

Searching for Similarity: Classification

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First we have to unzip the archive (they are large data sets nearly 100k games). Then we will save them into data frames.

```
library(pvclust)
library(flexclust)

## Loading required package: grid
## Loading required package: lattice
## Loading required package: modeltools
## Loading required package: stats4
library(fpc)
library(cluster)

win_stats_df <- read.csv((unz("League_Data/league_korea_high_elo_team_stats.zip", "win_team_stats.csv"))
lose_stats_df <- read.csv((unz("League_Data/league_korea_high_elo_team_stats.zip", "lose_team_stats.csv"))

str(win_stats_df)

## 'data.frame': 90500 obs. of 31 variables:
## $ win_kills1 : num 10 3 7 11 0 7 9 8 18 4 ...
## $ win_kills2 : num 4 7 3 4 4 1 10 10 5 2 ...
## $ win_kills3 : num 4 0 5 7 2 11 9 5 2 2 ...
## $ win_kills4 : num 6 7 9 2 11 10 9 10 2 6 ...
## $ win_kills5 : num 7 2 4 3 8 8 2 0 11 4 ...
## $ win_deaths1 : num 4 5 5 2 1 3 2 5 2 3 ...
## $ win_deaths2 : num 1 0 1 2 4 0 2 5 6 0 ...
## $ win_deaths3 : num 4 0 2 2 4 3 3 4 8 1 ...
## $ win_deaths4 : num 4 0 1 3 3 6 1 7 4 0 ...
## $ win_deaths5 : num 2 3 2 4 4 5 5 6 8 1 ...
## $ win_totalDamageDealtToChampions1: num 17898 16662 16241 12111 10900 ...
## $ win_totalDamageDealtToChampions2: num 15800 11674 7572 5510 11362 ...
## $ win_totalDamageDealtToChampions3: num 10786 7498 10024 8440 14494 ...
## $ win_totalDamageDealtToChampions4: num 16964 13016 15115 5373 27391 ...
## $ win_totalDamageDealtToChampions5: num 11568 11393 12395 11038 22399 ...
## $ win_goldEarned1 : num 9802 8452 9029 10175 7217 ...
## $ win_goldEarned2 : num 9203 9069 6921 5552 10497 ...
## $ win_goldEarned3 : num 11127 6023 8331 7439 10323 ...
## $ win_goldEarned4 : num 9286 9868 11860 5873 13499 ...
## $ win_goldEarned5 : num 10414 7660 8589 7033 12720 ...
## $ win_visionScore1 : num 28 14 11 17 42 41 19 23 72 9 ...
## $ win_visionScore2 : num 16 27 35 25 38 41 46 55 50 21 ...
## $ win_visionScore3 : num 23 46 25 17 30 21 25 47 29 13 ...
## $ win_visionScore4 : num 17 16 15 9 18 39 31 25 80 19 ...
```

```

## $ win_visionScore5 : num 36 22 21 19 26 19 86 70 22 10 ...
## $ win_totalTimeCrowdControlDealt1 : num 183 33 178 134 69 310 168 279 365 15 ...
## $ win_totalTimeCrowdControlDealt2 : num 92 291 82 61 503 45 291 493 119 62 ...
## $ win_totalTimeCrowdControlDealt3 : num 231 31 371 332 562 133 102 287 456 126 ...
## $ win_totalTimeCrowdControlDealt4 : num 54 235 140 274 79 78 444 501 215 209 ...
## $ win_totalTimeCrowdControlDealt5 : num 281 407 122 163 69 73 92 193 300 168 ...
## $ gameId : num 4.25e+09 4.25e+09 4.26e+09 4.26e+09 4.26e+09 ...

str(lose_stats_df)

## 'data.frame': 90500 obs. of 31 variables:
## $ lose_kills1 : num 3 0 3 1 4 7 0 11 3 0 ...
## $ lose_kills2 : num 0 2 5 6 2 1 3 5 10 1 ...
## $ lose_kills3 : num 4 3 1 2 4 4 4 3 7 2 ...
## $ lose_kills4 : num 4 3 1 1 1 5 2 7 2 2 ...
## $ lose_kills5 : num 4 0 1 3 5 0 4 1 6 0 ...
## $ lose_deaths1 : num 6 4 7 6 7 7 10 10 7 5 ...
## $ lose_deaths2 : num 6 6 4 3 6 9 5 4 6 2 ...
## $ lose_deaths3 : num 5 3 7 7 1 11 8 6 10 2 ...
## $ lose_deaths4 : num 7 4 5 4 7 4 9 7 10 3 ...
## $ lose_deaths5 : num 7 2 5 7 4 6 7 6 5 6 ...
## $ lose_totalDamageDealtToChampions1: num 10844 4618 7096 9492 9686 ...
## $ lose_totalDamageDealtToChampions2: num 7095 14837 17030 8557 14045 ...
## $ lose_totalDamageDealtToChampions3: num 13458 9197 8735 6679 24086 ...
## $ lose_totalDamageDealtToChampions4: num 9670 10035 7849 4058 2959 ...
## $ lose_totalDamageDealtToChampions5: num 14972 5531 5815 6912 16719 ...
## $ lose_goldEarned1 : num 6844 4524 6551 5442 7928 ...
## $ lose_goldEarned2 : num 5205 8823 7562 7846 8042 ...
## $ lose_goldEarned3 : num 8226 7788 5346 5092 12502 ...
## $ lose_goldEarned4 : num 7911 9008 5004 3931 6185 ...
## $ lose_goldEarned5 : num 8815 6993 5931 5071 10729 ...
## $ lose_visionScore1 : num 14 30 14 1 25 11 17 46 30 13 ...
## $ lose_visionScore2 : num 34 16 13 27 10 48 30 34 25 7 ...
## $ lose_visionScore3 : num 8 27 40 9 29 14 38 19 39 13 ...
## $ lose_visionScore4 : num 21 28 15 26 65 15 81 44 84 24 ...
## $ lose_visionScore5 : num 14 10 9 5 28 13 13 68 45 8 ...
## $ lose_totalTimeCrowdControlDealt1 : num 19 80 133 71 422 188 97 71 246 20 ...
## $ lose_totalTimeCrowdControlDealt2 : num 38 67 249 476 151 77 36 327 98 102 ...
## $ lose_totalTimeCrowdControlDealt3 : num 173 491 135 13 161 109 347 433 36 169 ...
## $ lose_totalTimeCrowdControlDealt4 : num 305 50 125 52 63 204 208 44 95 47 ...
## $ lose_totalTimeCrowdControlDealt5 : num 237 0 226 88 97 101 81 242 447 182 ...
## $ gameId : num 4.25e+09 4.25e+09 4.26e+09 4.26e+09 4.26e+09 ...

