	20.00	Median :	-0.05688		
##	Mean :	69.57	Mean :	17.74	Mean :	0.00000		
##	3rd Qu.:	88.00	3rd Qu.:	22.00	3rd Qu.:	0.66666		

```

## Max. :204.00 Max. :25.00 Max. : 4.86322
##
## $`2013`
## Season Round Date Local.start.time
## Min. :2013 Length:9108 Min. :2013-03-22 Min. :1240
## 1st Qu.:2013 Class :character 1st Qu.:2013-05-05 1st Qu.:1410
## Median :2013 Mode :character Median :2013-06-22 Median :1640
## Mean :2013 Mean :2013-06-19 Mean :1629
## 3rd Qu.:2013 3rd Qu.:2013-08-03 3rd Qu.:1940
## Max. :2013 Max. :2013-09-28 Max. :2010
## Venue Attendance Home.team HQ1G
## Length:9108 Min. : 5830 Length:9108 Min. :0.000
## Class :character 1st Qu.: 21308 Class :character 1st Qu.:2.000
## Mode :character Median : 30087 Mode :character Median :3.000
## Mean : 33461 Mean :3.415
## 3rd Qu.: 40707 3rd Qu.:5.000
## Max. :100007 Max. :9.000
## HQ1B HQ2G HQ2B HQ3G
## Min. : 0.000 Min. : 1.000 Min. : 0.000 Min. : 3.00
## 1st Qu.: 2.000 1st Qu.: 5.000 1st Qu.: 4.000 1st Qu.: 8.00
## Median : 3.000 Median : 6.000 Median : 6.000 Median :10.00
## Mean : 3.024 Mean : 6.734 Mean : 5.932 Mean :10.24
## 3rd Qu.: 4.000 3rd Qu.: 9.000 3rd Qu.: 7.000 3rd Qu.:12.00
## Max. :10.000 Max. :13.000 Max. :14.000 Max. :21.00
## HQ3B HQ4G HQ4B Home.score
## Min. : 3.000 Min. : 4.00 Min. : 4.00 Min. : 28.00
## 1st Qu.: 7.000 1st Qu.:11.00 1st Qu.:10.00 1st Qu.: 77.00
## Median : 9.000 Median :13.00 Median :12.00 Median : 93.00
## Mean : 9.029 Mean :13.75 Mean :12.23 Mean : 94.72
## 3rd Qu.:11.000 3rd Qu.:17.00 3rd Qu.:14.00 3rd Qu.:114.00
## Max. :20.000 Max. :28.00 Max. :27.00 Max. :184.00
## Away.team AQ1G AQ1B AQ2G
## Length:9108 Min. :0.000 Min. :0.00 Min. : 1.000
## Class :character 1st Qu.:2.000 1st Qu.:2.00 1st Qu.: 4.000
## Mode :character Median :3.000 Median :3.00 Median : 6.000
## Mean :3.039 Mean :2.99 Mean : 6.319
## 3rd Qu.:4.000 3rd Qu.:4.00 3rd Qu.: 8.000
## Max. :8.000 Max. :9.00 Max. :15.000
## AQ2B AQ3G AQ3B AQ4G
## Min. : 1.00 Min. : 2.000 Min. : 2.000 Min. : 4.00
## 1st Qu.: 4.00 1st Qu.: 7.000 1st Qu.: 6.000 1st Qu.:10.00
## Median : 6.00 Median :10.000 Median : 9.000 Median :13.00
## Mean : 5.85 Mean : 9.758 Mean : 8.657 Mean :13.12
## 3rd Qu.: 7.00 3rd Qu.:13.000 3rd Qu.:11.000 3rd Qu.:16.00
## Max. :14.00 Max. :22.000 Max. :19.000 Max. :29.00
## AQ4B Away.score First.name Surname
## Min. : 2.00 Min. : 28.00 Length:9108 Length:9108
## 1st Qu.: 8.00 1st Qu.: 69.00 Class :character Class :character
## Median :11.00 Median : 89.00 Mode :character Mode :character
## Mean :11.37 Mean : 90.07
## 3rd Qu.:14.00 3rd Qu.:109.00
## Max. :24.00 Max. :187.00
## ID Jumper.No. Playing.for Kicks
## Min. : 280 Min. : 1.00 Length:9108 Min. : 0.000

