

154_project

Jason Wang, Liam Toebes, Senjie Wang

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```
library(stringr)
library(e1071)
library(tree)
library(splines)
library(corrplot)

## corrplot 0.84 loaded

library(randomForest)

## randomForest 4.6-14

## Type rfNews() to see new features/changes/bug fixes.

library(caret)

## Loading required package: lattice
## Loading required package: ggplot2
##
## Attaching package: 'ggplot2'
## The following object is masked from 'package:randomForest':
##
##     margin
epl=data.frame(read.csv("epldata_final.csv"))

#print(epl)
#barplot(table(epl$position))
#dim(model.matrix( ~ club + position +nationality- 1, data=epl ))
```

Data wrangling

We combine columns of one-hot encoding of club, position, and nationality into epl data frame.

```
epl$fpl_sel <- as.double(str_remove(epl$fpl_sel, "%$"))
epl <- cbind(epl, model.matrix( ~ club + position +nationality- 1, data=epl))
#epl
```

We remove columns we don't use and we clean up the NAs. Lastly, we split the data into training and test set.

```
#deleting unwanted columns
epl$name=NULL
epl$club=NULL
epl$position=NULL
#epl$page_views=NULL
#epl$fpl_value=NULL
epl$fpl_sel=NULL
```

```

#epl$fpl_points=NULL
epl$nationality=NULL
epl$age_cat=NULL
#epl$club_id=NULL

#head(epl)
epl=na.omit(epl)
factors=c('position_cat','region','big_club','new_signing','new_foreign')
#head(epl)
#epl[factors] <- lapply(epl[factors] , factor)
names(epl)

```

```

##      [1] "age"                                "position_cat"
##      [3] "market_value"                      "page_views"
##      [5] "fpl_value"                         "fpl_points"
##      [7] "region"                            "new_foreign"
##      [9] "club_id"                           "big_club"
##     [11] "new_signing"                       "clubArsenal"
##     [13] "clubBournemouth"                  "clubBrighton+and+Hove"
##     [15] "clubBurnley"                      "clubChelsea"
##     [17] "clubCrystal+Palace"                "clubEverton"
##     [19] "clubHuddersfield"                  "clubLeicester+City"
##     [21] "clubLiverpool"                    "clubManchester+City"
##     [23] "clubManchester+United"             "clubNewcastle+United"
##     [25] "clubSouthampton"                  "clubStoke+City"
##     [27] "clubSwansea"                      "clubTottenham"
##     [29] "clubWatford"                      "clubWest+Brom"
##     [31] "clubWest+Ham"                     "positionCB"
##     [33] "positionCF"                       "positionCM"
##     [35] "positionDM"                       "positionGK"
##     [37] "positionLB"                       "positionLM"
##     [39] "positionLW"                       "positionRB"
##     [41] "positionRM"                       "positionRW"
##     [43] "positionSS"                       "nationalityArgentina"
##     [45] "nationalityArmenia"                "nationalityAustralia"
##     [47] "nationalityAustria"                "nationalityBelgium"
##     [49] "nationalityBenin"                  "nationalityBermuda"
##     [51] "nationalityBosnia"                 "nationalityBrazil"
##     [53] "nationalityCameroon"               "nationalityCanada"
##     [55] "nationalityChile"                  "nationalityColombia"
##     [57] "nationalityCongo DR"               "nationalityCote d'Ivoire"
##     [59] "nationalityCroatia"                "nationalityCuracao"
##     [61] "nationalityCzech Republic"         "nationalityDenmark"
##     [63] "nationalityEcuador"                "nationalityEgypt"
##     [65] "nationalityEngland"                "nationalityEstonia"
##     [67] "nationalityFinland"                 "nationalityFrance"
##     [69] "nationalityGermany"                 "nationalityGhana"
##     [71] "nationalityGreece"                 "nationalityIceland"
##     [73] "nationalityIreland"                 "nationalityIsrael"
##     [75] "nationalityItaly"                  "nationalityJamaica"
##     [77] "nationalityJapan"                  "nationalityKenya"
##     [79] "nationalityMali"                   "nationalityMorocco"
##     [81] "nationalityNetherlands"            "nationalityNew Zealand"
##     [83] "nationalityNigeria"                "nationalityNorthern Ireland"

```

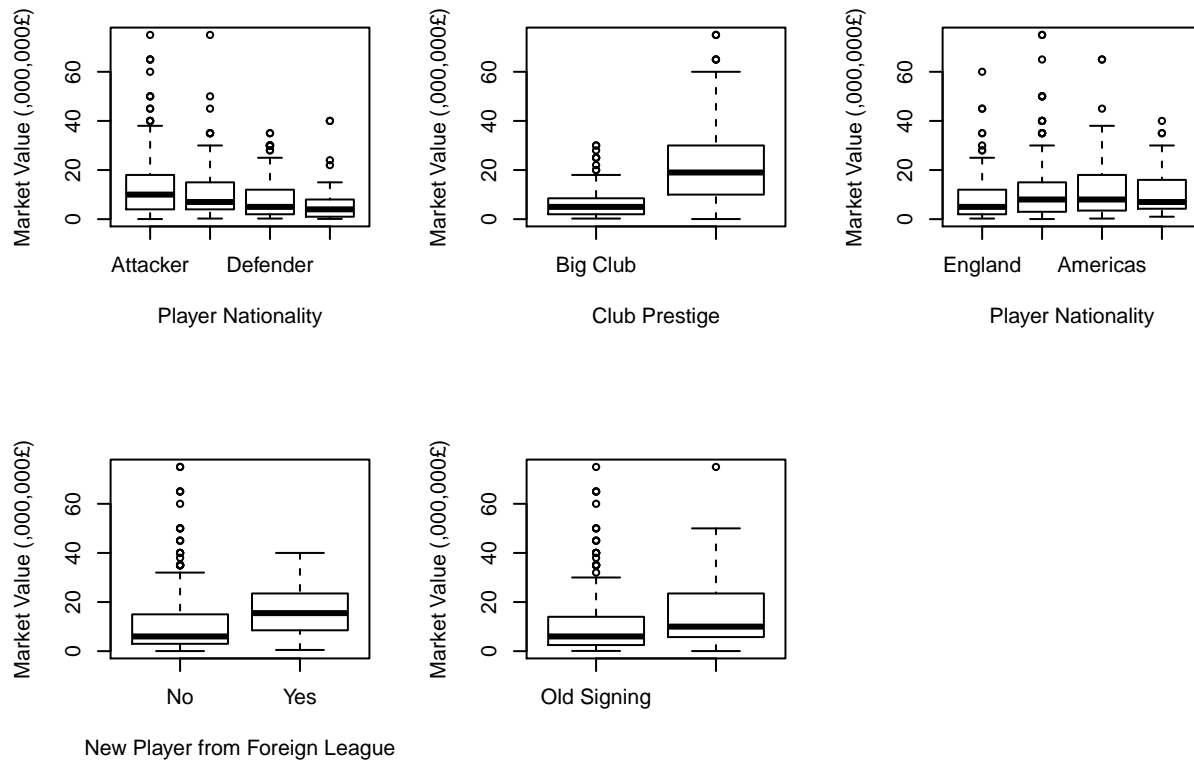
```
## [85] "nationalityNorway"          "nationalityPoland"
## [87] "nationalityPortugal"       "nationalityRomania"
## [89] "nationalityScotland"      "nationalitySenegal"
## [91] "nationalitySerbia"         "nationalitySlovenia"
## [93] "nationalitySouth Korea"    "nationalitySpain"
## [95] "nationalitySweden"         "nationalitySwitzerland"
## [97] "nationalityThe Gambia"     "nationalityTrinidad and Tobago"
## [99] "nationalityTunisia"        "nationalityUnited States"
## [101] "nationalityUruguay"        "nationalityVenezuela"
## [103] "nationalityWales"
```

```
train.index=sample(nrow(epl),nrow(epl)*0.75)
train=epl[train.index,]
test=epl[-train.index,]
```

Plots of some basic statistics.

```
#boxplots for all the categorical variables
par(mfrow=c(2,3))
#attacker=1,midfielders=2,defenders=3,goalkeepers=4
boxplot(epl$market_value~epl$position_cat,xlab='Player Nationality',ylab='Market Value (,000,000£)',names=c('Attacker','Midfielder','Defender','Goalkeeper'))
#Plays for top 6 clubs. (Arsenal,Chelsea,Liverpool,Manchester City,Manchester United,Tottenham)
boxplot(epl$market_value~epl$big_club,xlab='Club Prestige',ylab='Market Value (,000,000£)',names=c('Big 6','Other'))
#what region in the world the player is from 1=England, 2=Rest of EU, 3=Americas, 4= Rest of World
boxplot(epl$market_value~epl$region,xlab='Player Nationality',ylab='Market Value (,000,000£)',names=c('England','Rest of EU','Americas','Rest of World'))
#Used to play in a different (foreign) league
boxplot(epl$market_value~epl$new_foreign,xlab='New Player from Foreign League',ylab='Market Value (,000,000£)',names=c('New Foreign','Not New Foreign'))
#Whether or not the player is a new signing (12 month playing or less)
boxplot(epl$market_value~epl$new_signing,ylab='Market Value (,000,000£)',names=c('Old Signing','New Signing'))