```

Then we combine each dataframe by their corresponding gameID.

```

# Replacing column names for rbind
colnames(win_stats_df) <- c('kill1', 'kill2', 'kill3', 'kill4', 'kill5', 'death1', 'death2', 'death3',
colnames(lose_stats_df) <- c('kill1', 'kill2', 'kill3', 'kill4', 'kill5', 'death1', 'death2', 'death3')

# Adding column based on dataset it is in
library(dplyr)

## 
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':

```

```

## filter, lag
## The following objects are masked from 'package:base':
## intersect, setdiff, setequal, union
win_stats_df <- win_stats_df %>%
  mutate(won=1)

lose_stats_df <- lose_stats_df %>%
  mutate(won =0)

#full_stats_df <- merge(win_stats_df, lose_stats_df, by = "gameId")
full_stats_df <- rbind(win_stats_df, lose_stats_df)
drop <- c("gameId")
full_stats_df <- full_stats_df[,-!(names(full_stats_df) %in% drop)]
str(full_stats_df)

## 'data.frame': 181000 obs. of 31 variables:
## $ kill1           : num 10 3 7 11 0 7 9 8 18 4 ...
## $ kill2           : num 4 7 3 4 4 1 10 10 5 2 ...
## $ kill3           : num 4 0 5 7 2 11 9 5 2 2 ...
## $ kill4           : num 6 7 9 2 11 10 9 10 2 6 ...
## $ kill5           : num 7 2 4 3 8 8 2 0 11 4 ...
## $ death1          : num 4 5 5 2 1 3 2 5 2 3 ...
## $ death2          : num 1 0 1 2 4 0 2 5 6 0 ...
## $ death3          : num 4 0 2 2 4 3 3 4 8 1 ...
## $ death4          : num 4 0 1 3 3 6 1 7 4 0 ...
## $ death5          : num 2 3 2 4 4 5 5 6 8 1 ...
## $ totalDamageDealtToChampions1: num 17898 16662 16241 12111 10900 ...
## $ totalDamageDealtToChampions2: num 15800 11674 7572 5510 11362 ...
## $ totalDamageDealtToChampions3: num 10786 7498 10024 8440 14494 ...
## $ totalDamageDealtToChampions4: num 16964 13016 15115 5373 27391 ...
## $ totalDamageDealtToChampions5: num 11568 11393 12395 11038 22399 ...
## $ goldEarned1     : num 9802 8452 9029 10175 7217 ...
## $ goldEarned2     : num 9203 9069 6921 5552 10497 ...
## $ goldEarned3     : num 11127 6023 8331 7439 10323 ...
## $ goldEarned4     : num 9286 9868 11860 5873 13499 ...
## $ goldEarned5     : num 10414 7660 8589 7033 12720 ...
## $ visionScore1    : num 28 14 11 17 42 41 19 23 72 9 ...
## $ visionScore2    : num 16 27 35 25 38 41 46 55 50 21 ...
## $ visionScore3    : num 23 46 25 17 30 21 25 47 29 13 ...
## $ visionScore4    : num 17 16 15 9 18 39 31 25 80 19 ...
## $ visionScore5    : num 36 22 21 19 26 19 86 70 22 10 ...
## $ totalTimeCrowdControlDealt1 : num 183 33 178 134 69 310 168 279 365 15 ...
## $ totalTimeCrowdControlDealt2 : num 92 291 82 61 503 45 291 493 119 62 ...
## $ totalTimeCrowdControlDealt3 : num 231 31 371 332 562 133 102 287 456 126 ...
## $ totalTimeCrowdControlDealt4 : num 54 235 140 274 79 78 444 501 215 209 ...
## $ totalTimeCrowdControlDealt5 : num 281 407 122 163 69 73 92 193 300 168 ...
## $ won              : num 1 1 1 1 1 1 1 1 1 1 ...

```

The data has too many columns for the algorithms to process efficiently, so I combined and deleted redundant columns (went from 31 columns to seven).

```

set.seed(1010)
i <- sample(1:nrow(full_stats_df), .75*nrow(full_stats_df), replace=FALSE)
full_stats_smol <- full_stats_df[-i,]

lolDataless <- full_stats_smol %>% rowwise() %>% mutate(TotalKill = sum(c_across(kill1:kill5)))

lolDataless <- lolDataless %>% rowwise() %>% mutate(TotalDeath = sum(c_across(death1:death5)))

lolDataless <- lolDataless %>% rowwise() %>% mutate(TotalDamage = sum(c_across(totalDamageDealtToChampi))

lolDataless <- lolDataless %>% rowwise() %>% mutate(TotalGold = sum(c_across(goldEarned1:goldEarned5)))

lolDataless <- lolDataless %>% rowwise() %>% mutate(TotalVision = sum(c_across(visionScore1:visionScore5)))

lolDataless <- lolDataless %>% rowwise() %>% mutate(TotalCrowdControl = sum(c_across(totalTimeCrowdCont

drop <- c('kill1', 'kill2', 'kill3', 'kill4', 'kill5', 'death1', 'death2', 'death3', 'death4', 'death5')

lolDataless = lolDataless[, !(names(lolDataless) %in% drop)]