```

##	1st Qu.: 4132	1st Qu.: 9.00	Class :character	1st Qu.: 6.000
##	Median :11724	Median :19.00	Mode :character	Median : 9.000
##	Mean : 8988	Mean :20.29		Mean : 9.409
##	3rd Qu.:11956	3rd Qu.:30.00		3rd Qu.:12.000
##	Max. :12232	Max. :51.00		Max. :34.000
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.000	Min. : 0.000	Min. : 0.0000	Min. :0.000
##	1st Qu.: 2.000	1st Qu.: 4.000	1st Qu.: 0.0000	1st Qu.:0.000
##	Median : 4.000	Median : 6.000	Median : 0.0000	Median :0.000
##	Mean : 4.013	Mean : 6.892	Mean : 0.6106	Mean :0.429
##	3rd Qu.: 6.000	3rd Qu.: 9.000	3rd Qu.: 1.0000	3rd Qu.:1.000
##	Max. :16.000	Max. :30.000	Max. :10.0000	Max. :5.000
##	Hit.Outs	Tackles	Rebounds	Inside.50s
##	Min. : 0.000	Min. : 0.000	Min. : 0.000	Min. : 0.000
##	1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.: 0.000	1st Qu.: 1.000
##	Median : 0.000	Median : 2.000	Median : 1.000	Median : 2.000
##	Mean : 1.795	Mean : 2.862	Mean : 1.516	Mean : 2.304
##	3rd Qu.: 0.000	3rd Qu.: 4.000	3rd Qu.: 2.000	3rd Qu.: 3.000
##	Max. :59.000	Max. :16.000	Max. :13.000	Max. :13.000
##	Clearances	Clangers	Frees.For	Frees.Against
##	Min. : 0.000	Min. : 0.000	Min. :0.000	Min. :0.0000
##	1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.:0.000	1st Qu.:0.0000
##	Median : 1.000	Median : 2.000	Median :1.000	Median :1.0000
##	Mean : 1.699	Mean : 2.045	Mean :0.821	Mean :0.8158
##	3rd Qu.: 3.000	3rd Qu.: 3.000	3rd Qu.:1.000	3rd Qu.:1.0000
##	Max. :16.000	Max. :10.000	Max. :8.000	Max. :8.0000
##	Brownlow.Votes	Contested.Possessions	Uncontested.Possessions	
##	Min. :0.0000	Min. : 0.00	Min. : 0.000	
##	1st Qu.:0.0000	1st Qu.: 4.00	1st Qu.: 6.000	
##	Median :0.0000	Median : 6.00	Median : 9.000	
##	Mean :0.1304	Mean : 6.37	Mean : 9.821	
##	3rd Qu.:0.0000	3rd Qu.: 8.00	3rd Qu.:13.000	
##	Max. :3.0000	Max. :25.00	Max. :40.000	
##	Contested.Marks	Marks.Inside.50	One.Percenters	Bounces
##	Min. :0.0000	Min. : 0.0000	Min. : 0.000	Min. : 0.0000
##	1st Qu.:0.0000	1st Qu.: 0.0000	1st Qu.: 0.000	1st Qu.: 0.0000
##	Median :0.0000	Median : 0.0000	Median : 1.000	Median : 0.0000
##	Mean :0.4857	Mean : 0.5327	Mean : 2.015	Mean : 0.5052
##	3rd Qu.:1.0000	3rd Qu.: 1.0000	3rd Qu.: 3.000	3rd Qu.: 1.0000
##	Max. :7.0000	Max. :10.0000	Max. :19.000	Max. :13.0000
##	Goal.Assists	Time.on.Ground..	Substitute	Umpire.1
##	Min. :0.0000	Min. : 1.00	Min. :0.0000	Length:9108
##	1st Qu.:0.0000	1st Qu.: 80.00	1st Qu.:0.0000	Class :character
##	Median :0.0000	Median : 85.00	Median :0.0000	Mode :character
##	Mean :0.4157	Mean : 81.82	Mean :0.1364	
##	3rd Qu.:1.0000	3rd Qu.: 90.00	3rd Qu.:0.0000	
##	Max. :6.0000	Max. :100.00	Max. :2.0000	
##	Umpire.2	Umpire.3	Umpire.4	group_id
##	Length:9108	Length:9108	Length:9108	Min. :14175
##	Class :character	Class :character	Class :character	1st Qu.:14226
##	Mode :character	Mode :character	Mode :character	Median :14278
##				Mean :14278
##				3rd Qu.:14330
##				Max. :14381

```

##          AF          countgames          Z_score
## Min.    : -6.00    Min.    : 1.00    Min.    :-2.77719
## 1st Qu.: 51.00    1st Qu.:13.00    1st Qu.: -0.68775
## Median : 69.00    Median :19.00    Median : -0.02793
## Mean    : 69.76    Mean    :17.61    Mean     : 0.00000
## 3rd Qu.: 88.00    3rd Qu.:22.00    3rd Qu.: 0.66855
## Max.    :189.00    Max.    :25.00    Max.     : 4.37088
##
## $`2014`
##      Season      Round      Date      Local.start.time
## Min.    :2014    Length:9108    Min.    :2014-03-14    Min.    :1210
## 1st Qu.:2014    Class :character    1st Qu.:2014-04-27    1st Qu.:1410
## Median :2014    Mode  :character    Median :2014-06-14    Median :1640
## Mean    :2014                                Mean    :2014-06-13    Mean    :1647
## 3rd Qu.:2014                                3rd Qu.:2014-08-02    3rd Qu.:1940
## Max.    :2014                                Max.    :2014-09-27    Max.    :1950
##      Venue      Attendance      Home.team      HQ1G
## Length:9108    Min.    : 5655    Length:9108    Min.    :0.000
## Class :character    1st Qu.:20676    Class :character    1st Qu.:2.000
## Mode  :character    Median :32929    Mode  :character    Median :3.000
##                                Mean    :33680                                Mean    :3.188
##                                3rd Qu.:42338                                3rd Qu.:4.000
##                                Max.    :99460                                Max.    :8.000
##      HQ1B      HQ2G      HQ2B      HQ3G
## Min.    :0.000    Min.    : 1.000    Min.    : 0.000    Min.    : 2.000
## 1st Qu.:2.000    1st Qu.: 4.000    1st Qu.: 4.000    1st Qu.: 7.000
## Median :3.000    Median : 6.000    Median : 5.000    Median :10.000
## Mean    :2.633    Mean    : 6.295    Mean    : 5.527    Mean    : 9.797
## 3rd Qu.:4.000    3rd Qu.: 8.000    3rd Qu.: 7.000    3rd Qu.:12.000
## Max.    :8.000    Max.    :14.000    Max.    :12.000    Max.    :21.000
##      HQ3B      HQ4G      HQ4B      Home.score
## Min.    : 1.000    Min.    : 3.00    Min.    : 5.0    Min.    : 28.00
## 1st Qu.: 6.000    1st Qu.:10.00    1st Qu.: 9.0    1st Qu.: 70.00
## Median : 8.000    Median :13.00    Median :11.0    Median : 91.00
## Mean    : 8.604    Mean    :13.09    Mean    :11.8    Mean    : 90.32
## 3rd Qu.:11.000    3rd Qu.:16.00    3rd Qu.:14.0    3rd Qu.:108.00
## Max.    :18.000    Max.    :30.00    Max.    :23.0    Max.    :188.00
##      Away.team      AQ1G      AQ1B      AQ2G
## Length:9108    Min.    :0.000    Min.    :0.000    Min.    : 0.000
## Class :character    1st Qu.:1.000    1st Qu.:2.000    1st Qu.: 4.000
## Mode  :character    Median :3.000    Median :3.000    Median : 5.000
##                                Mean    :2.812    Mean    :2.778    Mean    : 5.816
##                                3rd Qu.:4.000    3rd Qu.:4.000    3rd Qu.: 7.000
##                                Max.    :8.000    Max.    :9.000    Max.    :14.000
##      AQ2B      AQ3G      AQ3B      AQ4G
## Min.    : 0.000    Min.    : 2.000    Min.    : 0.000    Min.    : 3.00
## 1st Qu.: 4.000    1st Qu.: 6.000    1st Qu.: 6.000    1st Qu.: 9.00
## Median : 5.000    Median : 8.000    Median : 8.000    Median :12.00
## Mean    : 5.512    Mean    : 8.816    Mean    : 8.198    Mean    :12.07
## 3rd Qu.: 7.000    3rd Qu.:11.000    3rd Qu.:10.000    3rd Qu.:14.00
## Max.    :12.000    Max.    :21.000    Max.    :17.000    Max.    :25.00
##      AQ4B      Away.score      First.name      Surname
## Min.    : 2.00    Min.    : 22.00    Length:9108    Length:9108
## 1st Qu.: 8.00    1st Qu.: 66.00    Class :character    Class :character

```

```

## Median :11.00 Median : 81.00 Mode :character Mode :character
## Mean :11.01 Mean : 83.44
## 3rd Qu.:14.00 3rd Qu.: 98.00
## Max. :20.00 Max. :168.00
## ID Jumper.No. Playing.for Kicks
## Min. : 280 Min. : 1.00 Length:9108 Min. : 0.00
## 1st Qu.: 4184 1st Qu.: 9.00 Class :character 1st Qu.: 6.00
## Median :11791 Median :19.00 Mode :character Median : 9.00
## Mean : 9541 Mean :20.13 Mean : 9.33
## 3rd Qu.:12033 3rd Qu.:30.00 3rd Qu.:12.00
## Max. :12315 Max. :50.00 Max. :31.00
## Marks Handballs Goals Behinds
## Min. : 0 Min. : 0.000 Min. : 0.0000 Min. :0.000
## 1st Qu.: 2 1st Qu.: 4.000 1st Qu.: 0.0000 1st Qu.:0.000
## Median : 4 Median : 6.000 Median : 0.0000 Median :0.000
## Mean : 4 Mean : 7.155 Mean : 0.5718 Mean :0.406
## 3rd Qu.: 6 3rd Qu.:10.000 3rd Qu.: 1.0000 3rd Qu.:1.000
## Max. :19 Max. :29.000 Max. :11.0000 Max. :7.000
## Hit.Outs Tackles Rebounds Inside.50s
## Min. : 0.000 Min. : 0.000 Min. : 0.000 Min. : 0.000
## 1st Qu.: 0.000 1st Qu.: 1.000 1st Qu.: 0.000 1st Qu.: 1.000
## Median : 0.000 Median : 3.000 Median : 1.000 Median : 2.000
## Mean : 1.861 Mean : 3.015 Mean : 1.534 Mean : 2.285
## 3rd Qu.: 0.000 3rd Qu.: 4.000 3rd Qu.: 2.000 3rd Qu.: 3.000
## Max. :60.000 Max. :18.000 Max. :16.000 Max. :11.000
## Clearances Clangers Frees.For Frees.Against
## Min. : 0.000 Min. : 0.000 Min. :0.000 Min. :0.0000
## 1st Qu.: 0.000 1st Qu.: 1.000 1st Qu.:0.000 1st Qu.:0.0000
## Median : 1.000 Median : 2.000 Median :1.000 Median :1.0000
## Mean : 1.735 Mean : 1.991 Mean :0.759 Mean :0.7564
## 3rd Qu.: 3.000 3rd Qu.: 3.000 3rd Qu.:1.000 3rd Qu.:1.0000
## Max. :14.000 Max. :11.000 Max. :7.000 Max. :8.0000
## Brownlow.Votes Contested.Possessions Uncontested.Possessions
## Min. :0.0000 Min. : 0.000 Min. : 0.00
## 1st Qu.:0.0000 1st Qu.: 4.000 1st Qu.: 6.00
## Median :0.0000 Median : 6.000 Median :10.00
## Mean :0.1304 Mean : 6.246 Mean :10.11
## 3rd Qu.:0.0000 3rd Qu.: 8.000 3rd Qu.:13.00
## Max. :3.0000 Max. :29.000 Max. :33.00
## Contested.Marks Marks.Inside.50 One.Percenters Bounces
## Min. :0.0000 Min. : 0.0000 Min. : 0.000 Min. : 0.000
## 1st Qu.:0.0000 1st Qu.: 0.0000 1st Qu.: 1.000 1st Qu.: 0.000
## Median :0.0000 Median : 0.0000 Median : 2.000 Median : 0.000
## Mean :0.4375 Mean : 0.5056 Mean : 2.269 Mean : 0.446
## 3rd Qu.:1.0000 3rd Qu.: 1.0000 3rd Qu.: 3.000 3rd Qu.: 0.000
## Max. :8.0000 Max. :13.0000 Max. :17.000 Max. :12.000
## Goal.Assists Time.on.Ground.. Substitute Umpire.1
## Min. :0.0000 Min. : 1.00 Min. :0.0000 Length:9108
## 1st Qu.:0.0000 1st Qu.: 80.00 1st Qu.:0.0000 Class :character
## Median :0.0000 Median : 85.00 Median :0.0000 Mode :character
## Mean :0.3886 Mean : 81.81 Mean :0.1364
## 3rd Qu.:1.0000 3rd Qu.: 90.00 3rd Qu.:0.0000
## Max. :5.0000 Max. :100.00 Max. :2.0000
## Umpire.2 Umpire.3 Umpire.4 group_id