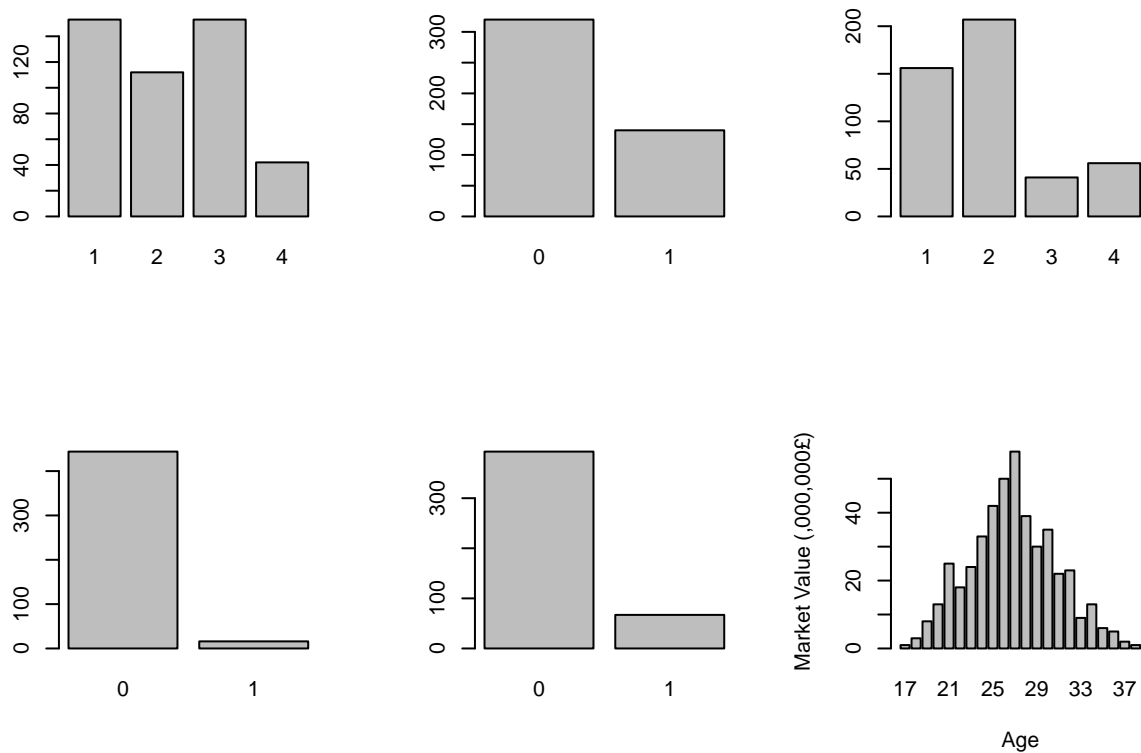
par(mfrow=c(2,3))
```



```

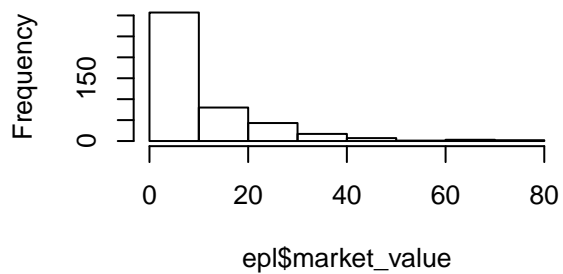
barplot(table/epl$position_cat))
barplot(table/epl$big_club))
barplot(table/epl$region))
barplot(table/epl$new_foreign))
barplot(table/epl$new_signing))
barplot(table/epl$age), xlab="Age", ylab="Market Value (,000,000£)")

```

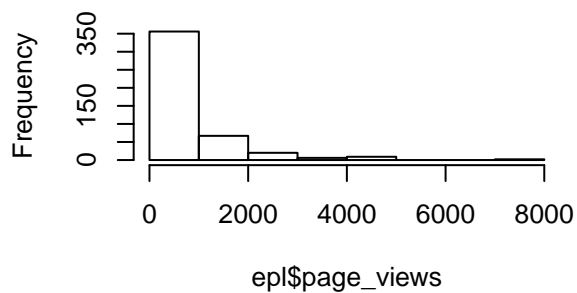


```
par(mfrow=c(2,2))
hist(epl$market_value)
hist(epl$page_views)
hist(epl$fpl_value)
hist(epl$fpl_points)
```

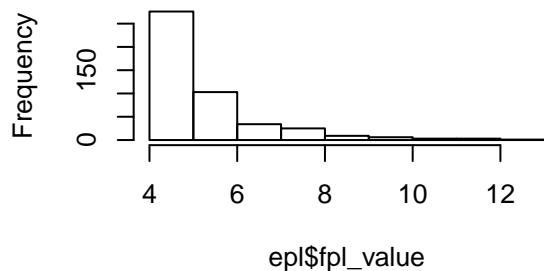
Histogram of epl\$market_value



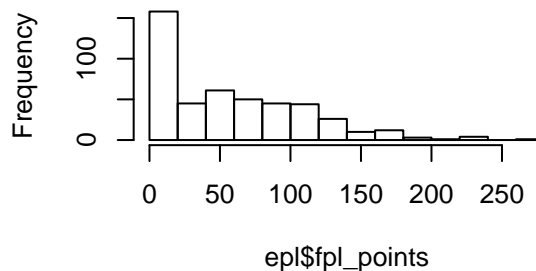
Histogram of epl\$page_views



Histogram of epl\$fpl_value



Histogram of epl\$fpl_points



```
summary(epl$big_club)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.0000 0.0000 0.0000 0.3043 1.0000 1.0000
```

```
summary(epl$region)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 1.000 1.000 2.000 1.993 2.000 4.000
```

```
summary(epl$new_foreign)
```

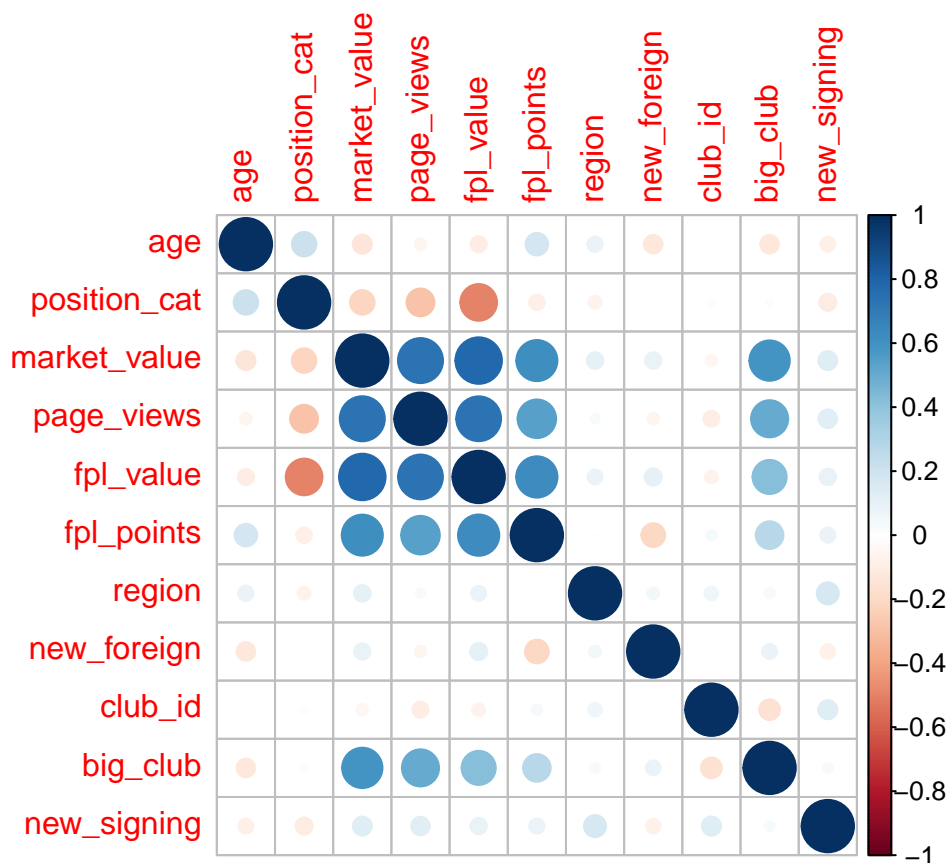
```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.00000 0.00000 0.00000 0.03478 0.00000 1.00000
```

```
summary(epl$new_signing)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.0000 0.0000 0.0000 0.1457 0.0000 1.0000
```

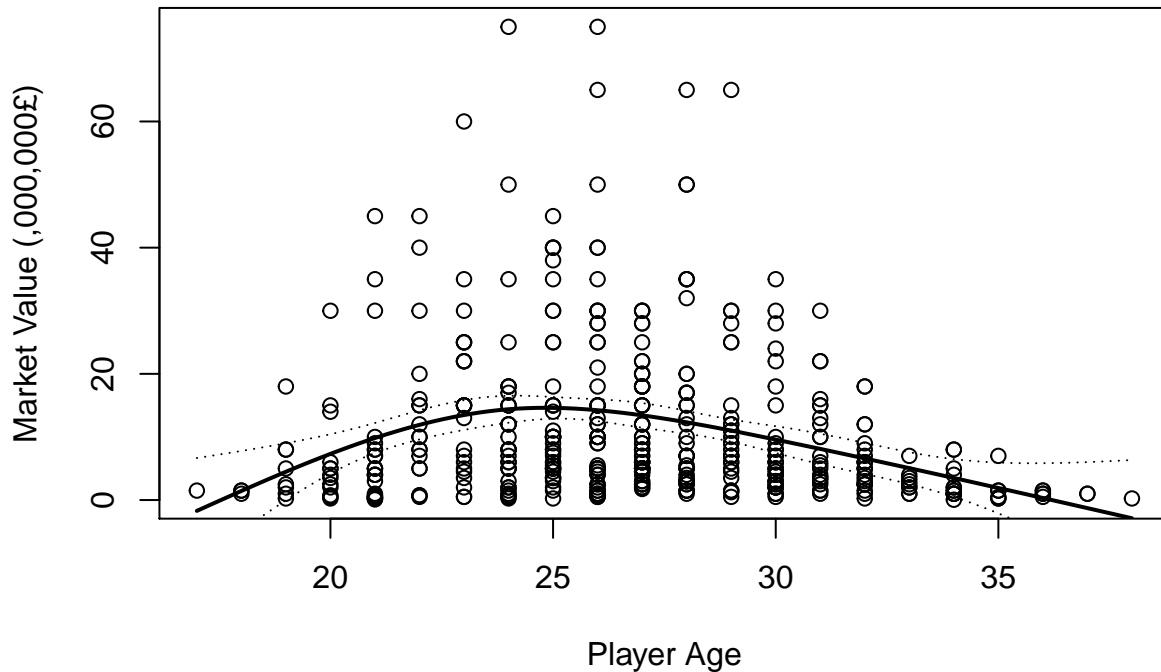
Correlation plot shows which predictors are closely related to other variables. Note page_views, fpl_values, fpl_points, and big_club has large correlations with market_value.