```

After manipulating datasets, we perform the kmeans on the data.

```

set.seed(1234)
lolCluster <- kmeans( lolDataless, 5)
lolCluster

## K-means clustering with 5 clusters of sizes 12943, 12443, 8503, 2846, 8515
##
## Cluster means:
##          won TotalKill TotalDeath TotalDamage TotalGold TotalVision
## 1 0.4576219 17.797651   19.23596   46131.33  39243.74   102.37627
## 2 0.5492245 25.490316   23.67910   71276.61  51302.50   149.16242
## 3 0.3113019  8.467012   14.18111   22590.21  24377.08   50.09385
## 4 0.6233310 40.697119   37.76774   140810.54 73565.44   224.51441
## 5 0.6259542 32.585085   29.17980   99189.57  61819.08   187.79060
##          TotalCrowdControl
## 1           719.4062
## 2            934.9839
## 3            451.0146
## 4            1395.6026
## 5            1129.4196
##
## Clustering vector:
## [1] 5 1 5 1 3 1 1 1 2 3 5 2 2 1 2 2 2 5 5 1 1 2 2 5 1 1 1 2 1 5 1 5 2 4
## [37] 3 5 5 1 1 5 4 5 1 1 1 2 3 1 4 2 4 4 4 2 2 2 3 4 5 5 5 1 1 1 5 2 2 3 5 1
## [73] 1 2 5 5 1 2 2 1 2 3 2 2 3 1 1 2 1 2 4 4 2 5 1 1 3 5 5 4 4 2 2 5 1 2 2 2
## [109] 4 2 2 1 2 5 1 4 3 2 1 5 2 1 1 2 3 2 3 3 3 5 2 1 1 2 5 1 5 5 2 2 2 1 1 2
## [145] 1 2 2 2 5 2 2 3 5 2 2 1 4 2 1 5 1 1 5 5 1 2 2 2 1 4 4 2 2 2 2 2 4 2 3
## [181] 1 5 3 1 5 5 2 2 1 1 2 4 5 3 1 1 2 5 2 2 2 4 2 5 2 5 5 2 2 2 1 1 2 3 5
## [217] 5 2 5 1 5 5 5 2 2 5 1 1 5 2 1 5 5 1 5 2 1 1 5 3 4 3 4 3 1 4 5 2 1 3 3 5
## [253] 2 1 1 2 3 5 1 3 2 5 2 5 2 2 1 5 1 3 5 1 2 2 2 2 4 2 2 5 3 5 1 5 5 5 2 1
## [289] 2 4 5 4 1 1 3 5 2 2 1 1 5 1 5 5 1 5 1 2 4 5 5 2 4 3 1 4 5 2 4 2 2 5 1 5
## [325] 2 2 5 1 1 1 2 4 2 2 5 2 5 1 2 1 1 5 5 2 5 1 5 1 4 2 1 1 2 1 2 2 5 4 1
## [361] 1 1 1 5 2 2 5 1 5 3 3 1 2 1 3 3 1 2 5 3 1 1 3 2 2 2 5 2 4 5 5 3 2 2 1 1
## [397] 5 1 3 5 2 5 1 2 5 2 5 2 1 5 2 1 2 2 3 3 3 5 1 5 5 5 1 2 5 1 2 2 5 2 5 1