```

```

## Length:9108      Length:9108      Length:9108      Min.   :14382
## Class :character  Class :character  Class :character  1st Qu.:14433
## Mode  :character  Mode  :character  Mode  :character  Median :14485
##                                           Mean  :14485
##                                           3rd Qu.:14537
##                                           Max.   :14588
##
##      AF      countgames      Z_score
## Min.   : -2.00   Min.   : 1.00   Min.   : -2.57755
## 1st Qu.: 51.00   1st Qu.:14.00   1st Qu.: -0.69453
## Median : 69.00   Median :20.00   Median : -0.05502
## Mean   : 70.55   Mean   :17.86   Mean   : 0.00000
## 3rd Qu.: 89.00   3rd Qu.:22.00   3rd Qu.: 0.65555
## Max.   :190.00   Max.   :25.00   Max.   : 4.24393
##
## $`2015`
##      Season      Round      Date      Local.start.time
## Min.   :2015      Length:9064      Min.   :2015-04-02      Min.   :1240
## 1st Qu.:2015      Class :character      1st Qu.:2015-05-09      1st Qu.:1410
## Median :2015      Mode  :character      Median :2015-06-25      Median :1635
## Mean   :2015                                           Mean   :1623
## 3rd Qu.:2015                                           3rd Qu.:1920
## Max.   :2015                                           Max.   :1950
##      Venue      Attendance      Home.team      HQ1G
## Length:9064      Min.   : 4866      Length:9064      Min.   :0.00
## Class :character      1st Qu.:20813      Class :character      1st Qu.:2.00
## Mode  :character      Median :32282      Mode  :character      Median :3.00
##                                           Mean   :2.99
##                                           3rd Qu.:4.00
##                                           Max.   :8.00
##      HQ1B      HQ2G      HQ2B      HQ3G
## Min.   :0.000      Min.   : 0.000      Min.   : 0.000      Min.   : 2.00
## 1st Qu.:2.000      1st Qu.: 4.000      1st Qu.: 4.000      1st Qu.: 7.00
## Median :3.000      Median : 6.000      Median : 5.000      Median :10.00
## Mean   :2.655      Mean   : 6.223      Mean   : 5.408      Mean   : 9.66
## 3rd Qu.:4.000      3rd Qu.: 8.000      3rd Qu.: 7.000      3rd Qu.:12.00
## Max.   :7.000      Max.   :14.000      Max.   :17.000      Max.   :19.00
##      HQ3B      HQ4G      HQ4B      Home.score
## Min.   : 2.00      Min.   : 4.00      Min.   : 3.00      Min.   : 35.00
## 1st Qu.: 6.00      1st Qu.:10.00      1st Qu.: 9.00      1st Qu.: 69.00
## Median : 8.00      Median :13.00      Median :11.00      Median : 86.00
## Mean   : 8.35      Mean   :13.04      Mean   :11.22      Mean   : 89.48
## 3rd Qu.:10.00      3rd Qu.:16.00      3rd Qu.:13.00      3rd Qu.:112.00
## Max.   :21.00      Max.   :25.00      Max.   :24.00      Max.   :162.00
##      Away.team      AQ1G      AQ1B      AQ2G
## Length:9064      Min.   :0.000      Min.   :0.000      Min.   : 1.000
## Class :character      1st Qu.:2.000      1st Qu.:2.000      1st Qu.: 4.000
## Mode  :character      Median :3.000      Median :3.000      Median : 6.000
##                                           Mean   :3.146      Mean   :2.757      Mean   : 5.932
##                                           3rd Qu.:4.000      3rd Qu.:4.000      3rd Qu.: 8.000
##                                           Max.   :9.000      Max.   :6.000      Max.   :14.000
##      AQ2B      AQ3G      AQ3B      AQ4G
## Min.   : 0.000      Min.   : 2.000      Min.   : 0.000      Min.   : 4.00
## 1st Qu.: 4.000      1st Qu.: 7.000      1st Qu.: 6.000      1st Qu.: 9.00
## Median : 5.000      Median : 8.500      Median : 8.000      Median :11.00