```
corrplot(cor(epl[c("age", "position_cat", "market_value", "page_views", "fpl_value", "fpl_points", "region", "new_foreign", "club_id", "big_club", "new_signing")]))
```



```
#plot + cubic spline for the ages column
age.spline=lm(market_value~ns(age,4),epl)
x=seq(min(epl$age),max(epl$age),length=100)
y=predict(age.spline,newdata=data.frame(age=x),se=T)
```

```
plot/epl$age,eppl$market_value,xlab='Player Age',ylab='Market Value (,000,000£)')
lines(x,y$fit,lwd=2)
lines(x,y$fit+2*y$se.fit,lty='dotted')
lines(x,y$fit-2*y$se.fit,lty='dotted')
```



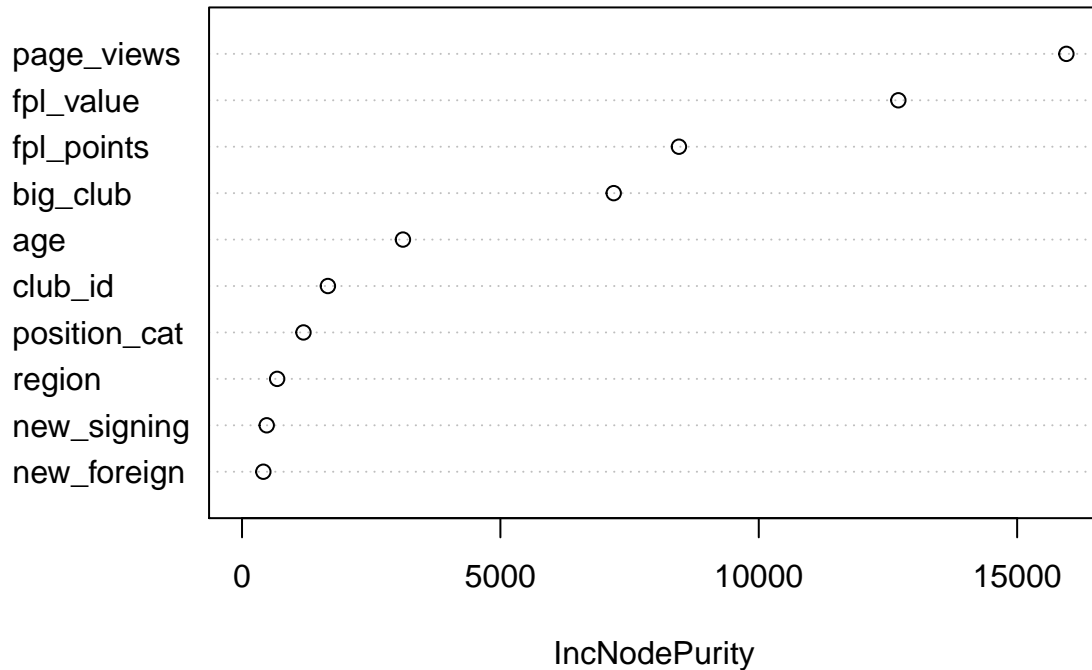
Variable importance plots shows that page_views and fpl_value is the best predictor for market_value.

```
rf_fit=randomForest(market_value~., data=train[c("age", "position_cat", "market_value", "page_views", "fpl_value", "fpl_points", "region", "new_foreign", "club_id", "big_club", "new_signing")])
(VI_F=importance(rf_fit))
```

```
##          IncNodePurity
## age          3113.9196
## position_cat  1188.9477
## page_views    15953.0689
## fpl_value     12701.2064
## fpl_points    8454.9724
## region        679.5710
## new_foreign   412.2832
## club_id       1661.5936
## big_club      7192.9767
## new_signing   477.7448
```

```
#varImp(rf_fit)
varImpPlot(rf_fit,type=2)
```

rf_fit



Our linear model with the following predictors (age, position_cat, region, big_club, new_signing, new_foreign) gives us 102 test mean square error.

```
#linear model with forward/backward selection with age as linear term
epl.lmfit1=lm(market_value~age+position_cat+region+big_club+new_signing+new_foreign,train)
summary(epl.lmfit1)
```

```
##
## Call:
## lm(formula = market_value ~ age + position_cat + region + big_club +
##     new_signing + new_foreign, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -26.942  -4.512  -0.885   3.321  49.954
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  12.06884    3.83735   3.145  0.00181 **
## age         -0.05253    0.13835  -0.380  0.70443
## position_cat -2.47154    0.52540  -4.704 3.72e-06 ***
## region       0.24769    0.54525   0.454  0.64993
## big_club     16.43036    1.14939  14.295 < 2e-16 ***
## new_signing   2.25496    1.51397   1.489  0.13731
## new_foreign   4.35135    2.77775   1.567  0.11817
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 9.592 on 338 degrees of freedom
## Multiple R-squared:  0.4275, Adjusted R-squared:  0.4173
```



```
## F-statistic: 42.06 on 6 and 338 DF, p-value: < 2.2e-16
```

```
epl.lmfit1.y = predict(epl.lmfit1, newdata=test)
mean((test$market_value-epl.lmfit1.y)^2)
```

```
## [1] 81.58968
```

We use backward and forward stepwise function to find best the best performing predictors.

```
start.model1=lm(market_value~1,data=epl)
end.model1 =lm(market_value~age+position_cat+region+big_club+new_signing+new_foreign,data=epl)

step(start.model1, scope=list(lower=start.model1,upper=end.model1),direction="forward")
```

```
## Start: AIC=2307.44
```

```
## market_value ~ 1
```

```
##
```

	Df	Sum of Sq	RSS	AIC
## + big_club	1	24312.9	44769	2109.9
## + position_cat	1	3318.5	65763	2286.8
## + age	1	1237.3	67845	2301.1
## + new_signing	1	1185.0	67897	2301.5
## + region	1	713.9	68368	2304.7
## + new_foreign	1	662.1	68420	2305.0
## <none>			69082	2307.4

```
##
```

```
## Step: AIC=2109.9
```

```
## market_value ~ big_club
```

```
##
```

	Df	Sum of Sq	RSS	AIC
## + position_cat	1	3617.8	41151	2073.1
## + new_signing	1	840.6	43928	2103.2
## + region	1	426.1	44343	2107.5
## + age	1	247.1	44522	2109.3
## <none>			44769	2109.9
## + new_foreign	1	173.9	44595	2110.1

```
##
```

```
## Step: AIC=2073.14
```

```
## market_value ~ big_club + position_cat
```

```
##
```

	Df	Sum of Sq	RSS	AIC
## + new_signing	1	514.69	40636	2069.3
## + region	1	284.80	40866	2071.9
## <none>			41151	2073.1
## + new_foreign	1	173.30	40978	2073.2
## + age	1	5.87	41145	2075.1

```
##
```

```
## Step: AIC=2069.35
```

```
## market_value ~ big_club + position_cat + new_signing
```

```
##
```

	Df	Sum of Sq	RSS	AIC
## + new_foreign	1	227.287	40409	2068.8
## <none>			40636	2069.3
## + region	1	174.446	40462	2069.4
## + age	1	1.407	40635	2071.3

```
##
```

```
## Step: AIC=2068.77
## market_value ~ big_club + position_cat + new_signing + new_foreign
##
##           Df Sum of Sq  RSS    AIC
## <none>                40409 2068.8
## + region    1    150.821 40258 2069.1
## + age       1      0.501 40409 2070.8
##
## Call:
## lm(formula = market_value ~ big_club + position_cat + new_signing +
##     new_foreign, data = epl)
##
## Coefficients:
## (Intercept)      big_club position_cat  new_signing  new_foreign
##      11.520       15.685       -2.688        3.183        3.862
step(end.model11, scope=list(lower=start.model11,upper=end.model11),direction="backward")

## Start: AIC=2071.04
## market_value ~ age + position_cat + region + big_club + new_signing +
##     new_foreign
##
##           Df Sum of Sq  RSS    AIC
## - age       1      0.8 40258 2069.1
## - region    1    151.1 40409 2070.8
## <none>                40257 2071.0
## - new_foreign 1    196.6 40454 2071.3
## - new_signing 1    448.3 40706 2074.1
## - position_cat 1   3024.8 43282 2102.4
## - big_club    1   23219.2 63477 2278.5
##
## Step: AIC=2069.05
## market_value ~ position_cat + region + big_club + new_signing +
##     new_foreign
##
##           Df Sum of Sq  RSS    AIC
## - region    1    150.8 40409 2068.8
## <none>                40258 2069.1
## - new_foreign 1    203.7 40462 2069.4
## - new_signing 1    455.0 40713 2072.2
## - position_cat 1   3206.5 43465 2102.3
## - big_club    1   23624.3 63883 2279.4
##
## Step: AIC=2068.77
## market_value ~ position_cat + big_club + new_signing + new_foreign
##
##           Df Sum of Sq  RSS    AIC
## <none>                40409 2068.8
## - new_foreign 1    227.3 40636 2069.3
## - new_signing 1    568.7 40978 2073.2
## - position_cat 1   3275.7 43685 2102.6
## - big_club    1   23754.1 64163 2279.5
##
## Call:
```

```
## lm(formula = market_value ~ position_cat + big_club + new_signing +
##     new_foreign, data = epl)
##
## Coefficients:
## (Intercept) position_cat big_club new_signing new_foreign
## 11.520 -2.688 15.685 3.183 3.862
```

Our stepwise function found the best performing model (market_value~big_club+position_cat+new_signing+new_foreign) in this small scale search. The test MSE for this model is 102.

```
#both forward and backward model selection give the same output
epl.forwardfit1=lm(market_value~big_club+position_cat+new_signing+new_foreign,data=train)
summary(epl.forwardfit1)
```

```
##
## Call:
## lm(formula = market_value ~ big_club + position_cat + new_signing +
##     new_foreign, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -27.548  -4.666  -0.880   3.352  49.920
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  11.2020     1.3142   8.524 5.11e-16 ***
## big_club     16.5001     1.1327  14.568 < 2e-16 ***
## position_cat -2.5181     0.5119  -4.919 1.36e-06 ***
## new_signing   2.4137     1.4830   1.628  0.1046
## new_foreign   4.5662     2.7320   1.671  0.0956 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 9.568 on 340 degrees of freedom
## Multiple R-squared:  0.4269, Adjusted R-squared:  0.4202
## F-statistic: 63.32 on 4 and 340 DF, p-value: < 2.2e-16
epl.forwardfit1.y = predict(epl.forwardfit1, newdata=test)
mean((test$market_value-epl.forwardfit1.y)^2)
```

```
## [1] 82.03573
```

We try a linear model with natural spline on predictor age and degree 3. Which gives us a test MSE of 83

```
#linear model with forward/backward selection with splines for age term
epl.lmfit2=lm(market_value~ns(age,3)+position_cat+region+big_club+new_signing+new_foreign,train)
summary(epl.lmfit2)
```

```
##
## Call:
## lm(formula = market_value ~ ns(age, 3) + position_cat + region +
##     big_club + new_signing + new_foreign, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -23.249  -4.870  -1.192   3.630  47.640
##
```

```
## Coefficients:
##           Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.2216     3.3795  -1.545  0.12327
## ns(age, 3)1    6.6222     2.3191   2.856  0.00456 **
## ns(age, 3)2   32.1471     7.5035   4.284 2.40e-05 ***
## ns(age, 3)3   -2.7430     3.6586  -0.750  0.45393
## position_cat -2.3963     0.4988  -4.804 2.35e-06 ***
## region       -0.2304     0.5214  -0.442  0.65884
## big_club      16.6248     1.0883  15.276 < 2e-16 ***
## new_signing    2.2380     1.4389   1.555  0.12080
## new_foreign    3.8186     2.6470   1.443  0.15006
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 9.078 on 336 degrees of freedom
## Multiple R-squared:  0.4902, Adjusted R-squared:  0.4781
## F-statistic: 40.38 on 8 and 336 DF,  p-value: < 2.2e-16

epl.lmfit2.y = predict(epl.lmfit2, newdata=test)
mean((test$market_value-epl.lmfit2.y)^2)
```

```
## [1] 71.16503
```

We do a stepwise search with natural spline included in our model. The search found us this model (market_value ~ big_club + ns(age, 3) + position_cat + new_signing). It has a test MSE of 81.