```

```

## [433] 2 1 5 2 5 5 1 2 1 5 2 2 4 2 5 2 5 2 2 4 5 1 2 5 2 3 5 2 2 5 2 1 1 1 2 5
## [469] 2 2 1 1 2 5 5 2 3 4 5 3 2 2 5 2 4 2 5 5 2 2 2 5 1 2 4 2 2 5 5 1 1 1 5 1
## [505] 1 2 5 1 2 1 2 2 2 1 1 2 4 1 3 2 5 2 2 2 5 2 2 5 5 4 5 4 1 2 5 2 2 1 3 1
## [541] 2 1 2 5 4 1 5 2 3 1 1 4 2 3 1 4 5 1 5 2 1 2 2 1 1 2 2 5 1 4 5 3 2 1 3 1
## [577] 5 5 5 2 5 1 2 1 4 2 5 3 5 1 3 5 3 2 1 5 2 1 2 2 5 2 5 4 2 5 2 5 1 3 2 2
## [613] 1 2 1 5 5 5 5 1 2 1 5 3 5 5 1 2 2 1 1 1 4 2 2 5 2 5 1 2 1 3 2 5 3 2 2
## [649] 2 5 5 3 5 5 2 2 5 2 2 5 2 3 2 3 2 1 3 2 1 5 1 2 1 2 2 2 2 5 5 2 1 3 2 5
## [685] 4 5 1 2 5 2 5 4 5 2 2 2 2 4 2 1 4 1 1 2 4 5 3 2 3 2 2 3 2 2 1 5 5 1 5 2
## [721] 1 2 1 2 1 1 5 2 4 5 3 1 2 5 2 2 1 4 2 2 5 5 2 2 1 5 2 2 2 1 2 2 5 2 1 1
## [757] 2 2 2 5 1 1 3 5 4 2 5 1 3 4 5 5 1 1 5 5 3 2 2 5 1 5 4 2 5 5 5 2 2 3 2 1
## [793] 1 2 3 1 3 1 1 4 1 2 2 2 1 5 5 3 2 2 2 2 3 4 5 2 1 1 1 4 1 2 3 2 3 1 5 5
## [829] 2 2 5 2 1 2 5 2 3 2 2 5 2 2 1 3 4 1 2 2 2 5 2 1 2 1 5 2 4 1 3 5 3 5 2 1
## [865] 1 5 5 3 2 1 1 1 1 2 3 2 5 3 1 4 2 1 5 1 2 2 2 3 2 1 2 5 2 5 5 1 5 5 2
## [901] 5 2 5 5 4 3 2 2 2 2 4 4 1 1 3 2 5 1 2 5 3 1 2 2 2 1 4 5 1 2 2 4 1 5 2 2
## [937] 3 3 5 1 1 5 4 5 1 1 5 2 1 3 4 1 1 4 2 1 1 5 2 5 5 5 3 2 1 3 1 5 1 4 1 2
## [973] 5 3 5 3 1 5 1 3 1 1 1 1 1 3 2 4 4 5 5 5 1 5 2 1 3 1 1 3 1 1 2 1 1 4 4
## [1009] 3 1 4 2 1 5 2 2 1 2 5 1 2 1 1 2 3 2 1 5 2 1 2 2 2 5 4 3 1 4 1 2 1 4 5 4
## [1045] 5 4 1 5 1 5 4 5 3 2 5 2 2 5 5 2 3 1 2 1 2 2 3 3 5 1 1 4 5 1 3 3 2 2 2 1
## [1081] 5 2 2 1 5 5 1 3 1 5 5 1 2 3 3 5 2 2 3 1 2 2 5 2 2 2 3 2 1 3 5 2 1 1 1 1
## [1117] 3 3 2 5 5 2 2 4 2 3 2 2 2 1 5 2 1 2 5 2 2 1 5 1 3 1 5 1 1 1 1 3 1 5 4 1
## [1153] 2 5 1 1 3 5 1 2 1 4 2 5 5 3 3 2 3 1 3 5 5 5 2 1 5 5 3 5 3 2 1 5 1 1 2 2
## [1189] 1 1 5 2 3 1 1 5 2 5 5 5 1 5 2 1 1 4 2 5 4 4 3 5 2 5 2 1 2 2 3 1 2 1 5 5
## [1225] 1 4 2 5 3 3 2 1 4 5 5 5 1 1 1 1 4 2 1 5 4 5 4 4 3 5 1 5 5 2 4 2 1 4 2 5
## [1261] 1 2 1 2 2 5 2 5 1 1 1 5 2 1 3 1 5 2 1 5 3 1 4 1 1 5 3 5 3 5 1 5 5 5 2 5
## [1297] 2 2 3 3 3 2 5 1 2 1 5 5 1 2 3 2 5 4 5 3 1 5 1 1 1 2 2 5 2 2 2 1 3 5 2
## [1333] 5 5 4 2 3 2 2 2 2 4 5 4 1 5 1 2 1 5 1 3 1 2 5 3 5 2 1 1 2 2 1 5 2 1 1 2
## [1369] 2 1 1 4 1 5 2 3 3 5 4 4 5 2 5 1 1 2 2 5 3 5 3 1 2 5 1 4 2 5 2 4 5 3 1 2
## [1405] 4 1 5 5 5 1 2 2 2 1 1 5 4 1 1 4 2 4 2 1 1 1 2 1 3 2 5 5 2 2 2 3 5 3 5 4
## [1441] 4 5 2 2 2 1 1 5 2 2 2 5 2 1 5 1 5 1 5 4 5 1 1 1 1 2 4 2 1 4 1 3 1 2 1 1
## [1477] 5 2 2 2 1 1 5 1 2 1 2 1 1 4 2 5 5 4 1 5 5 3 1 3 5 5 1 1 2 1 1 4 5 4 5 1
## [1513] 2 5 1 1 1 5 3 3 1 2 2 2 5 2 2 1 2 2 1 3 5 2 5 1 5 2 5 2 2 2 5 4 1 4 1 2
## [1549] 5 4 3 2 1 5 1 1 5 4 2 3 1 2 2 4 2 2 2 2 3 1 1 2 1 1 3 3 3 1 2 3 1 4 4 3
## [1585] 2 1 2 2 2 2 5 2 1 3 2 4 2 2 5 2 1 2 5 1 3 3 3 1 3 4 3 2 2 1 1 5 5 1 4 4
## [1621] 3 5 2 5 3 2 4 5 1 5 4 2 1 1 2 2 1 2 2 1 4 2 2 1 1 5 1 1 2 4 2 1 1 1 5 2
## [1657] 1 2 2 2 5 1 1 3 2 5 2 1 1 4 1 1 1 5 5 2 1 1 2 1 5 2 1 5 1 1 3 1 3 2 2 5
## [1693] 5 4 3 2 1 5 5 5 1 3 1 1 2 5 1 2 1 5 1 3 3 1 1 3 1 5 2 2 4 2 2 2 2 1 1 5
## [1729] 5 2 2 1 3 5 2 2 5 4 3 1 4 5 2 1 1 2 2 2 4 5 5 1 5 3 1 1 2 2 2 2 2 1 2 3
## [1765] 2 4 2 5 3 5 2 4 2 4 4 2 1 5 2 4 5 5 5 5 1 1 2 2 5 2 3 2 2 5 2 1 5 3 5 1
## [1801] 1 4 2 1 2 1 1 1 5 1 1 2 1 2 5 4 1 1 1 2 1 1 1 2 5 1 2 2 5 2 1 1 4 2 5
## [1837] 2 4 2 4 1 5 2 2 2 3 5 5 4 5 2 3 1 1 3 3 2 3 3 5 3 1 4 3 3 1 4 2 2 1 1 1
## [1873] 1 2 5 5 3 4 2 5 5 1 2 5 5 3 3 5 5 1 2 2 2 4 2 5 2 1 4 3 3 5 1 3 3 3 2 3
## [1909] 2 1 1 2 1 5 2 1 5 2 1 5 5 1 5 1 4 1 5 1 4 3 3 4 3 5 3 5 3 2 4 1 2 5 4 1
## [1945] 3 2 1 5 3 4 4 1 4 5 1 2 4 2 2 1 1 5 2 5 2 2 5 1 1 3 1 1 5 5 2 2 1 2 5 1
## [1981] 1 2 2 2 1 2 3 1 1 1 3 2 2 2 5 1 1 3 5 5 1 1 2 3 5 2 3 4 3 2 5 5 5 1 1 1
## [2017] 3 2 3 4 2 1 2 4 2 2 4 5 3 5 5 5 5 2 1 1 2 5 4 2 4 1 2 2 1 4 1 4 5 1 1 1
## [2053] 1 4 2 1 1 5 1 1 1 2 5 1 1 2 1 1 4 5 4 2 2 2 2 1 3 4 5 5 2 5 5 1 1 2 2 2
## [2089] 2 5 1 5 5 2 2 2 4 1 4 1 2 4 2 5 5 2 2 5 1 3 5 2 5 1 1 1 1 5 5 5 1 3 2 1
## [2125] 5 2 4 2 5 1 5 1 5 2 2 2 2 5 2 5 1 2 1 1 5 1 5 1 3 5 3 2 5 2 4 4 5 1 1 4
## [2161] 1 1 2 1 3 2 5 1 1 1 5 4 5 3 1 1 5 2 1 4 3 1 2 5 1 5 1 2 5 2 2 5 2 5 2 1
## [2197] 1 2 5 5 5 4 5 1 1 2 5 4 2 2 2 1 5 1 5 2 1 1 1 2 3 1 1 2 2 2 5 2 1 4 1 5
## [2233] 2 1 1 5 3 2 5 2 5 3 2 1 1 4 5 4 1 2 2 1 2 5 5 2 5 3 2 1 4 1 5 2 3 5 2 4
## [2269] 1 5 5 2 2 2 2 5 5 2 2 1 2 2 5 5 1 1 4 1 5 2 2 1 3 2 2 2 1 1 5 5 1 1 5 3
## [2305] 1 5 1 3 5 2 2 4 2 3 1 1 1 1 4 4 5 2 1 2 5 2 1 3 2 5 1 1 3 2 3 2 4 2 1 2
## [2341] 2 1 2 1 2 5 2 5 1 2 3 2 3 5 2 4 5 1 1 2 3 5 1 3 1 5 2 1 1 2 2 5 2 5 4 2

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## [2377] 1 5 2 5 2 1 5 2 1 1 1 5 5 5 1 4 5 2 2 5 2 2 5 1 1 1 5 1 5 2 1 1 3