```

## Mean : 5.544	Mean : 9.029	Mean : 8.189	Mean :12.08
## 3rd Qu.: 7.000	3rd Qu.:12.000	3rd Qu.:10.000	3rd Qu.:15.00
## Max. :13.000	Max. :20.000	Max. :16.000	Max. :27.00
## AQ4B	Away.score	First.name	Surname
## Min. : 2.00	Min. : 30.00	Length:9064	Length:9064
## 1st Qu.: 8.00	1st Qu.: 63.00	Class :character	Class :character
## Median :11.00	Median : 82.00	Mode :character	Mode :character
## Mean :10.78	Mean : 83.28		
## 3rd Qu.:13.00	3rd Qu.: 99.00		
## Max. :21.00	Max. :173.00		
## ID	Jumper.No.	Playing.for	Kicks
## Min. : 291	Min. : 1.00	Length:9064	Min. : 0.000
## 1st Qu.:11579	1st Qu.: 9.00	Class :character	1st Qu.: 6.000
## Median :11859	Median :19.00	Mode :character	Median : 9.000
## Mean :10078	Mean :20.13		Mean : 9.271
## 3rd Qu.:12143	3rd Qu.:30.00		3rd Qu.:12.000
## Max. :12400	Max. :50.00		Max. :27.000
## Marks	Handballs	Goals	Behinds
## Min. : 0.000	Min. : 0.000	Min. : 0.000	Min. :0.0000
## 1st Qu.: 2.000	1st Qu.: 4.000	1st Qu.: 0.000	1st Qu.:0.0000
## Median : 4.000	Median : 6.000	Median : 0.000	Median :0.0000
## Mean : 4.102	Mean : 7.258	Mean : 0.571	Mean :0.3901
## 3rd Qu.: 6.000	3rd Qu.:10.000	3rd Qu.: 1.000	3rd Qu.:1.0000
## Max. :15.000	Max. :32.000	Max. :10.000	Max. :6.0000
## Hit.Outs	Tackles	Rebounds	Inside.50s
## Min. : 0.000	Min. : 0.000	Min. : 0.000	Min. : 0.000
## 1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.: 0.000	1st Qu.: 1.000
## Median : 0.000	Median : 3.000	Median : 1.000	Median : 2.000
## Mean : 1.954	Mean : 2.983	Mean : 1.541	Mean : 2.291
## 3rd Qu.: 0.000	3rd Qu.: 4.000	3rd Qu.: 2.000	3rd Qu.: 3.000
## Max. :80.000	Max. :17.000	Max. :15.000	Max. :15.000
## Clearances	Clangers	Frees.For	Frees.Against
## Min. : 0.000	Min. : 0.000	Min. :0.0000	Min. :0.000
## 1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.:0.0000	1st Qu.:0.000
## Median : 1.000	Median : 2.000	Median :1.0000	Median :1.000
## Mean : 1.764	Mean : 2.107	Mean :0.8246	Mean :0.823
## 3rd Qu.: 3.000	3rd Qu.: 3.000	3rd Qu.:1.0000	3rd Qu.:1.000
## Max. :15.000	Max. :11.000	Max. :8.0000	Max. :7.000
## Brownlow.Votes	Contested.Possessions	Uncontested.Possessions	
## Min. :0.0000	Min. : 0.000	Min. : 0.00	
## 1st Qu.:0.0000	1st Qu.: 4.000	1st Qu.: 6.00	
## Median :0.0000	Median : 6.000	Median :10.00	
## Mean :0.1304	Mean : 6.193	Mean :10.29	
## 3rd Qu.:0.0000	3rd Qu.: 8.000	3rd Qu.:14.00	
## Max. :3.0000	Max. :29.000	Max. :35.00	
## Contested.Marks	Marks.Inside.50	One.Percenters	Bounces
## Min. :0.0000	Min. :0.0000	Min. : 0.000	Min. : 0.00
## 1st Qu.:0.0000	1st Qu.:0.0000	1st Qu.: 0.000	1st Qu.: 0.00
## Median :0.0000	Median :0.0000	Median : 1.000	Median : 0.00
## Mean :0.4867	Mean :0.5318	Mean : 1.961	Mean : 0.35
## 3rd Qu.:1.0000	3rd Qu.:1.0000	3rd Qu.: 3.000	3rd Qu.: 0.00
## Max. :6.0000	Max. :9.0000	Max. :16.000	Max. :14.00
## Goal.Assists	Time.on.Ground..	Substitute	Umpire.1
## Min. :0.0000	Min. : 1.00	Min. :0.0000	Length:9064


```

## 1st Qu.:0.0000 1st Qu.: 80.00 1st Qu.:0.0000 Class :character
## Median :0.0000 Median : 85.00 Median :0.0000 Mode :character
## Mean :0.3899 Mean : 81.81 Mean :0.1364
## 3rd Qu.:1.0000 3rd Qu.: 90.00 3rd Qu.:0.0000
## Max. :5.0000 Max. :100.00 Max. :2.0000
## Umpire.2 Umpire.3 Umpire.4 group_id
## Length:9064 Length:9064 Length:9064 Min. :14589
## Class :character Class :character Class :character 1st Qu.:14640
## Mode :character Mode :character Mode :character Median :14692
## Mean :14692
## 3rd Qu.:14743
## Max. :14794
## AF countgames Z_score
## Min. : -3.0 Min. : 1.00 Min. : -2.62417
## 1st Qu.: 51.0 1st Qu.:14.00 1st Qu.: -0.70132
## Median : 70.0 Median :20.00 Median : -0.02476
## Mean : 70.7 Mean :17.72 Mean : 0.00000
## 3rd Qu.: 90.0 3rd Qu.:22.00 3rd Qu.: 0.68741
## Max. :176.0 Max. :26.00 Max. : 3.74972
##
## $`2016`
## Season Round Date Local.start.time
## Min. :2016 Length:9108 Min. :2016-03-24 Min. :1310
## 1st Qu.:2016 Class :character 1st Qu.:2016-05-01 1st Qu.:1410
## Median :2016 Mode :character Median :2016-06-11 Median :1635
## Mean :2016 Mean :2016-06-14 Mean :1629
## 3rd Qu.:2016 3rd Qu.:2016-07-30 3rd Qu.:1920
## Max. :2016 Max. :2016-10-01 Max. :1950
## Venue Attendance Home.team HQ1G
## Length:9108 Min. : 4368 Length:9108 Min. :0.000
## Class :character 1st Qu.:21541 Class :character 1st Qu.:2.000
## Mode :character Median :32401 Mode :character Median :3.000
## Mean :33188 Mean :3.565
## 3rd Qu.:42723 3rd Qu.:5.000
## Max. :99981 Max. :9.000
## HQ1B HQ2G HQ2B HQ3G
## Min. :0.00 Min. : 0.000 Min. : 0.000 Min. : 3.00
## 1st Qu.:2.00 1st Qu.: 5.000 1st Qu.: 4.000 1st Qu.: 7.00
## Median :3.00 Median : 6.000 Median : 6.000 Median :10.00
## Mean :3.01 Mean : 6.865 Mean : 5.913 Mean :10.28
## 3rd Qu.:4.00 3rd Qu.: 9.000 3rd Qu.: 8.000 3rd Qu.:12.00
## Max. :9.00 Max. :14.000 Max. :15.000 Max. :22.00
## HQ3B HQ4G HQ4B Home.score
## Min. : 2.000 Min. : 5.00 Min. : 3.00 Min. : 36.00
## 1st Qu.: 7.000 1st Qu.:11.00 1st Qu.: 9.00 1st Qu.: 76.00
## Median : 9.000 Median :14.00 Median :11.00 Median : 92.00
## Mean : 8.879 Mean :13.75 Mean :11.78 Mean : 94.27
## 3rd Qu.:11.000 3rd Qu.:16.00 3rd Qu.:14.00 3rd Qu.:110.00
## Max. :21.000 Max. :27.00 Max. :28.00 Max. :177.00
## Away.team AQ1G AQ1B AQ2G
## Length:9108 Min. :0.000 Min. :0.000 Min. : 0.000
## Class :character 1st Qu.:2.000 1st Qu.:2.000 1st Qu.: 4.000
## Mode :character Median :3.000 Median :3.000 Median : 6.000
## Mean :2.739 Mean :2.787 Mean : 5.928