```
start.model2=lm(market_value~1,data=epl)
end.model2  =lm(market_value~ns(age,3)+position_cat+region+big_club+new_signing+new_foreign,data=epl)

step(start.model2, scope=list(lower=start.model2,upper=end.model2),direction="forward")
```

```
## Start:  AIC=2307.44
## market_value ~ 1
##
##           Df Sum of Sq  RSS    AIC
## + big_club    1   24312.9 44769 2109.9
## + ns(age, 3)   3    6293.9 62788 2269.5
## + position_cat 1    3318.5 65763 2286.8
## + new_signing  1    1185.0 67897 2301.5
## + region       1     713.9 68368 2304.7
## + new_foreign  1     662.1 68420 2305.0
## <none>                 69082 2307.4
##
## Step:  AIC=2109.9
## market_value ~ big_club
##
##           Df Sum of Sq  RSS    AIC
## + ns(age, 3)   3    5672.8 39096 2053.6
## + position_cat 1    3617.8 41151 2073.1
## + new_signing  1     840.6 43928 2103.2
## + region       1     426.1 44343 2107.5
## <none>                 44769 2109.9
## + new_foreign  1     173.9 44595 2110.1
##
## Step:  AIC=2053.57
## market_value ~ big_club + ns(age, 3)
```

```

##
##           Df Sum of Sq  RSS    AIC
## + position_cat  1   2899.15 36197 2020.1
## + new_signing   1    637.36 38459 2048.0
## <none>                                39096 2053.6
## + region        1    134.52 38962 2054.0
## + new_foreign   1     61.90 39034 2054.8
##
## Step: AIC=2020.13
## market_value ~ big_club + ns(age, 3) + position_cat
##
##           Df Sum of Sq  RSS    AIC
## + new_signing  1    411.77 35785 2016.9
## <none>                                36197 2020.1
## + new_foreign  1     83.76 36113 2021.1
## + region       1     55.32 36142 2021.4
##
## Step: AIC=2016.87
## market_value ~ big_club + ns(age, 3) + position_cat + new_signing
##
##           Df Sum of Sq  RSS    AIC
## <none>                                35785 2016.9
## + new_foreign  1   124.548 35661 2017.3
## + region       1    15.495 35770 2018.7
##
## Call:
## lm(formula = market_value ~ big_club + ns(age, 3) + position_cat +
##     new_signing, data = epl)
##
## Coefficients:
## (Intercept)      big_club  ns(age, 3)1  ns(age, 3)2  ns(age, 3)3
##      -4.657       15.904        7.587       29.399       -4.010
## position_cat  new_signing
##      -2.497         2.708
step(end.model2, scope=list(lower=start.model2,upper=end.model2),direction="backward")

## Start: AIC=2019.14
## market_value ~ ns(age, 3) + position_cat + region + big_club +
##     new_signing + new_foreign
##
##           Df Sum of Sq  RSS    AIC
## - region        1     9.7 35661 2017.3
## - new_foreign    1   118.7 35770 2018.7
## <none>                                35651 2019.1
## - new_signing    1   414.2 36065 2022.5
## - position_cat   1   2658.9 38310 2050.2
## - ns(age, 3)      3   4607.3 40258 2069.1
## - big_club        1  23718.9 59370 2251.8
##
## Step: AIC=2017.26
## market_value ~ ns(age, 3) + position_cat + big_club + new_signing +
##     new_foreign
##

```

```

##           Df Sum of Sq  RSS    AIC
## - new_foreign   1      124.5 35785 2016.9
## <none>                    35661 2017.3
## - new_signing   1      452.6 36113 2021.1
## - position_cat  1     2690.0 38351 2048.7
## - ns(age, 3)    3     4748.4 40409 2068.8
## - big_club      1    23818.5 59479 2250.6
##
## Step: AIC=2016.87
## market_value ~ ns(age, 3) + position_cat + big_club + new_signing
##
##           Df Sum of Sq  RSS    AIC
## <none>                    35785 2016.9
## - new_signing   1      411.8 36197 2020.1
## - position_cat  1     2673.6 38459 2048.0
## - ns(age, 3)    3     4851.2 40636 2069.3
## - big_club      1    24168.2 59953 2252.2
##
## Call:
## lm(formula = market_value ~ ns(age, 3) + position_cat + big_club +
##     new_signing, data = epl)
##
## Coefficients:
## (Intercept)  ns(age, 3)1  ns(age, 3)2  ns(age, 3)3  position_cat
##      -4.657      7.587      29.399      -4.010      -2.497
##      big_club  new_signing
##      15.904      2.708

```

#both forward and backward model selection give the same output

```

epl.forwardfit2=lm(market_value~big_club+ns(age,3)+position_cat+new_signing,data=train)
summary(epl.forwardfit2)

```

```

##
## Call:
## lm(formula = market_value ~ big_club + ns(age, 3) + position_cat +
##     new_signing, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -23.026  -4.917  -1.116   3.692  47.527
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.3566     3.3393  -1.604   0.1096
## big_club     16.7423     1.0843  15.441 < 2e-16 ***
## ns(age, 3)1    5.9764     2.2646   2.639   0.0087 **
## ns(age, 3)2   31.9832     7.4267   4.307 2.18e-05 ***
## ns(age, 3)3   -2.9050     3.6536  -0.795   0.4271
## position_cat  -2.3944     0.4986  -4.803 2.36e-06 ***
## new_signing    1.9004     1.4104   1.347   0.1788
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##

```

```
## Residual standard error: 9.08 on 338 degrees of freedom
## Multiple R-squared:  0.4868, Adjusted R-squared:  0.4777
## F-statistic: 53.44 on 6 and 338 DF,  p-value: < 2.2e-16
```

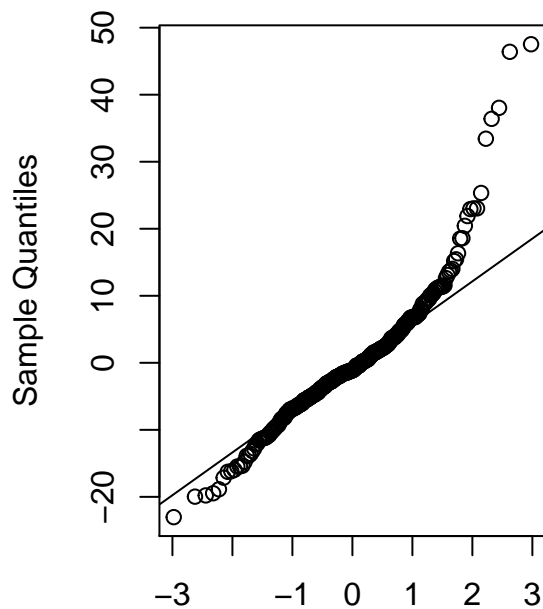
```
epl.forwardfit2.y = predict(epl.forwardfit2, newdata=test)
mean((test$market_value-epl.forwardfit2.y)^2)
```

```
## [1] 70.26386
```

The Normal QQ plot of the model residue is sorta linear. The error is almost gaussian.

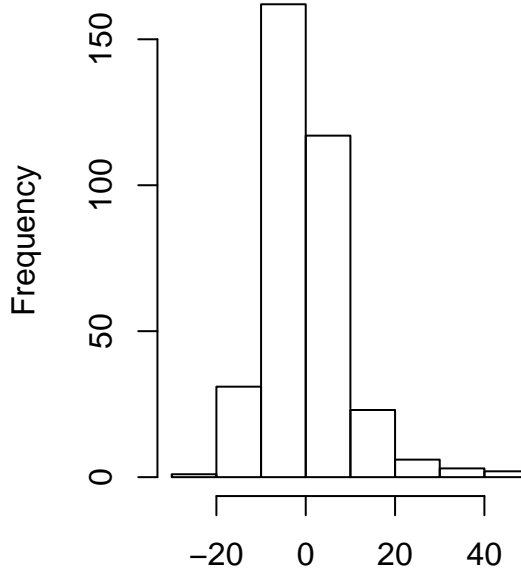
```
#checking normality of the residuals
par(mfrow=c(1,2))
qqnorm(epl.forwardfit2$resid)
qqline(epl.forwardfit2$resid)
hist(resid(epl.forwardfit2))
```

Normal Q-Q Plot



Theoretical Quantiles

Histogram of resid(epl.forwardfit2)



resid(epl.forwardfit2)

We try one last linear model with natural spline and all the one-hot predictors. We use the forward/backward stepwise search for predictors. The best performing AIC model is (market_value ~ fpl_value + page_views + ns(age, 3) + big_club + fpl_points + nationalityBelgium + positionDM + nationalityNorway + clubManchester+City + nationalityFrance + positionCF + clubChelsea + positionSS + clubSouthampton + clubBurnley + nationalityCzech Republic + clubLiverpool + nationalityEcuador + new_foreign + positionRW + positionLW)

It gives us the best test MSE with 30.