## [2413] 1 5 1 4 5 2 3 2 2 1 2 5 4 2 5 4 3 5 5 2 3 5 4 2 5 2 2 5 1 2 1 4 1 2 5 2
## [2449] 1 5 5 2 5 5 1 5 1 5 2 5 3 1 2 2 1 1 4 1 1 2 3 2 2 1 2 5 3 2 2 1 2 1 1 2
## [2485] 2 1 2 5 2 2 1 3 2 4 2 2 5 3 2 2 5 2 1 5 5 2 4 3 2 5 5 5 2 1 5 3 2 2 1 4
## [2521] 5 5 1 5 1 5 5 2 2 5 1 1 2 5 5 5 5 2 1 1 1 5 2 3 2 1 5 4 2 1 2 5 5 3 1
## [2557] 5 2 4 1 5 2 1 5 2 5 5 5 1 2 2 2 5 4 5 1 3 3 2 1 2 2 3 2 4 3 1 1 1 1 2
## [2593] 1 5 1 1 2 4 1 1 2 5 2 4 2 5 2 5 4 4 2 5 4 2 2 1 1 3 1 1 5 5 2 5 2 1 3 1
## [2629] 2 4 3 1 4 5 3 4 1 5 2 4 3 1 5 5 5 5 1 2 2 5 2 2 2 5 2 5 3 1 5 5 4 1 5
## [2665] 4 4 2 2 4 5 2 5 5 1 2 1 5 5 4 1 1 2 2 3 5 5 2 1 1 2 2 5 2 1 1 1 2 5 2 2
## [2701] 5 1 5 1 3 5 5 1 5 2 2 1 2 5 1 1 1 1 2 2 1 5 5 2 2 4 2 5 5 2 2 4 5 1 2
## [2737] 1 2 1 2 1 3 1 2 3 1 2 4 2 2 2 5 5 3 5 5 5 2 4 2 2 1 4 2 3 2 4 3 5 2 2 5
## [2773] 5 5 2 2 3 1 4 2 5 2 2 2 2 4 2 2 1 2 1 3 1 3 5 2 2 2 2 2 2 1 2 3 1 4 1 3
## [2809] 5 1 5 2 2 1 2 5 2 5 2 1 1 1 2 4 1 1 1 2 4 2 3 5 1 2 2 1 3 5 1 1 1 2 5 2
## [2845] 1 1 2 3 2 2 5 5 3 5 5 5 5 1 2 4 1 2 5 2 5 2 2 5 2 2 1 4 5 3 2 3 1 1 2
## [2881] 1 5 4 2 2 5 1 5 2 1 1 2 2 2 2 4 1 2 2 1 5 2 2 2 3 2 3 2 3 2 3 5 2 1
## [2917] 5 4 2 1 5 5 2 2 2 5 1 1 5 1 5 3 2 2 1 1 1 5 2 2 5 5 1 3 2 5 5 5 2 2 5 5
## [2953] 4 1 5 2 2 1 5 1 2 4 2 2 2 1 3 1 1 1 2 5 1 3 2 1 5 3 5 5 2 2 5 2 5 1 5 1
## [2989] 5 5 2 2 4 2 1 1 5 2 1 5 5 1 2 2 5 3 2 5 1 5 1 1 5 1 1 1 5 3 2 1 4 5 1 2
## [3025] 2 2 5 2 2 5 2 2 5 1 2 5 2 3 5 1 2 1 3 1 2 1 4 3 5 3 5 4 4 2 5 5 2 2 4 3
## [3061] 1 4 5 4 1 5 3 4 2 1 2 1 3 5 1 5 2 2 4 1 1 5 3 5 5 1 5 2 5 3 1 2 3 2 2 4
## [3097] 5 5 2 2 5 2 1 1 2 1 4 4 5 2 1 1 5 3 4 2 2 2 5 2 5 5 2 1 1 3 1 3 1 1 5 2
## [3133] 1 1 1 2 1 1 5 5 5 2 2 2 3 2 5 2 1 5 2 2 2 3 1 2 2 5 2 3 5 2 5 2 5 5 5
## [3169] 1 4 2 1 2 2 3 1 2 1 5 5 2 5 5 1 5 4 3 5 1 1 1 5 1 1 1 5 1 2 2 3 1 1 2 1
## [3205] 1 1 3 2 4 3 2 3 1 2 2 2 1 1 2 1 2 1 1 1 1 2 5 5 5 1 1 1 2 5 2 2 1 1 3
## [3241] 1 2 5 1 5 2 1 1 1 5 1 3 3 2 1 2 2 2 3 2 2 2 2 5 3 5 5 1 3 2 5 2 1 2 3 2
## [3277] 3 1 4 5 1 3 5 5 2 4 2 3 2 5 5 2 4 4 4 3 4 5 4 4 2 2 1 5 1 2 1 2 5 4 5 1
## [3313] 5 5 3 3 4 1 5 5 1 2 3 5 2 1 1 2 3 2 5 3 3 5 5 4 3 1 5 1 1 2 3 5 2 4 2 5
## [3349] 2 2 5 2 3 1 1 1 2 2 1 3 5 2 3 1 5 4 2 5 5 5 2 4 2 2 3 3 1 4 1 2 2 1 5 2
## [3385] 5 5 5 2 5 4 2 3 1 5 4 4 2 1 5 3 5 3 2 5 5 2 1 5 2 1 1 2 5 4 4 5 1 3 1 2
## [3421] 3 4 2 5 2 1 1 4 1 3 5 2 2 1 5 1 3 1 2 2 1 4 1 2 1 5 5 5 1 2 5 5 2 3 5 1
## [3457] 5 1 1 5 5 3 1 2 1 3 2 5 5 2 3 1 1 2 2 3 1 1 3 5 5 4 1 1 2 2 3 2 5 3 2 4
## [3493] 5 2 5 2 2 2 1 5 5 2 1 1 5 1 4 5 1 5 1 1 2 4 3 2 1 5 1 2 5 1 5 3 2 1 1 2
## [3529] 3 5 4 3 1 5 2 1 2 1 2 5 4 1 4 4 2 2 2 5 1 3 5 5 1 5 1 2 1 3 5 1 2 3 1 3
## [3565] 3 1 1 5 1 2 2 2 2 2 1 1 4 1 5 2 5 2 2 2 5 1 4 2 1 5 3 2 1 5 1 2 5 5 5 2
## [3601] 2 4 5 2 5 1 3 5 5 1 5 3 2 1 2 3 2 5 5 5 5 5 5 3 1 3 5 2 5 5 1 3 3 2 4
## [3637] 1 2 3 5 5 1 1 2 5 2 1 5 3 1 5 5 5 2 2 2 2 5 2 3 1 2 1 1 1 2 2 5 5 2 2 2
## [3673] 5 2 5 3 2 5 1 5 1 1 1 1 1 2 2 5 4 3 4 1 1 4 5 3 1 1 1 5 3 5 4 1 3 3 3 3
## [3709] 2 2 5 3 1 3 1 1 4 4 5 1 2 2 3 2 1 2 2 5 1 4 2 1 5 2 5 1 3 2 1 3 5 4 2 5
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## [44425] 2 2 3 3 2 2 3 1 2 2 3 1 2 1 1 1 5 1 5 3 2 1 3 5 1 1 2 1 3 4 3 5 3 5 2 1
## [44461] 2 1 2 3 3 5 2 1 3 3 1 2 1 1 1 1 1 1 5 2 2 2 1 5 1 2 5 2 3 2 2 1 2 1 2 1
## [44497] 3 3 2 3 3 3 3 2 3 2 3 1 2 3 3 2 3 1 2 5 5 3 1 5 5 3 1 3 3 1 5 1 1 4 5 3
## [44533] 3 1 1 3 1 2 3 5 1 5 1 3 2 2 3 1 1 2 5 2 1 1 5 1 1 3 4 1 4 2 3 3 2 2 1 4
## [44569] 2 3 3 2 1 3 3 3 2 5 2 3 3 1 5 2 4 2 5 3 1 1 4 2 3 4 2 3 3 5 2 1 2 5 1 2
## [44605] 1 3 1 2 1 2 2 1 4 5 1 2 1 3 5 5 1 3 1 3 5 1 1 3 5 3 3 3 2 5 5 2 1 1 3 1
## [44641] 1 4 3 3 3 3 1 1 3 1 1 5 1 2 3 3 1 1 5 2 1 1 3 3 5 1 1 3 1 3 5 1 1 2 1 3
## [44677] 1 3 3 3 3 2 2 1 5 1 3 1 5 3 3 2 5 4 2 2 1 1 1 2 1 3 5 4 1 5 3 4 1 3 2 1
## [44713] 5 1 3 3 2 5 2 5 3 2 1 2 1 4 2 3 4 3 5 1 5 1 2 1 3 1 5 3 1 3 3 1 3 1 3 5
## [44749] 1 1 5 1 1 2 5 5 1 4 1 2 2 1 3 5 2 3 5 3 2 3 1 4 5 1 3 5 1 5 1 3 3 2 2 3
## [44785] 3 3 3 1 5 5 1 5 2 1 5 2 3 5 3 1 1 1 1 1 3 2 3 1 1 3 1 1 2 1 2 1 2 5 1 2 5
## [44821] 3 1 1 3 1 2 5 5 1 3 1 1 1 3 3 4 2 2 3 2 5 1 1 3 3 5 2 2 2 2 1 3 5 3 1 3
## [44857] 1 3 5 5 3 3 1 5 3 3 1 2 1 2 1 4 5 2 1 4 3 1 2 5 1 3 1 2 2 1 2 2 2 5 1 5
## [44893] 5 3 3 3 3 3 2 5 1 5 5 1 1 3 2 1 1 1 3 3 5 3 3 1 2 1 3 3 4 5 5 5 5 5 2
## [44929] 3 2 3 3 5 1 3 2 1 1 1 5 1 5 2 1 2 2 3 1 5 3 1 1 5 2 2 5 4 2 3 1 3 1 1 3
## [44965] 1 1 1 2 2 1 1 3 2 1 1 1 1 1 1 5 3 3 2 1 1 3 2 3 5 2 1 5 5 1 5 1 2 3
## [45001] 1 3 3 5 3 3 2 2 2 1 2 3 1 3 2 3 1 1 3 1 2 1 3 5 3 1 3 2 4 3 1 2 1 3 1 2
## [45037] 1 1 1 5 5 2 1 1 1 1 1 3 2 2 1 5 3 4 3 2 1 1 1 3 5 1 2 2 1 1 1 2 3 3 2 1
## [45073] 1 2 1 2 3 3 5 3 3 1 1 3 4 2 1 3 1 4 3 1 2 1 3 2 5 1 2 3 1 2 2 4 3 3 3 1 1
## [45109] 2 1 1 1 5 2 5 2 5 3 1 1 2 2 1 3 3 1 1 1 2 3 5 1 1 1 2 1 1 3 3 3 1 1 2 1
```

```

## [45145] 1 3 1 5 5 2 1 1 5 2 2 5 2 1 2 4 3 2 1 5 3 5 3 1 5 5 5 1 2 2 5 5 2 1 2 2
## [45181] 2 2 1 3 3 1 3 1 3 1 1 1 3 5 2 2 4 5 1 5 5 5 3 1 3 1 1 3 3 2 5 2 3 2 1 3
## [45217] 3 1 3 3 3 1 3 4 3 3 2 2 1 3 1 1 2 2 3 3 3 5 1 1 2 5 2 1 2 3 2 1 2 1
##
## Within cluster sum of squares by cluster:
## [1] 1.015880e+12 1.107027e+12 1.193727e+12 1.275697e+12 1.092545e+12
##   (between_SS / total_SS =  90.8 %)
##
## Available components:
##
## [1] "cluster"      "centers"       "totss"        "withinss"     "tot.withinss"
## [6] "betweenss"    "size"         "iter"         "ifault"

This is another way to show how the clustering happened.