```

##		3rd Qu.:4.000	3rd Qu.:4.000	3rd Qu.: 8.000
##		Max. :7.000	Max. :9.000	Max. :13.000
##	AQ2B	AQ3G	AQ3B	AQ4G
##	Min. : 0.000	Min. : 2.000	Min. : 1.000	Min. : 3.00
##	1st Qu.: 4.000	1st Qu.: 6.000	1st Qu.: 6.000	1st Qu.: 9.00
##	Median : 5.000	Median : 9.000	Median : 8.000	Median :11.00
##	Mean : 5.314	Mean : 9.024	Mean : 8.092	Mean :12.03
##	3rd Qu.: 7.000	3rd Qu.:11.000	3rd Qu.:10.000	3rd Qu.:15.00
##	Max. :17.000	Max. :20.000	Max. :22.000	Max. :25.00
##	AQ4B	Away.score	First.name	Surname
##	Min. : 2.0	Min. : 23.00	Length:9108	Length:9108
##	1st Qu.: 8.0	1st Qu.: 61.00	Class :character	Class :character
##	Median :11.0	Median : 79.00	Mode :character	Mode :character
##	Mean :10.9	Mean : 83.07		
##	3rd Qu.:13.0	3rd Qu.:100.00		
##	Max. :23.0	Max. :173.00		
##	ID	Jumper.No.	Playing.for	Kicks
##	Min. : 468	Min. : 1.00	Length:9108	Min. : 0.000
##	1st Qu.:11654	1st Qu.: 9.00	Class :character	1st Qu.: 6.000
##	Median :11953	Median :18.00	Mode :character	Median : 9.000
##	Mean :10644	Mean :20.18		Mean : 9.336
##	3rd Qu.:12234	3rd Qu.:29.00		3rd Qu.:12.000
##	Max. :12486	Max. :56.00		Max. :36.000
##	Marks	Handballs	Goals	Behinds
##	Min. : 0.000	Min. : 0.000	Min. :0.0000	Min. :0.0000
##	1st Qu.: 2.000	1st Qu.: 4.000	1st Qu.:0.0000	1st Qu.:0.0000
##	Median : 4.000	Median : 7.000	Median :0.0000	Median :0.0000
##	Mean : 4.025	Mean : 7.729	Mean :0.5859	Mean :0.4155
##	3rd Qu.: 5.000	3rd Qu.:10.000	3rd Qu.:1.0000	3rd Qu.:1.0000
##	Max. :21.000	Max. :31.000	Max. :9.0000	Max. :6.0000
##	Hit.Outs	Tackles	Rebounds	Inside.50s
##	Min. : 0.000	Min. : 0.000	Min. : 0.0	Min. : 0.000
##	1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.: 0.0	1st Qu.: 1.000
##	Median : 0.000	Median : 3.000	Median : 1.0	Median : 2.000
##	Mean : 1.803	Mean : 3.173	Mean : 1.6	Mean : 2.373
##	3rd Qu.: 0.000	3rd Qu.: 4.000	3rd Qu.: 2.0	3rd Qu.: 3.000
##	Max. :65.000	Max. :19.000	Max. :15.0	Max. :16.000
##	Clearances	Clangers	Frees.For	Frees.Against
##	Min. : 0.000	Min. : 0.000	Min. :0.0000	Min. :0.0000
##	1st Qu.: 0.000	1st Qu.: 1.000	1st Qu.:0.0000	1st Qu.:0.0000
##	Median : 1.000	Median : 2.000	Median :1.0000	Median :1.0000
##	Mean : 1.668	Mean : 2.299	Mean :0.8536	Mean :0.8529
##	3rd Qu.: 2.000	3rd Qu.: 3.000	3rd Qu.:1.0000	3rd Qu.:1.0000
##	Max. :15.000	Max. :12.000	Max. :8.0000	Max. :8.0000
##	Brownlow.Votes	Contested.Possessions	Uncontested.Possessions	
##	Min. :0.0000	Min. : 0.000	Min. : 0.00	
##	1st Qu.:0.0000	1st Qu.: 4.000	1st Qu.: 7.00	
##	Median :0.0000	Median : 6.000	Median :10.00	
##	Mean :0.1304	Mean : 6.481	Mean :10.58	
##	3rd Qu.:0.0000	3rd Qu.: 8.000	3rd Qu.:14.00	
##	Max. :3.0000	Max. :26.000	Max. :35.00	
##	Contested.Marks	Marks.Inside.50	One.Percenters	Bounces
##	Min. :0.00	Min. : 0.0000	Min. : 0.000	Min. : 0.0000
##	1st Qu.:0.00	1st Qu.: 0.0000	1st Qu.: 1.000	1st Qu.: 0.0000

```

## Median :0.00      Median : 0.0000      Median : 1.000      Median : 0.0000
## Mean   :0.52      Mean   : 0.5459      Mean   : 2.185      Mean   : 0.2981
## 3rd Qu.:1.00      3rd Qu.: 1.0000      3rd Qu.: 3.000      3rd Qu.: 0.0000
## Max.   :8.00      Max.   :12.0000      Max.   :20.000      Max.   :10.0000
## Goal.Assists      Time.on.Ground..      Substitute      Umpire.1
## Min.   :0.0000      Min.   : 1.00      Min.   :0      Length:9108
## 1st Qu.:0.0000      1st Qu.: 77.00      1st Qu.:0      Class :character
## Median :0.0000      Median : 83.00      Median :0      Mode  :character
## Mean   :0.4032      Mean   : 81.76      Mean   :0
## 3rd Qu.:1.0000      3rd Qu.: 88.00      3rd Qu.:0
## Max.   :6.0000      Max.   :100.00      Max.   :0
## Umpire.2           Umpire.3           Umpire.4           group_id
## Length:9108        Length:9108        Length:9108        Min.   :14795
## Class :character    Class :character    Class :character    1st Qu.:14846
## Mode  :character    Mode  :character    Mode  :character    Median :14898
##                                     Mean   :14898
##                                     3rd Qu.:14950
##                                     Max.   :15001
## AF                  countgames          Z_score
## Min.   : 0.00      Min.   : 1.00      Min.   : -2.72854
## 1st Qu.: 53.00      1st Qu.:15.00      1st Qu.: -0.72738
## Median : 70.00      Median :20.00      Median : -0.08549
## Mean   : 72.26      Mean   :18.13      Mean   : 0.00000
## 3rd Qu.: 90.00      3rd Qu.:22.00      3rd Qu.: 0.66966
## Max.   :200.00      Max.   :26.00      Max.   : 4.82301
##
## $`2017`
## Season            Round              Date              Local.start.time
## Min.   :2017      Length:9108        Min.   :2017-03-23      Min.   :1310
## 1st Qu.:2017      Class :character    1st Qu.:2017-04-30      1st Qu.:1410
## Median :2017      Mode  :character    Median :2017-06-16      Median :1635
## Mean   :2017                                     Mean  :2017-06-14      Mean  :1639
## 3rd Qu.:2017                                     3rd Qu.:2017-07-29      3rd Qu.:1920
## Max.   :2017                                     Max.   :2017-09-30      Max.   :1950
##
## Venue              Attendance          Home.team          HQ1G
## Length:9108        Min.   : 5072      Length:9108        Min.   : 0.000
## Class :character    1st Qu.: 21997      Class :character    1st Qu.: 2.000
## Mode  :character    Median : 33884      Mode  :character    Median : 3.000
##                                     Mean   : 35207      Mean   : 3.314
##                                     3rd Qu.: 43993      3rd Qu.: 4.000
##                                     Max.   :100021      Max.   :10.000
##
## HQ1B              HQ2G              HQ2B              HQ3G
## Min.   :0.000      Min.   : 1.000      Min.   : 1.000      Min.   : 3.000
## 1st Qu.:2.000      1st Qu.: 5.000      1st Qu.: 4.000      1st Qu.: 8.000
## Median :3.000      Median : 6.000      Median : 6.000      Median : 9.000
## Mean   :2.903      Mean   : 6.546      Mean   : 6.048      Mean   : 9.952
## 3rd Qu.:4.000      3rd Qu.: 8.000      3rd Qu.: 7.000      3rd Qu.:12.000
## Max.   :9.000      Max.   :15.000      Max.   :18.000      Max.   :19.000
##
## HQ3B              HQ4G              HQ4B              Home.score
## Min.   : 1.000      Min.   : 4.00      Min.   : 3.00      Min.   : 38.00
## 1st Qu.: 7.000      1st Qu.:11.00      1st Qu.:10.00      1st Qu.: 77.00