```
start.model3=lm(market_value~1,data=epl)
```

```
end.model3 =lm(market_value~ns(age,3) + .,data=epl)
```

```
#step(start.model3, scope=list(lower=start.model3,upper=end.model3),direction="forward")
```

```
#step(end.model3, scope=list(lower=start.model3,upper=end.model3),direction="backward")
```

```
all_pred_step <- step(start.model3, scope=list(lower=start.model3,upper=end.model3), direction="both")
```

```

## Start:  AIC=2307.44
## market_value ~ 1
##
##
Df Sum of Sq  RSS   AIC
## + fpl_value      1    43046 26036 1860.6
## + page_views     1    37782 31300 1945.3
## + fpl_points      1    26130 42952 2090.8
## + big_club        1    24313 44769 2109.9
## + `clubManchester+City` 1     6168 62913 2266.4
## + clubChelsea     1     5799 63283 2269.1
## + ns(age, 3)       3     6294 62788 2269.5
## + nationalityBelgium 1     4093 64989 2281.3
## + position_cat    1     3318 65763 2286.8
## + clubTottenham   1     2999 66083 2289.0
## + clubHuddersfield 1     2519 66563 2292.3
## + `clubManchester+United` 1     2406 66676 2293.1
## + clubArsenal      1     2215 66867 2294.4
## + nationalityEngland 1     1715 67367 2297.9
## + `clubBrighton+and+Hove` 1     1670 67412 2298.2
## + nationalityBrazil 1     1418 67664 2299.9
## + nationalityChile  1     1304 67778 2300.7
## + nationalityFrance 1     1279 67803 2300.8
## + age              1     1237 67845 2301.1
## + new_signing      1     1185 67897 2301.5
## + nationalitySpain  1         996 68086 2302.8
## + clubBournemouth  1         951 68131 2303.1
## + clubBurnley       1         935 68147 2303.2
## + clubWatford        1         869 68213 2303.6
## + clubLiverpool     1         803 68279 2304.1
## + clubSwansea        1         789 68292 2304.2
## + `clubNewcastle+United` 1         746 68336 2304.4
## + region            1         714 68368 2304.7
## + nationalityScotland 1         673 68409 2304.9
## + positionGK         1         664 68418 2305.0
## + new_foreign        1         662 68420 2305.0
## + nationalityIreland 1         659 68422 2305.0
## + `clubWest+Brom`    1         643 68439 2305.1
## + positionCF         1         596 68486 2305.4
## + nationalityArmenia 1         576 68506 2305.6
## + positionCB         1         439 68643 2306.5
## + `clubStoke+City`   1         409 68673 2306.7
## + positionLM         1         402 68680 2306.8
## + positionRB         1         395 68686 2306.8
## + <none>              69082 2307.4
## + `nationalityNorthern Ireland` 1         293 68789 2307.5
## + positionLB         1         281 68801 2307.6
## + nationalityAustralia 1         268 68814 2307.7
## + `clubCrystal+Palace` 1         239 68842 2307.8
## + positionLW         1         201 68881 2308.1
## + nationalityKenya    1         196 68886 2308.1
## + nationalityPoland   1         171 68911 2308.3
## + nationalityIsrael   1         168 68914 2308.3
## + nationalityJamaica  1         164 68918 2308.3
## + nationalityAustria  1         159 68923 2308.4

```


## + club_id	1	149	68932	2308.4
## + `clubLeicester+City`	1	143	68939	2308.5
## + nationalityWales	1	135	68946	2308.5
## + nationalityGermany	1	126	68956	2308.6
## + nationalityFinland	1	116	68965	2308.7
## + `clubWest+Ham`	1	112	68969	2308.7
## + nationalitySlovenia	1	111	68971	2308.7
## + `nationalityTrinidad and Tobago`	1	108	68974	2308.7
## + nationalityMali	1	106	68975	2308.7
## + nationalityTunisia	1	101	68981	2308.8
## + `nationalityUnited States`	1	99	68983	2308.8
## + `nationalityCzech Republic`	1	92	68990	2308.8
## + `nationalityCote d'Ivoire`	1	90	68992	2308.8
## + nationalityCuracao	1	82	69000	2308.9
## + nationalityGreece	1	82	69000	2308.9
## + nationalitySenegal	1	69	69013	2309.0
## + positionDM	1	68	69013	2309.0
## + nationalityCanada	1	65	69017	2309.0
## + nationalityRomania	1	65	69017	2309.0
## + `nationalityThe Gambia`	1	65	69017	2309.0
## + nationalityEstonia	1	57	69025	2309.1
## + nationalityUruguay	1	57	69025	2309.1
## + nationalityArgentina	1	54	69027	2309.1
## + nationalityJapan	1	51	69031	2309.1
## + positionRW	1	47	69035	2309.1
## + nationalitySwitzerland	1	45	69036	2309.1
## + nationalitySerbia	1	45	69037	2309.1
## + nationalityNetherlands	1	44	69038	2309.1
## + nationalityBermuda	1	36	69045	2309.2
## + nationalityCroatia	1	36	69046	2309.2
## + nationalityEcuador	1	29	69053	2309.2
## + nationalityPortugal	1	29	69053	2309.2
## + nationalityGhana	1	27	69054	2309.3
## + clubEverton	1	26	69056	2309.3
## + clubSouthampton	1	25	69056	2309.3
## + nationalityNigeria	1	24	69058	2309.3
## + nationalityColombia	1	16	69066	2309.3
## + nationalityVenezuela	1	16	69066	2309.3
## + nationalityIceland	1	15	69067	2309.3
## + nationalityEgypt	1	12	69070	2309.4
## + `nationalitySouth Korea`	1	10	69072	2309.4
## + nationalityNorway	1	9	69073	2309.4
## + nationalitySweden	1	7	69075	2309.4
## + `nationalityCongo DR`	1	3	69078	2309.4
## + nationalityMorocco	1	3	69078	2309.4
## + nationalityDenmark	1	2	69080	2309.4
## + nationalityCameroon	1	1	69080	2309.4
## + nationalityItaly	1	1	69081	2309.4
## + `nationalityNew Zealand`	1	1	69081	2309.4
## + positionRM	1	1	69081	2309.4
## + positionSS	1	1	69081	2309.4
## + nationalityBosnia	1	0	69081	2309.4
## + positionCM	1	0	69081	2309.4
##				

```
## Step: AIC=1860.57
## market_value ~ fpl_value
##
##
```

	Df	Sum of Sq	RSS	AIC
## + big_club	1	5618	20418	1750.8
## + page_views	1	3895	22142	1788.0
## + positionCF	1	2918	23118	1807.9
## + position_cat	1	2598	23438	1814.2
## + fpl_points	1	1757	24279	1830.4
## + clubChelsea	1	1709	24328	1831.3
## + positionDM	1	1499	24537	1835.3
## + ns(age, 3)	3	1550	24486	1838.3
## + `clubManchester+City`	1	1107	24929	1842.6
## + `clubManchester+United`	1	913	25123	1846.2
## + nationalityFrance	1	820	25216	1847.8
## + nationalityEngland	1	577	25459	1852.2
## + positionCB	1	535	25501	1853.0
## + clubHuddersfield	1	507	25529	1853.5
## + nationalityBelgium	1	492	25544	1853.8
## + clubTottenham	1	488	25549	1853.9
## + clubBournemouth	1	430	25606	1854.9
## + positionSS	1	324	25712	1856.8
## + nationalityNorway	1	318	25718	1856.9
## + nationalityBrazil	1	305	25731	1857.1
## + nationalityKenya	1	296	25740	1857.3
## + positionRW	1	274	25762	1857.7
## + clubBurnley	1	252	25784	1858.1
## + `clubBrighton+and+Hove`	1	236	25801	1858.4
## + age	1	230	25806	1858.5
## + nationalityScotland	1	217	25819	1858.7
## + `clubWest+Brom`	1	209	25827	1858.9
## + new_signing	1	196	25840	1859.1
## + nationalitySerbia	1	194	25843	1859.1
## + positionLW	1	193	25843	1859.1
## + clubArsenal	1	186	25850	1859.3
## + positionGK	1	173	25863	1859.5
## + positionCM	1	151	25885	1859.9
## + positionLM	1	148	25888	1859.9
## + nationalitySpain	1	144	25892	1860.0
## + clubSwansea	1	135	25901	1860.2
## + nationalityGermany	1	132	25904	1860.2
## + nationalitySwitzerland	1	129	25907	1860.3
## + clubWatford	1	123	25913	1860.4
## <none>			26036	1860.6
## + region	1	93	25943	1860.9
## + nationalityIceland	1	89	25947	1861.0
## + `clubLeicester+City`	1	74	25962	1861.2
## + nationalityEcuador	1	71	25965	1861.3
## + clubLiverpool	1	61	25975	1861.5
## + nationalityIreland	1	61	25976	1861.5
## + `nationalityNorthern Ireland`	1	60	25976	1861.5
## + `nationalityCzech Republic`	1	58	25978	1861.5
## + `nationalityTrinidad and Tobago`	1	51	25985	1861.7
## + `clubStoke+City`	1	51	25985	1861.7

## + clubEverton	1	42	25995	1861.8
## + `nationalityCongo DR`	1	38	25998	1861.9
## + nationalityIsrael	1	35	26002	1862.0
## + nationalityGreece	1	34	26002	1862.0
## + nationalityArmenia	1	32	26004	1862.0
## + nationalityCroatia	1	31	26005	1862.0
## + nationalityJapan	1	26	26010	1862.1
## + nationalityChile	1	26	26010	1862.1
## + nationalitySweden	1	25	26011	1862.1
## + nationalityNigeria	1	24	26012	1862.1
## + nationalityArgentina	1	24	26012	1862.2
## + nationalityCanada	1	23	26013	1862.2
## + `nationalityThe Gambia`	1	23	26013	1862.2
## + `clubCrystal+Palace`	1	20	26017	1862.2
## + nationalityCameroon	1	19	26017	1862.2
## + `clubNewcastle+United`	1	18	26018	1862.2
## + `clubWest+Ham`	1	15	26022	1862.3
## + nationalityItaly	1	13	26023	1862.3
## + nationalityVenezuela	1	13	26023	1862.3
## + nationalityNetherlands	1	12	26024	1862.4
## + positionRM	1	12	26024	1862.4
## + nationalityTunisia	1	10	26026	1862.4
## + nationalityMali	1	10	26026	1862.4
## + nationalitySenegal	1	10	26026	1862.4
## + new_foreign	1	10	26026	1862.4
## + positionLB	1	9	26027	1862.4
## + nationalityPortugal	1	9	26028	1862.4
## + nationalityGhana	1	8	26028	1862.4
## + nationalityBermuda	1	8	26028	1862.4
## + nationalityAustralia	1	7	26029	1862.4
## + nationalityBosnia	1	7	26029	1862.4
## + nationalityWales	1	6	26030	1862.5
## + nationalityMorocco	1	6	26031	1862.5
## + clubSouthampton	1	5	26031	1862.5
## + nationalityCuracao	1	5	26031	1862.5
## + `nationalityNew Zealand`	1	5	26031	1862.5
## + positionRB	1	5	26032	1862.5
## + `nationalitySouth Korea`	1	3	26033	1862.5
## + nationalityPoland	1	2	26035	1862.5
## + nationalityRomania	1	1	26035	1862.5
## + nationalityDenmark	1	1	26035	1862.5
## + nationalityEgypt	1	1	26035	1862.5
## + nationalityColombia	1	1	26036	1862.6
## + nationalityAustria	1	1	26036	1862.6
## + nationalityEstonia	1	1	26036	1862.6
## + nationalityUruguay	1	1	26036	1862.6
## + nationalityJamaica	1	0	26036	1862.6
## + nationalityFinland	1	0	26036	1862.6
## + club_id	1	0	26036	1862.6
## + `nationalityUnited States`	1	0	26036	1862.6
## + `nationalityCote d'Ivoire`	1	0	26036	1862.6
## + nationalitySlovenia	1	0	26036	1862.6
## - fpl_value	1	43046	69082	2307.4
##				