```

```

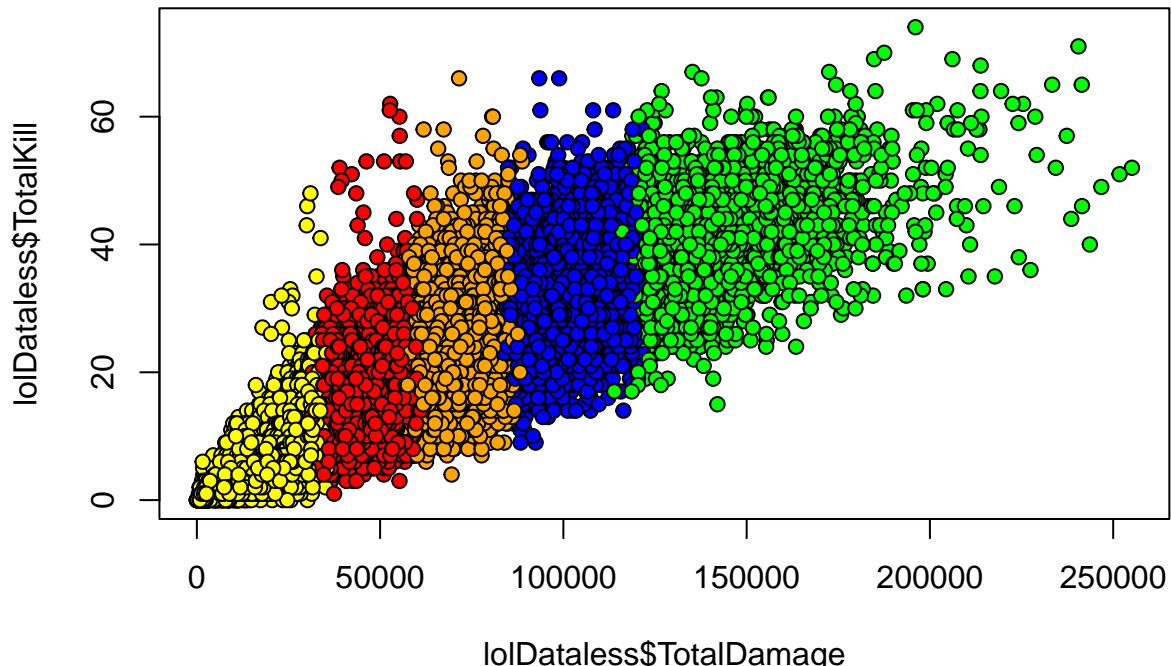
##
##      0      1
## 1 7020 5923
## 2 5609 6834
## 3 5856 2647
## 4 1072 1774
## 5 3185 5330