```

```

## Median : 9.000   Median :13.00   Median :12.00   Median : 89.00
## Mean   : 8.937   Mean    :13.49   Mean    :11.98   Mean    : 92.93
## 3rd Qu.:11.000   3rd Qu.:16.00   3rd Qu.:14.00   3rd Qu.:110.00
## Max.   :21.000   Max.    :24.00   Max.    :23.00   Max.    :160.00
##
## Away.team      AQ1G      AQ1B      AQ2G
## Length:9108    Min.    :0.000   Min.    :0.000   Min.    : 0.000
## Class :character 1st Qu.:2.000   1st Qu.:2.000   1st Qu.: 4.000
## Mode  :character Median :3.000   Median :3.000   Median : 6.000
##                      Mean   :3.005   Mean    :2.758   Mean    : 5.932
##                      3rd Qu.:4.000   3rd Qu.:4.000   3rd Qu.: 7.000
##                      Max.    :7.000   Max.    :8.000   Max.    :15.000
##
## AQ2B      AQ3G      AQ3B      AQ4G
## Min.    : 1.000   Min.    : 2.000   Min.    : 1.000   Min.    : 3.00
## 1st Qu.: 3.000   1st Qu.: 7.000   1st Qu.: 6.000   1st Qu.:10.00
## Median : 5.000   Median : 9.000   Median : 8.000   Median :12.00
## Mean    : 5.585   Mean    : 9.246   Mean    : 8.449   Mean    :12.35
## 3rd Qu.: 7.000   3rd Qu.:11.000   3rd Qu.:11.000   3rd Qu.:15.00
## Max.    :15.000   Max.    :20.000   Max.    :17.000   Max.    :25.00
##
## AQ4B      Away.score  First.name  Surname
## Min.    : 2.00   Min.    : 20.0   Length:9108   Length:9108
## 1st Qu.: 9.00   1st Qu.: 67.0   Class :character  Class :character
## Median :10.00   Median : 83.0   Mode  :character  Mode  :character
## Mean    :10.99   Mean    : 85.1
## 3rd Qu.:14.00   3rd Qu.:100.0
## Max.    :19.00   Max.    :163.0
##
## ID      Jumper.No.  Playing.for  Kicks
## Min.    : 468   Min.    : 1.00   Length:9108   Min.    : 0.000
## 1st Qu.:11746   1st Qu.: 9.00   Class :character  1st Qu.: 6.000
## Median :12065   Median :18.00   Mode  :character  Median : 9.000
## Mean    :11153   Mean    :19.69
## 3rd Qu.:12331   3rd Qu.:29.00
## Max.    :12580   Max.    :67.00
##                      3rd Qu.:12.000
##                      Max.    :33.000
##
## Marks      Handballs      Goals      Behinds
## Min.    : 0.000   Min.    : 0.000   Min.    : 0.0000   Min.    :0.0000
## 1st Qu.: 2.000   1st Qu.: 4.000   1st Qu.: 0.0000   1st Qu.:0.0000
## Median : 4.000   Median : 7.000   Median : 0.0000   Median :0.0000
## Mean    : 4.239   Mean    : 7.779   Mean    : 0.5879   Mean    :0.4306
## 3rd Qu.: 6.000   3rd Qu.:10.000   3rd Qu.: 1.0000   3rd Qu.:1.0000
## Max.    :16.000   Max.    :30.000   Max.    :10.0000   Max.    :7.0000
##
## Hit.Outs      Tackles      Rebounds      Inside.50s
## Min.    : 0.000   Min.    : 0.000   Min.    : 0.000   Min.    : 0.000
## 1st Qu.: 0.000   1st Qu.: 1.000   1st Qu.: 0.000   1st Qu.: 1.000
## Median : 0.000   Median : 3.000   Median : 1.000   Median : 2.000
## Mean    : 1.812   Mean    : 3.114   Mean    : 1.617   Mean    : 2.377
## 3rd Qu.: 0.000   3rd Qu.: 4.000   3rd Qu.: 2.000   3rd Qu.: 3.000
## Max.    :74.000   Max.    :18.000   Max.    :13.000   Max.    :15.000
##
## Clearances      Clangers      Frees.For      Frees.Against

```

```

## Min. : 0.000 Min. : 0.00 Min. :0.0000 Min. :0.0000
## 1st Qu.: 0.000 1st Qu.: 1.00 1st Qu.:0.0000 1st Qu.:0.0000
## Median : 1.000 Median : 2.00 Median :1.0000 Median :1.0000
## Mean : 1.673 Mean : 2.44 Mean :0.8551 Mean :0.8549
## 3rd Qu.: 2.000 3rd Qu.: 3.00 3rd Qu.:1.0000 3rd Qu.:1.0000
## Max. :18.000 Max. :13.00 Max. :8.0000 Max. :7.0000
##
## Brownlow.Votes Contested.Possessions Uncontested.Possessions
## Min. :0.0000 Min. : 0.000 Min. : 0.00
## 1st Qu.:0.0000 1st Qu.: 4.000 1st Qu.: 7.00
## Median :0.0000 Median : 6.000 Median :10.00
## Mean :0.1304 Mean : 6.482 Mean :10.87
## 3rd Qu.:0.0000 3rd Qu.: 8.000 3rd Qu.:14.00
## Max. :3.0000 Max. :27.000 Max. :35.00
##
## Contested.Marks Marks.Inside.50 One.Percenters Bounces
## Min. :0.0000 Min. :0.0000 Min. : 0.000 Min. : 0.0000
## 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.: 1.000 1st Qu.: 0.0000
## Median :0.0000 Median :0.0000 Median : 1.000 Median : 0.0000
## Mean :0.5076 Mean :0.5486 Mean : 2.126 Mean : 0.3171
## 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.: 3.000 3rd Qu.: 0.0000
## Max. :8.0000 Max. :8.0000 Max. :22.000 Max. :12.0000
##
## Goal.Assists Time.on.Ground.. Substitute Umpire.1
## Min. :0.0000 Min. : 1.00 Min. : NA Length:9108
## 1st Qu.:0.0000 1st Qu.: 77.00 1st Qu.: NA Class :character
## Median :0.0000 Median : 83.00 Median : NA Mode :character
## Mean :0.4038 Mean : 81.81 Mean : NaN
## 3rd Qu.:1.0000 3rd Qu.: 88.00 3rd Qu.: NA
## Max. :5.0000 Max. :100.00 Max. : NA
## NA's :9108
## Umpire.2 Umpire.3 Umpire.4 group_id
## Length:9108 Length:9108 Length:9108 Min. : NA
## Class :character Class :character Class :character 1st Qu.: NA
## Mode :character Mode :character Mode :character Median : NA
## Mean :NaN
## 3rd Qu.: NA
## Max. : NA
## NA's :9108
## AF countgames Z_score
## Min. : 0.00 Min. : 1.00 Min. : -2.76377
## 1st Qu.: 55.00 1st Qu.:15.00 1st Qu.: -0.69771
## Median : 72.00 Median :20.00 Median : -0.05911
## Mean : 73.57 Mean :18.08 Mean : 0.00000
## 3rd Qu.: 91.00 3rd Qu.:22.00 3rd Qu.: 0.65461
## Max. :194.00 Max. :25.00 Max. : 4.52378
##
##
## $`2018`
## Season Round Date Local.start.time
## Min. :2018 Length:9108 Min. :2018-03-22 Min. :1310
## 1st Qu.:2018 Class :character 1st Qu.:2018-04-29 1st Qu.:1410
## Median :2018 Mode :character Median :2018-06-10 Median :1610
## Mean :2018 Mean :2018-06-13 Mean :1633

```

```

## 3rd Qu.:2018          3rd Qu.:2018-07-28  3rd Qu.:1925
## Max. :2018          Max. :2018-09-29  Max. :1950
##
## Venue Attendance Home.team HQ1G
## Length:9108 Min. : 3722 Length:9108 Min. :0.000
## Class :character 1st Qu.: 21433 Class :character 1st Qu.:2.000
## Mode :character Median : 33994 Mode :character Median :3.000
## Mean : 36687 Mean :3.077
## 3rd Qu.: 46423 3rd Qu.:4.000
## Max. :100022 Max. :9.000
##
## HQ1B HQ2G HQ2B HQ3G
## Min. :0.000 Min. : 0.000 Min. : 0.000 Min. : 2.000
## 1st Qu.:2.000 1st Qu.: 4.000 1st Qu.: 4.000 1st Qu.: 7.000
## Median :3.000 Median : 6.000 Median : 6.000 Median : 9.000
## Mean :2.787 Mean : 6.068 Mean : 5.676 Mean : 9.367
## 3rd Qu.:4.000 3rd Qu.: 7.000 3rd Qu.: 7.000 3rd Qu.:12.000
## Max. :9.000 Max. :14.000 Max. :15.000 Max. :18.000
##
## HQ3B HQ4G HQ4B Home.score
## Min. : 2.000 Min. : 4.0 Min. : 4.0 Min. : 34.00
## 1st Qu.: 6.000 1st Qu.: 9.0 1st Qu.: 9.0 1st Qu.: 68.00
## Median : 8.000 Median :12.0 Median :11.0 Median : 85.00
## Mean : 8.691 Mean :12.5 Mean :11.6 Mean : 86.61
## 3rd Qu.:11.000 3rd Qu.:15.0 3rd Qu.:14.0 3rd Qu.:104.00
## Max. :18.000 Max. :24.0 Max. :24.0 Max. :158.00
##
## Away.team AQ1G AQ1B AQ2G
## Length:9108 Min. :0.000 Min. :0.000 Min. : 0.000
## Class :character 1st Qu.:2.000 1st Qu.:1.000 1st Qu.: 4.000
## Mode :character Median :3.000 Median :3.000 Median : 5.000
## Mean :2.821 Mean :2.725 Mean : 5.589
## 3rd Qu.:4.000 3rd Qu.:4.000 3rd Qu.: 7.000
## Max. :9.000 Max. :9.000 Max. :14.000
##
## AQ2B AQ3G AQ3B AQ4G
## Min. : 0.000 Min. : 1.000 Min. : 1.000 Min. : 2.0
## 1st Qu.: 3.000 1st Qu.: 6.000 1st Qu.: 6.000 1st Qu.: 9.0
## Median : 5.000 Median : 8.000 Median : 8.000 Median :12.0
## Mean : 5.348 Mean : 8.531 Mean : 7.986 Mean :11.5
## 3rd Qu.: 7.000 3rd Qu.:11.000 3rd Qu.:10.000 3rd Qu.:14.0
## Max. :12.000 Max. :20.000 Max. :17.000 Max. :26.0
##
## AQ4B Away.score First.name Surname
## Min. : 1.00 Min. : 17.00 Length:9108 Length:9108
## 1st Qu.: 8.00 1st Qu.: 61.00 Class :character Class :character
## Median :11.00 Median : 79.00 Mode :character Mode :character
## Mean :10.53 Mean : 79.55
## 3rd Qu.:13.00 3rd Qu.: 95.00
## Max. :23.00 Max. :165.00
##
## ID Jumper.No. Playing.for Kicks
## Min. : 0 Min. : 1.00 Length:9108 Min. : 0.000
## 1st Qu.:11833 1st Qu.: 9.00 Class :character 1st Qu.: 6.000