```

## Step: AIC=1750.75
## market_value ~ fpl_value + big_club
##
##
## Df Sum of Sq RSS AIC
## + ns(age, 3) 3 1980.8 18437 1709.8
## + page_views 1 1692.8 18725 1712.9
## + positionCF 1 1666.4 18752 1713.6
## + fpl_points 1 1623.0 18795 1714.7
## + position_cat 1 953.1 19465 1730.8
## + positionDM 1 860.6 19557 1732.9
## + clubLiverpool 1 469.3 19949 1742.1
## + clubChelsea 1 449.0 19969 1742.5
## + nationalityFrance 1 427.1 19991 1743.0
## + nationalityEngland 1 307.9 20110 1745.8
## + nationalityBelgium 1 259.7 20158 1746.9
## + positionCB 1 241.2 20177 1747.3
## + new_signing 1 212.9 20205 1747.9
## + `clubManchester+City` 1 207.4 20211 1748.1
## + clubSouthampton 1 190.1 20228 1748.5
## + clubArsenal 1 190.0 20228 1748.5
## + clubHuddersfield 1 184.3 20234 1748.6
## + nationalityNorway 1 163.8 20254 1749.0
## + nationalitySwitzerland 1 132.4 20286 1749.8
## + positionCM 1 131.2 20287 1749.8
## + club_id 1 127.6 20290 1749.9
## + positionSS 1 125.8 20292 1749.9
## + nationalityKenya 1 117.9 20300 1750.1
## + positionLW 1 113.9 20304 1750.2
## + `nationalityCzech Republic` 1 105.5 20313 1750.4
## + nationalityEcuador 1 104.9 20313 1750.4
## + clubBournemouth 1 94.1 20324 1750.6
## + <none> 20418 1750.8
## + region 1 86.7 20331 1750.8
## + positionLM 1 85.0 20333 1750.8
## + age 1 66.9 20351 1751.2
## + clubEverton 1 62.0 20356 1751.4
## + nationalityEstonia 1 60.2 20358 1751.4
## + nationalitySenegal 1 59.1 20359 1751.4
## + `clubBrighton+and+Hove` 1 54.8 20363 1751.5
## + `clubWest+Ham` 1 54.7 20363 1751.5
## + clubBurnley 1 53.9 20364 1751.5
## + nationalityNigeria 1 53.7 20364 1751.5
## + nationalityColombia 1 52.2 20366 1751.6
## + nationalitySerbia 1 51.0 20367 1751.6
## + nationalityScotland 1 48.6 20369 1751.7
## + positionRW 1 46.9 20371 1751.7
## + nationalitySpain 1 40.5 20378 1751.8
## + `clubCrystal+Palace` 1 32.9 20385 1752.0
## + `nationalityTrinidad and Tobago` 1 26.7 20391 1752.2
## + `clubWest+Brom` 1 24.6 20393 1752.2
## + positionGK 1 23.3 20395 1752.2
## + positionRM 1 23.2 20395 1752.2
## + nationalityGermany 1 22.9 20395 1752.2
## + `nationalityNew Zealand` 1 17.7 20400 1752.4

```

## + `clubNewcastle+United`	1	15.1	20403	1752.4
## + nationalityGreece	1	14.5	20403	1752.4
## + `clubLeicester+City`	1	13.8	20404	1752.4
## + nationalityIceland	1	12.7	20405	1752.5
## + `clubManchester+United`	1	12.6	20405	1752.5
## + nationalityEgypt	1	12.0	20406	1752.5
## + nationalityIsrael	1	12.0	20406	1752.5
## + nationalitySweden	1	10.8	20407	1752.5
## + `nationalityNorthern Ireland`	1	9.2	20409	1752.5
## + nationalityCameroon	1	9.1	20409	1752.5
## + `clubStoke+City`	1	8.7	20409	1752.6
## + nationalityArmenia	1	8.5	20409	1752.6
## + nationalityBrazil	1	8.2	20410	1752.6
## + nationalityCanada	1	7.9	20410	1752.6
## + `nationalityThe Gambia`	1	7.9	20410	1752.6
## + nationalityGhana	1	6.2	20412	1752.6
## + nationalityWales	1	5.9	20412	1752.6
## + nationalityItaly	1	5.2	20413	1752.6
## + nationalityChile	1	4.1	20414	1752.7
## + `nationalityCote d'Ivoire`	1	3.8	20414	1752.7
## + nationalityNetherlands	1	3.6	20414	1752.7
## + nationalityJapan	1	3.4	20415	1752.7
## + nationalityAustria	1	3.4	20415	1752.7
## + nationalityTunisia	1	3.3	20415	1752.7
## + nationalityDenmark	1	3.2	20415	1752.7
## + `nationalityUnited States`	1	2.8	20415	1752.7
## + nationalityArgentina	1	2.3	20416	1752.7
## + nationalityMorocco	1	1.9	20416	1752.7
## + clubWatford	1	1.8	20416	1752.7
## + `nationalitySouth Korea`	1	1.7	20416	1752.7
## + clubSwansea	1	1.6	20416	1752.7
## + nationalityPoland	1	1.4	20417	1752.7
## + nationalityJamaica	1	0.9	20417	1752.7
## + positionLB	1	0.8	20417	1752.7
## + nationalityCuracao	1	0.7	20417	1752.7
## + nationalityBermuda	1	0.7	20417	1752.7
## + nationalityMali	1	0.6	20417	1752.7
## + clubTottenham	1	0.5	20417	1752.7
## + nationalityPortugal	1	0.5	20417	1752.7
## + nationalityUruguay	1	0.5	20418	1752.7
## + nationalitySlovenia	1	0.4	20418	1752.7
## + positionRB	1	0.2	20418	1752.8
## + nationalityFinland	1	0.2	20418	1752.8
## + `nationalityCongo DR`	1	0.1	20418	1752.8
## + new_foreign	1	0.1	20418	1752.8
## + nationalityVenezuela	1	0.1	20418	1752.8
## + nationalityRomania	1	0.0	20418	1752.8
## + nationalityCroatia	1	0.0	20418	1752.8
## + nationalityAustralia	1	0.0	20418	1752.8
## + nationalityIreland	1	0.0	20418	1752.8
## + nationalityBosnia	1	0.0	20418	1752.8
## - big_club	1	5618.2	26036	1860.6
## - fpl_value	1	24350.9	44769	2109.9
##				

```
## Step: AIC=1709.81
## market_value ~ fpl_value + big_club + ns(age, 3)
##
##
```

	Df	Sum of Sq	RSS	AIC
## + page_views	1	2341.4	16096	1649.3
## + fpl_points	1	1953.2	16484	1660.3
## + positionCF	1	1345.2	17092	1677.0
## + position_cat	1	961.1	17476	1687.2
## + positionDM	1	713.0	17724	1693.7
## + clubLiverpool	1	429.3	18008	1701.0
## + clubChelsea	1	421.7	18016	1701.2
## + `clubManchester+City`	1	362.4	18075	1702.7
## + clubHuddersfield	1	313.1	18124	1703.9
## + nationalityFrance	1	301.1	18136	1704.2
## + clubArsenal	1	289.2	18148	1704.5
## + nationalityBelgium	1	201.1	18236	1706.8
## + nationalityNorway	1	198.4	18239	1706.8
## + club_id	1	185.0	18252	1707.2
## + new_signing	1	171.0	18266	1707.5
## + clubSouthampton	1	169.9	18267	1707.6
## + clubEverton	1	161.2	18276	1707.8
## + positionCB	1	158.8	18278	1707.8
## + nationalityEngland	1	135.8	18301	1708.4
## + positionCM	1	128.1	18309	1708.6
## + nationalitySwitzerland	1	126.4	18311	1708.7
## + positionSS	1	117.9	18319	1708.9
## + positionRW	1	110.8	18326	1709.0
## + nationalityEcuador	1	108.3	18329	1709.1
## + clubBurnley	1	106.3	18331	1709.2
## + positionGK	1	100.0	18337	1709.3
## + `nationalityCzech Republic`	1	82.1	18355	1709.8
## <none>			18437	1709.8
## + `clubBrighton+and+Hove`	1	78.3	18359	1709.9
## + clubBournemouth	1	76.7	18361	1709.9
## + nationalityColombia	1	73.0	18364	1710.0
## + nationalityKenya	1	71.4	18366	1710.0
## + positionLW	1	60.7	18377	1710.3
## + nationalityScotland	1	59.8	18377	1710.3
## + positionRM	1	58.0	18379	1710.4
## + positionLM	1	57.7	18380	1710.4
## + `nationalityTrinidad and Tobago`	1	51.6	18386	1710.5
## + nationalityEstonia	1	50.9	18386	1710.5
## + `clubWest+Ham`	1	46.6	18391	1710.7
## + nationalitySerbia	1	44.5	18393	1710.7
## + `clubStoke+City`	1	43.6	18394	1710.7
## + nationalityPoland	1	40.1	18397	1710.8
## + `clubCrystal+Palace`	1	27.4	18410	1711.1
## + nationalityIceland	1	27.2	18410	1711.1
## + `clubLeicester+City`	1	26.9	18410	1711.1
## + nationalitySenegal	1	26.7	18410	1711.2
## + nationalityBrazil	1	26.3	18411	1711.2
## + nationalityChile	1	25.6	18412	1711.2
## + nationalityEgypt	1	23.0	18414	1711.2
## + nationalityItaly	1	22.7	18414	1711.2