```

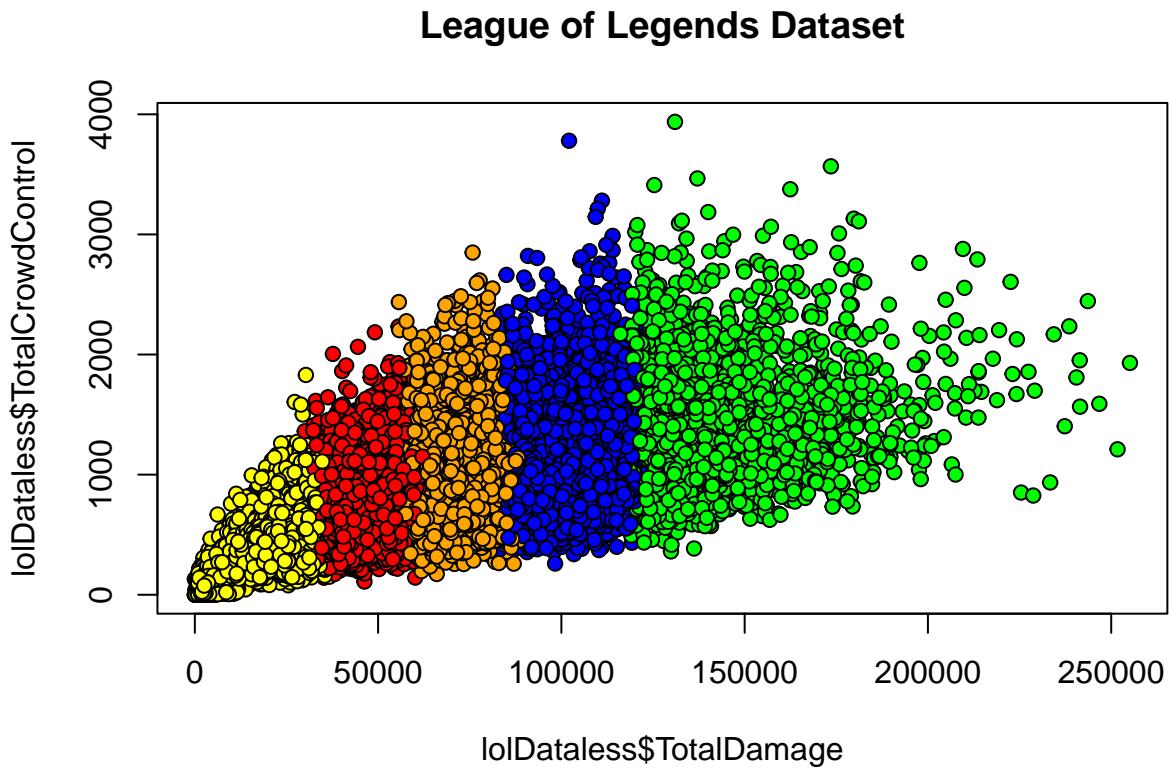
Now to plot the kmeans.

```
plot(lolDataless$TotalDamage, lolDataless$TotalKill, pch=21, bg=c("red", "orange", "yellow", "green", "blue"))
```