```

```

## Median :12174   Median :18.00   Mode  :character   Median : 9.000
## Mean   :11557   Mean   :19.69       Mean   : 9.657
## 3rd Qu.:12418   3rd Qu.:29.00       3rd Qu.:12.000
## Max.   :12676   Max.   :50.00       Max.   :30.000
##
##      Marks      Handballs      Goals      Behinds
## Min.   : 0.000   Min.   : 0.000   Min.   : 0.0000   Min.   :0.0000
## 1st Qu.: 2.000   1st Qu.: 4.000   1st Qu.: 0.0000   1st Qu.:0.0000
## Median : 4.000   Median : 7.000   Median : 0.0000   Median :0.0000
## Mean   : 4.094   Mean   : 7.331   Mean   : 0.5456   Mean   :0.4108
## 3rd Qu.: 6.000   3rd Qu.:10.000   3rd Qu.: 1.0000   3rd Qu.:1.0000
## Max.   :16.000   Max.   :35.000   Max.   :10.0000   Max.   :6.0000
##
##      Hit.Outs      Tackles      Rebounds      Inside.50s
## Min.   : 0.000   Min.   : 0.000   Min.   : 0.00   Min.   : 0.000
## 1st Qu.: 0.000   1st Qu.: 1.000   1st Qu.: 0.00   1st Qu.: 1.000
## Median : 0.000   Median : 3.000   Median : 1.00   Median : 2.000
## Mean   : 1.768   Mean   : 2.948   Mean   : 1.68   Mean   : 2.392
## 3rd Qu.: 0.000   3rd Qu.: 4.000   3rd Qu.: 3.00   3rd Qu.: 3.000
## Max.   :66.000   Max.   :17.000   Max.   :13.00   Max.   :16.000
##
##      Clearances      Clangers      Frees.For      Frees.Against
## Min.   : 0.000   Min.   : 0.000   Min.   :0.0000   Min.   :0.000
## 1st Qu.: 0.000   1st Qu.: 1.000   1st Qu.:0.0000   1st Qu.:0.000
## Median : 1.000   Median : 2.000   Median :1.0000   Median :1.000
## Mean   : 1.667   Mean   : 2.537   Mean   :0.9332   Mean   :0.933
## 3rd Qu.: 3.000   3rd Qu.: 4.000   3rd Qu.:1.0000   3rd Qu.:1.000
## Max.   :17.000   Max.   :13.000   Max.   :9.0000   Max.   :7.000
##
##      Brownlow.Votes      Contested.Possessions      Uncontested.Possessions
## Min.   :0.00000   Min.   : 0.000   Min.   : 0.0
## 1st Qu.:0.00000   1st Qu.: 4.000   1st Qu.: 7.0
## Median :0.00000   Median : 6.000   Median :10.0
## Mean   :0.02372   Mean   : 6.613   Mean   :10.4
## 3rd Qu.:0.00000   3rd Qu.: 9.000   3rd Qu.:14.0
## Max.   :3.00000   Max.   :32.000   Max.   :35.0
##
##      Contested.Marks      Marks.Inside.50      One.Percenters      Bounces
## Min.   :0.000   Min.   : 0.0000   Min.   : 0.000   Min.   : 0.0000
## 1st Qu.:0.000   1st Qu.: 0.0000   1st Qu.: 1.000   1st Qu.: 0.0000
## Median :0.000   Median : 0.0000   Median : 2.000   Median : 0.0000
## Mean   :0.496   Mean   : 0.5064   Mean   : 2.302   Mean   : 0.2746
## 3rd Qu.:1.000   3rd Qu.: 1.0000   3rd Qu.: 3.000   3rd Qu.: 0.0000
## Max.   :8.000   Max.   :12.0000   Max.   :25.000   Max.   :12.0000
##
##      Goal.Assists      Time.on.Ground..      Substitute      Umpire.1
## Min.   :0.000   Min.   : 2.0   Min.   : NA   Length:9108
## 1st Qu.:0.000   1st Qu.: 78.0   1st Qu.: NA   Class :character
## Median :0.000   Median : 83.0   Median : NA   Mode  :character
## Mean   :0.374   Mean   : 81.8   Mean   :NaN
## 3rd Qu.:1.000   3rd Qu.: 88.0   3rd Qu.: NA
## Max.   :5.000   Max.   :100.0   Max.   : NA
##                                     NA's   :9108
##      Umpire.2      Umpire.3      Umpire.4      group_id

```

```
## Length:9108      Length:9108      Length:9108      Min.   : NA
## Class :character  Class :character  Class :character  1st Qu.: NA
## Mode  :character  Mode  :character  Mode  :character  Median : NA
##                                                         Mean  :NaN
##                                                         3rd Qu.: NA
##                                                         Max.   : NA
##                                                         NA's   :9108
##      AF      countgames      Z_score
## Min.   : -3.00   Min.   : 1.00   Min.   : -2.78448
## 1st Qu.: 52.00   1st Qu.:14.00   1st Qu.: -0.72310
## Median : 69.00   Median :20.00   Median : -0.08595
## Mean   : 71.29   Mean   :17.87   Mean   : 0.00000
## 3rd Qu.: 89.00   3rd Qu.:22.00   3rd Qu.: 0.66364
## Max.   :195.00   Max.   :26.00   Max.   : 4.63648
##
```

Then the last thing is to filter out the players who didn't play more than 10 games in a season and to find each players meanZ_score by year.

```
df%>%
  filter(Season>1986 & Time.on.Ground..> 60)%>%
  group_by(Season, ID)%>%
  mutate(countgames=n())%>%
  group_by(Season)%>%
  mutate(Z_score=(AF-mean(AF))/sd(AF))%>%
  group_by(Season, ID, First.name, Surname)%>%
  filter(countgames>10)%>%
  summarise(meanZ_score=mean(Z_score))%>%
  arrange(desc(meanZ_score))
```