```

## + `clubManchester+United`      1      22.2 18415 1711.3
## + nationalitySpain              1      21.7 18416 1711.3
## + nationalityNetherlands        1      21.5 18416 1711.3
## + `nationalityThe Gambia`      1      21.3 18416 1711.3
## + region                        1      19.5 18418 1711.3
## + nationalityNigeria            1      19.4 18418 1711.3
## + `nationalityNew Zealand`     1      16.0 18421 1711.4
## + nationalityCanada             1      13.7 18423 1711.5
## + nationalityIsrael             1      11.5 18426 1711.5
## + nationalityArgentina          1      11.1 18426 1711.5
## + `nationalitySouth Korea`     1       8.3 18429 1711.6
## + nationalityJamaica            1       8.0 18429 1711.6
## + `nationalityCongo DR`        1       7.4 18430 1711.6
## + positionLB                    1       7.4 18430 1711.6
## + nationalityArmenia            1       7.2 18430 1711.6
## + nationalityCuracao           1       6.5 18431 1711.7
## + nationalityMali               1       6.2 18431 1711.7
## + new_foreign                   1       6.0 18431 1711.7
## + nationalityUruguay            1       6.0 18431 1711.7
## + nationalityBermuda            1       5.5 18432 1711.7
## + nationalityAustria            1       4.4 18433 1711.7
## + nationalityFinland            1       4.0 18433 1711.7
## + nationalitySlovenia           1       3.9 18433 1711.7
## + clubTottenham                1       3.8 18433 1711.7
## + nationalityAustralia          1       3.5 18434 1711.7
## + nationalitySweden             1       3.1 18434 1711.7
## + nationalityDenmark            1       2.8 18434 1711.7
## + clubSwansea                  1       2.6 18435 1711.8
## + `nationalityUnited States`   1       2.3 18435 1711.8
## + nationalityTunisia            1       2.3 18435 1711.8
## + nationalityJapan              1       2.2 18435 1711.8
## + `nationalityCote d'Ivoire`   1       1.8 18435 1711.8
## + nationalityCameroon           1       1.7 18435 1711.8
## + nationalityPortugal           1       1.7 18435 1711.8
## + nationalityCroatia            1       1.7 18436 1711.8
## + `clubWest+Brom`              1       1.6 18436 1711.8
## + nationalityMorocco            1       1.6 18436 1711.8
## + nationalityGermany            1       1.6 18436 1711.8
## + clubWatford                  1       1.4 18436 1711.8
## + nationalityGreece             1       1.3 18436 1711.8
## + nationalityBosnia             1       1.1 18436 1711.8
## + nationalityIreland            1       1.0 18436 1711.8
## + nationalityVenezuela          1       0.6 18437 1711.8
## + nationalityGhana              1       0.4 18437 1711.8
## + nationalityWales              1       0.3 18437 1711.8
## + nationalityRomania            1       0.3 18437 1711.8
## + `nationalityNorthern Ireland` 1       0.2 18437 1711.8
## + `clubNewcastle+United`      1       0.2 18437 1711.8
## + positionRB                    1       0.0 18437 1711.8
## - ns(age, 3)                    3    1980.8 20418 1750.8
## - big_club                      1    6049.0 24486 1838.3
## - fpl_value                     1   20658.9 39096 2053.6
##
## Step:  AIC=1649.34

```

```
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views
##
##
## Df Sum of Sq RSS AIC
## + fpl_points 1 1355.3 14740 1610.9
## + positionCF 1 1220.1 14876 1615.1
## + position_cat 1 845.0 15251 1626.5
## + `clubManchester+City` 1 591.3 15504 1634.1
## + positionDM 1 435.6 15660 1638.7
## + positionSS 1 367.5 15728 1640.7
## + nationalityBelgium 1 341.5 15754 1641.5
## + clubLiverpool 1 320.7 15775 1642.1
## + clubChelsea 1 282.3 15814 1643.2
## + clubArsenal 1 251.9 15844 1644.1
## + club_id 1 229.9 15866 1644.7
## + clubHuddersfield 1 225.4 15870 1644.8
## + nationalityEngland 1 208.2 15888 1645.3
## + clubSouthampton 1 189.7 15906 1645.9
## + nationalityFrance 1 177.7 15918 1646.2
## + positionCB 1 164.1 15932 1646.6
## + nationalityNorway 1 150.1 15946 1647.0
## + nationalityEcuador 1 96.4 15999 1648.6
## + nationalitySwitzerland 1 88.9 16007 1648.8
## + positionRM 1 80.1 16016 1649.0
## + positionGK 1 80.0 16016 1649.0
## + `nationalityCzech Republic` 1 76.7 16019 1649.1
## + clubBournemouth 1 76.0 16020 1649.2
## + clubBurnley 1 74.8 16021 1649.2
## + new_signing 1 73.2 16023 1649.2
## <none> 16096 1649.3
## + new_foreign 1 62.4 16033 1649.5
## + nationalityItaly 1 60.4 16035 1649.6
## + nationalityEstonia 1 60.3 16035 1649.6
## + nationalityKenya 1 59.2 16037 1649.6
## + clubEverton 1 58.5 16037 1649.7
## + nationalityColombia 1 55.5 16040 1649.8
## + positionCM 1 53.3 16042 1649.8
## + `clubWest+Ham` 1 52.6 16043 1649.8
## + nationalityPoland 1 52.4 16043 1649.8
## + nationalityScotland 1 51.5 16044 1649.9
## + `clubBrighton+and+Hove` 1 49.8 16046 1649.9
## + nationalitySerbia 1 47.5 16048 1650.0
## + nationalityArgentina 1 42.3 16054 1650.1
## + nationalityNigeria 1 41.2 16054 1650.2
## + positionLM 1 38.7 16057 1650.2
## + region 1 37.0 16059 1650.3
## + nationalityChile 1 35.7 16060 1650.3
## + `nationalityTrinidad and Tobago` 1 34.8 16061 1650.3
## + positionRW 1 34.4 16061 1650.4
## + `clubManchester+United` 1 33.1 16063 1650.4
## + `clubCrystal+Palace` 1 32.8 16063 1650.4
## + positionLW 1 32.8 16063 1650.4
## + nationalityBrazil 1 28.9 16067 1650.5
## + `clubStoke+City` 1 27.7 16068 1650.5
## + nationalitySenegal 1 27.5 16068 1650.5
```



```

## + `nationalityThe Gambia`      1      24.1 16072 1650.7
## + nationalityPortugal            1      22.1 16074 1650.7
## + `nationalityNew Zealand`      1      17.9 16078 1650.8
## + nationalitySpain               1      13.8 16082 1650.9
## + clubTottenham                 1      12.8 16083 1651.0
## + `nationalityCote d'Ivoire`    1      12.6 16083 1651.0
## + `nationalitySouth Korea`      1      12.3 16083 1651.0
## + nationalityCanada             1      12.0 16084 1651.0
## + nationalityAustralia          1       9.8 16086 1651.1
## + nationalityUruguay            1       9.5 16086 1651.1
## + nationalityCuracao           1       8.7 16087 1651.1
## + nationalityIsrael             1       8.4 16087 1651.1
## + `clubNewcastle+United`        1       7.4 16088 1651.1
## + `clubLeicester+City`          1       7.2 16088 1651.1
## + nationalityDenmark            1       7.0 16089 1651.1
## + nationalityNetherlands        1       6.6 16089 1651.2
## + nationalityMorocco            1       5.3 16090 1651.2
## + nationalityMali               1       4.8 16091 1651.2
## + nationalityEgypt              1       3.8 16092 1651.2
## + nationalityBermuda            1       3.8 16092 1651.2
## + nationalityTunisia           1       3.5 16092 1651.2
## + nationalityFinland           1       3.5 16092 1651.2
## + nationalityIceland           1       3.5 16092 1651.2
## + nationalitySlovenia          1       3.0 16093 1651.2
## + nationalityArmenia           1       2.6 16093 1651.3
## + nationalitySweden            1       2.3 16093 1651.3
## + `clubWest+Brom`              1       2.2 16094 1651.3
## + nationalityJamaica           1       2.0 16094 1651.3
## + nationalityGhana             1       1.7 16094 1651.3
## + `nationalityNorthern Ireland` 1       1.6 16094 1651.3
## + nationalityVenezuela         1       1.5 16094 1651.3
## + nationalityCameroon          1       1.5 16094 1651.3
## + positionRB                   1       1.4 16094 1651.3
## + nationalityIreland           1       1.3 16094 1651.3
## + nationalityAustria           1       1.2 16094 1651.3
## + nationalityJapan             1       1.2 16095 1651.3
## + clubSwansea                 1       1.1 16095 1651.3
## + nationalityGermany           1       0.8 16095 1651.3
## + nationalityWales             1       0.8 16095 1651.3
## + `nationalityCongo DR`        1       0.8 16095 1651.3
## + nationalityBosnia           1       0.4 16095 1651.3
## + clubWatford                 1       0.3 16096 1651.3
## + nationalityRomania           1       0.1 16096 1651.3
## + nationalityGreece            1       0.1 16096 1651.3
## + `nationalityUnited States`   1       0.0 16096 1651.3
## + nationalityCroatia           1       0.0 16096 1651.3
## + positionLB                   1       0.0 16096 1651.3
## - page_views                   1    2341.4 18437 1709.8
## - ns(age, 3)                   3    2629.5 18725 1712.9
## - big_club                     1    3526.7 19622 1738.5
## - fpl_value                    1    5446.6 21542 1781.4
##
## Step: AIC=1610.88
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +

```

```

##      fpl_points
##
##                                     Df Sum of Sq   RSS   AIC
## + `clubManchester+City`          1      716.0 14024 1590.0
## + positionCF                      1      708.1 14032 1590.2
## + new_foreign                     1      410.0 14330 1599.9
## + position_cat                    1      389.5 14351 1600.6
## + positionDM                      1      361.6 14379 1601.5
## + clubLiverpool                   1      355.9 14384 1601.6
## + nationalityEngland               1      319.6 14421 1602.8
## + positionSS                      1      300.7 14440 1603.4
## + nationalityFrance                1      274.0 14466 1604.2
## + nationalityNorway                1      259.7 14481 1604.7
## + nationalityBelgium               1      245.8 14495 1605.1
## + clubChelsea                     1      207.4 14533 1606.4
## + clubBournemouth                 1      180.0 14560 1607.2
## + clubArsenal                     1      161.1 14579 1607.8
## + clubBurnley                     1      143.4 14597 1608.4
## + club_id                          1      116.5 14624 1609.2
## + region                          1      106.7 14634 1609.5
## + clubSouthampton                 1      104.7 14636 1609.6
## + positionCB                      1       99.7 14641 1609.8
## + nationalityEcuador               1       90.1 14650 1610.1
## + `nationalityCzech Republic`     1       85.6 14655 1610.2
## + nationalityArgentina             1       76.0 14664 1610.5
## + nationalityScotland              1       75.2 14665 1610.5
## + positionCM                      1       70.9 14670 1610.7
## <none>                             1       14740 1610.9
## + nationalitySwitzerland           1       63.3 14677 1610.9
## + nationalityEstonia               1       51.6 14689 1611.3
## + nationalityNigeria               1       49.1 14691 1611.3
## + positionRM                      1       48.4 14692 1611.4
## + clubHuddersfield                1       47.7 14693 1611.4
## + new_signing                     1       47.6 14693 1611.4
## + nationalitySenegal               1       44.7 14696 1611.5
## + nationalitySerbia                1       40.7 14700 1611.6
## + clubEverton                     1       38.5 14702 1611.7
## + nationalityItaly                 1       37.1 14703 1611.7
## + positionGK                      1       34.7 14706 1611.8
## + `clubNewcastle+United`          1       31.9 14708 1611.9
## + positionLW                      1       30.4 14710 1611.9
## + nationalityBrazil                1       29.9 14710 1611.9
## + positionLM                      1       28.7 14712 1612.0
## + nationalityKenya                 1       28.6 14712 1612.0
## + nationalityPortugal              1       27.9 14713 1612.0
## + nationalityColombia              1       26.2 14714 1612.1
## + `nationalityThe Gambia`         1       24.1 14716 1612.1
## + `clubManchester+United`          1       22.0 14718 1612.2
## + nationalityChile                 1       21.4 14719 1612.2
## + `nationalityCote d'Ivoire`       1       18.3 14722 1612.3
## + nationalityCanada                1       18.0 14722 1612.3
## + `nationalityTrinidad and Tobago` 1       17.5 14723 1612.3
## + `nationalitySouth Korea`         1       17.0 14723 1612.3
## + `clubWest+Ham`                  1       16.9 14724 1612.3

```