League of Legends Dataset

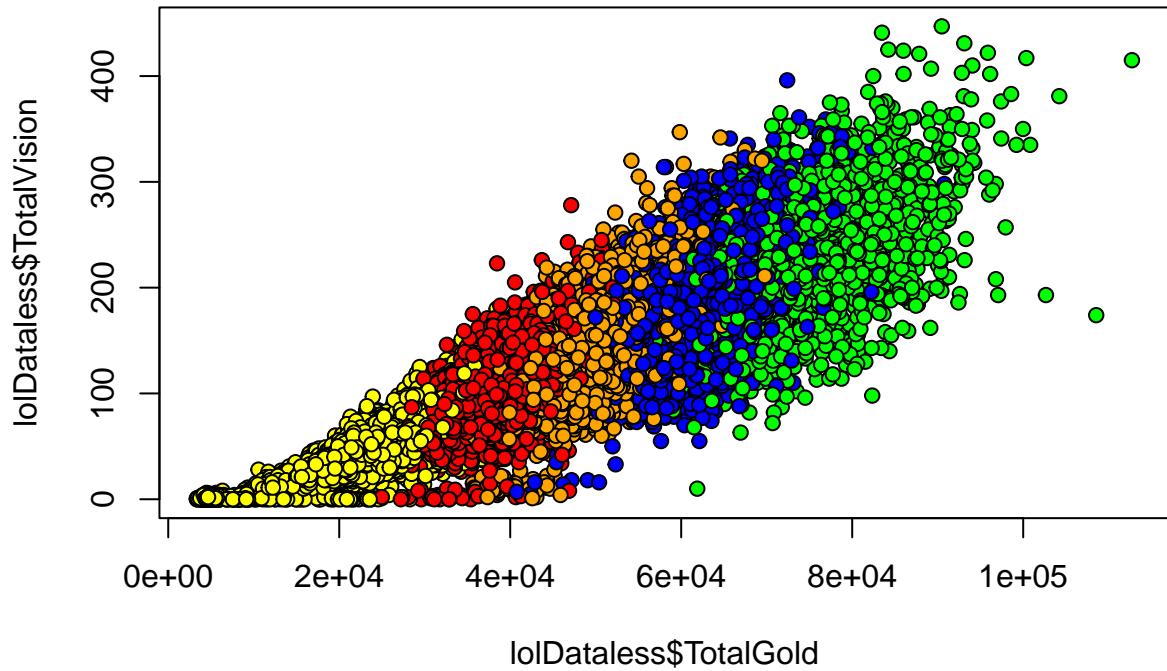


```
plot(lolDataless$TotalDamage, lolDataless$TotalCrowdControl, pch=21, bg=c("red", "orange", "yellow", "green"))
```



```
plot(lolDataless$TotalGold, lolDataless$TotalVision, pch=21, bg=c("red", "orange", "yellow", "green"))
```

League of Legends Dataset

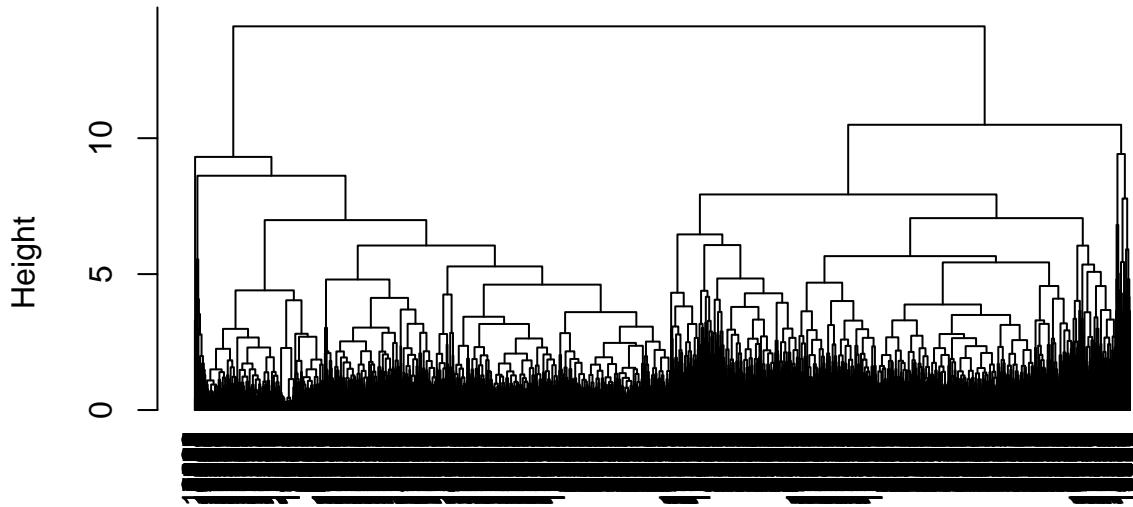


Finally its time for the hierarchical clustering.

```
j <- sample(1:nrow(lolDataless), .75*nrow(lolDataless), replace=FALSE)
lolDatalessSmol <- lolDataless[-j,]
full.scaled <- scale(lolDatalessSmol)

d <- dist(full.scaled)
fit.average <- hclust(d, method="complete")
plot(fit.average, hang=-1, cex=.8, main="Hierarchical Clustering")
```

Hierarchical Clustering



d
hclust (*, "complete")

This is the third algorithm. I chose the pvclust algorithm that calculates the p-values and a hierarchical clustering.

```
#tlolDataless <- t(lolDataless)
#fit2 <- pvclust(tlolDataless, method.hclust = "ward", method.dist = "euclidean")
#plot(fit2)
#pvrect(fit2, alpha=.95)
```

Overall, I felt as though I understood kmeans more than I understood hierarchical clustering (HC). For this data set, the HC makes little to no sense, possibly due to the abundance of rows and columns. The kmeans shows similarities and differences between players, highlighting the one (yellow) who may have played a healer role (leading to less impressive damage and kill stats) or was simply a new player. Hierarchical clustering didn't seem to be very useful for this data set. Even after altering the number of columns in the data set, the hierarchical clustering doesn't seem to be able to handle the number of columns or the large variance in the data. The cluster dendrogram with p-value clustered the total damage and the total gold together, implying that there is a correlation between the two, and clustered the total crowd control, vision, kill, death and whether or not they won grouped together.