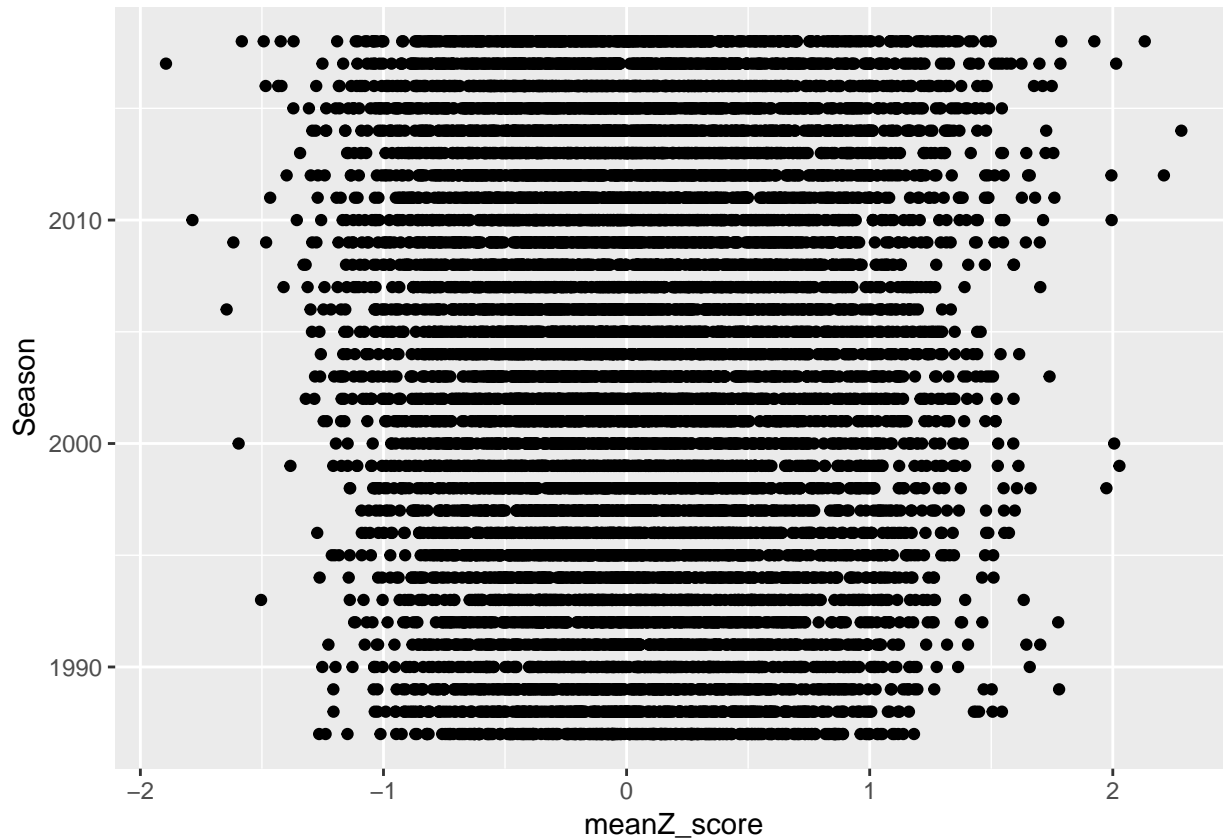
```
## # A tibble: 5,792 x 5
## # Groups:   Season, ID, First.name [5,792]
##   Season    ID First.name Surname meanZ_score
##   <dbl> <dbl> <chr>      <chr>      <dbl>
## 1  2014  11787 Tom        Rockliff      2.32
## 2  2012  1460 Dane        Swan         2.25
## 3  2018  12196 Tom        Mitchell     2.14
## 4  2016  11787 Tom        Rockliff     2.13
## 5  2018  12166 Jack        Macrae       2.10
## 6  2017  12196 Tom        Mitchell     2.02
## 7  2012  1105 Gary        Ablett       2.01
## 8  2010  1460 Dane        Swan         1.99
## 9  2014  1105 Gary        Ablett       1.87
## 10 2018  12217 Brodie      Grundy       1.79
## # ... with 5,782 more rows
```

But this would probably looks best as a graph as noted earlier.

```
df%>%
  filter(Season>1986)%>%
  group_by(Season, ID)%>%
  mutate(countgames=n())%>%
  group_by(Season)%>%
  mutate(Z_score=(AF-mean(AF))/sd(AF))%>%
  group_by(Season, ID, First.name, Surname)%>%
  filter(countgames>10)%>%
```

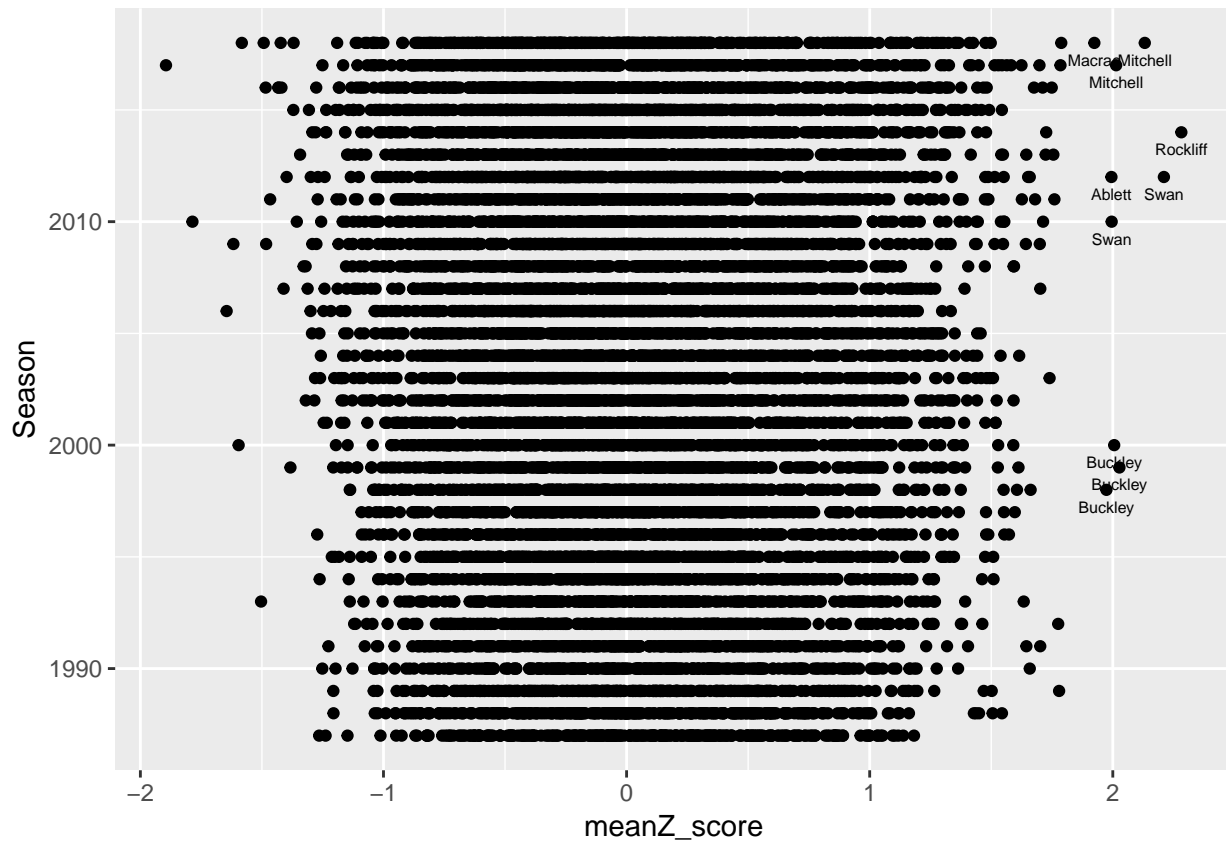


```
summarise(meanZ_score=mean(Z_score))%>%
ggplot(aes(x=meanZ_score, y=Season))+geom_point()
```



Then you probably would want to label our top 10 list so lets do that.

```
df%>%
  filter(Season>1986)%>%
  group_by(Season, ID)%>%
  mutate(countgames=n())%>%
  group_by(Season)%>%
  mutate(Z_score=(AF-mean(AF))/sd(AF))%>%
  group_by(Season, ID, First.name, Surname)%>%
  filter(countgames>10)%>%
  summarise(meanZ_score=mean(Z_score))%>%
  ggplot(aes(x=meanZ_score, y=Season))+
  geom_point()+
  geom_text(aes(label=ifelse(meanZ_score>1.9, as.character(Surname),""), vjust=2, size=2))
```



So what we can see here is that Nathan Buckley in his day, had some of the best fantasy seasons of AFL that we have statistics for. In fact, he has 3 out of the top 10 all time fantasy seasons.

It's just a shame that fantasy wasn't around back when he was around.