```

## + nationalityIceland          1      15.8 14725 1612.4
## + nationalityPoland           1      15.5 14725 1612.4
## + positionRW                  1      14.0 14726 1612.4
## + nationalityFinland          1      12.9 14728 1612.5
## + nationalitySpain            1      12.6 14728 1612.5
## + `clubStoke+City`           1      12.3 14728 1612.5
## + nationalitySweden           1      12.3 14728 1612.5
## + `clubCrystal+Palace`       1       9.8 14731 1612.6
## + positionLB                  1       8.5 14732 1612.6
## + nationalityBosnia           1       7.4 14733 1612.7
## + nationalityCuracao         1       7.4 14733 1612.7
## + `clubWest+Brom`            1       7.1 14733 1612.7
## + nationalityGermany          1       6.9 14734 1612.7
## + positionRB                  1       6.6 14734 1612.7
## + nationalityMorocco           1       5.8 14735 1612.7
## + nationalityRomania          1       5.2 14735 1612.7
## + clubSwansea                 1       4.7 14736 1612.7
## + `nationalityNew Zealand`   1       4.7 14736 1612.7
## + `clubLeicester+City`       1       4.5 14736 1612.7
## + nationalityUruguay          1       4.3 14736 1612.7
## + `clubBrighton+and+Hove`    1       3.8 14737 1612.8
## + nationalityJamaica          1       3.4 14737 1612.8
## + nationalityNetherlands      1       3.3 14737 1612.8
## + nationalityCroatia          1       3.1 14737 1612.8
## + nationalitySlovenia         1       2.9 14738 1612.8
## + nationalityJapan            1       2.7 14738 1612.8
## + nationalityArmenia          1       2.4 14738 1612.8
## + nationalityDenmark          1       2.2 14738 1612.8
## + nationalityGhana            1       2.0 14738 1612.8
## + nationalityGreece           1       2.0 14738 1612.8
## + nationalityWales            1       1.7 14739 1612.8
## + nationalityEgypt            1       1.6 14739 1612.8
## + nationalityAustria          1       1.1 14739 1612.8
## + nationalityTunisia          1       0.9 14740 1612.8
## + nationalityCameroon         1       0.6 14740 1612.9
## + `nationalityNorthern Ireland` 1       0.3 14740 1612.9
## + `nationalityUnited States` 1       0.3 14740 1612.9
## + nationalityVenezuela        1       0.3 14740 1612.9
## + nationalityAustralia        1       0.2 14740 1612.9
## + clubWatford                 1       0.2 14740 1612.9
## + nationalityIreland          1       0.1 14740 1612.9
## + nationalityIsrael           1       0.1 14740 1612.9
## + nationalityMali             1       0.1 14740 1612.9
## + `nationalityCongo DR`      1       0.0 14740 1612.9
## + clubTottenham              1       0.0 14740 1612.9
## + nationalityBermuda          1       0.0 14740 1612.9
## - fpl_points                  1    1355.3 16096 1649.3
## - page_views                  1    1743.6 16484 1660.3
## - ns(age, 3)                  3    2831.3 17572 1685.7
## - fpl_value                   1    2754.3 17495 1687.7
## - big_club                    1    3497.7 18238 1706.8
##
## Step: AIC=1589.97
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +

```

```

##      fpl_points + `clubManchester+City`
##
##
##              Df Sum of Sq  RSS    AIC
## + positionCF      1    630.12 13394 1570.8
## + new_foreign      1    392.45 13632 1578.9
## + clubChelsea      1    362.17 13662 1579.9
## + nationalityFrance 1    353.41 13671 1580.2
## + position_cat     1    348.91 13676 1580.4
## + positionDM       1    320.52 13704 1581.3
## + nationalityEngland 1    301.61 13723 1582.0
## + positionSS       1    290.92 13734 1582.3
## + nationalityNorway 1    257.05 13767 1583.5
## + nationalityBelgium 1    246.25 13778 1583.8
## + clubLiverpool    1    189.22 13835 1585.7
## + clubBournemouth  1    183.61 13841 1585.9
## + clubBurnley      1    148.70 13876 1587.1
## + clubSouthampton  1    100.00 13924 1588.7
## + positionCB       1     93.10 13931 1588.9
## + nationalityScotland 1     76.97 13947 1589.4
## + nationalityEcuador 1     76.13 13948 1589.5
## + region           1     75.61 13949 1589.5
## + nationalityNigeria 1     74.70 13950 1589.5
## + club_id          1     74.34 13950 1589.5
## + `nationalityCzech Republic` 1     72.78 13952 1589.6
## + nationalitySwitzerland 1     66.21 13958 1589.8
## <none>                                14024 1590.0
## + positionCM       1     58.80 13966 1590.0
## + nationalityArgentina 1     57.56 13967 1590.1
## + clubArsenal      1     51.31 13973 1590.3
## + nationalitySenegal 1     50.86 13974 1590.3
## + clubHuddersfield 1     47.14 13977 1590.4
## + `nationalityCote d'Ivoire` 1     44.79 13980 1590.5
## + nationalityEstonia 1     40.04 13984 1590.7
## + positionRM       1     39.51 13985 1590.7
## + clubEverton      1     39.47 13985 1590.7
## + nationalityKenya  1     34.34 13990 1590.8
## + nationalityItaly  1     33.59 13991 1590.9
## + positionGK       1     31.24 13993 1590.9
## + `clubNewcastle+United` 1     29.61 13995 1591.0
## + positionLW       1     27.79 13997 1591.1
## + new_signing      1     26.26 13998 1591.1
## + `nationalityThe Gambia` 1     25.85 13999 1591.1
## + nationalitySpain  1     24.36 14000 1591.2
## + positionLM       1     22.84 14002 1591.2
## + clubTottenham    1     20.99 14003 1591.3
## + nationalitySerbia  1     19.64 14005 1591.3
## + nationalityCanada 1     18.53 14006 1591.4
## + nationalityColombia 1     17.46 14007 1591.4
## + `nationalityTrinidad and Tobago` 1     17.33 14007 1591.4
## + nationalityPoland 1     16.59 14008 1591.4
## + `clubWest+Ham`    1     16.56 14008 1591.4
## + nationalityPortugal 1     16.45 14008 1591.4
## + nationalitySweden 1     15.37 14009 1591.5
## + nationalityIceland 1     13.85 14011 1591.5

```

```

## + nationalityFinland 1 13.81 14011 1591.5
## + `nationalitySouth Korea` 1 13.36 14011 1591.5
## + `clubStoke+City` 1 13.02 14011 1591.5
## + nationalityBosnia 1 11.95 14012 1591.6
## + positionRW 1 11.72 14013 1591.6
## + `clubCrystal+Palace` 1 9.54 14015 1591.7
## + nationalityCuracao 1 8.33 14016 1591.7
## + positionLB 1 7.14 14017 1591.7
## + positionRB 1 6.72 14018 1591.8
## + nationalityArmenia 1 6.68 14018 1591.8
## + nationalityMorocco 1 6.37 14018 1591.8
## + nationalityEgypt 1 5.84 14019 1591.8
## + `clubWest+Brom` 1 5.68 14019 1591.8
## + nationalityRomania 1 5.61 14019 1591.8
## + `clubBrighton+and+Hove` 1 5.23 14019 1591.8
## + clubSwansea 1 5.03 14019 1591.8
## + `clubLeicester+City` 1 4.84 14020 1591.8
## + nationalityUruguay 1 4.76 14020 1591.8
## + `nationalityNew Zealand` 1 4.35 14020 1591.8
## + nationalityDenmark 1 3.48 14021 1591.9
## + nationalityJamaica 1 3.46 14021 1591.9
## + nationalityChile 1 3.35 14021 1591.9
## + nationalityGhana 1 2.81 14022 1591.9
## + nationalitySlovenia 1 2.45 14022 1591.9
## + nationalityJapan 1 2.37 14022 1591.9
## + nationalityGreece 1 1.43 14023 1591.9
## + nationalityCameroon 1 1.36 14023 1591.9
## + nationalityTunisia 1 0.88 14024 1591.9
## + nationalityCroatia 1 0.86 14024 1591.9
## + nationalityBrazil 1 0.80 14024 1591.9
## + nationalityGermany 1 0.78 14024 1592.0
## + nationalityNetherlands 1 0.61 14024 1592.0
## + nationalityAustralia 1 0.50 14024 1592.0
## + nationalityAustria 1 0.41 14024 1592.0
## + nationalityIsrael 1 0.22 14024 1592.0
## + nationalityWales 1 0.21 14024 1592.0
## + `nationalityUnited States` 1 0.16 14024 1592.0
## + nationalityVenezuela 1 0.15 14024 1592.0
## + nationalityIreland 1 0.14 14024 1592.0
## + clubWatford 1 0.14 14024 1592.0
## + `nationalityNorthern Ireland` 1 0.12 14024 1592.0
## + `nationalityCongo DR` 1 0.09 14024 1592.0
## + nationalityMali 1 0.07 14024 1592.0
## + nationalityBermuda 1 0.02 14024 1592.0
## + `clubManchester+United` 1 0.01 14024 1592.0
## - `clubManchester+City` 1 716.03 14740 1610.9
## - fpl_points 1 1480.05 15504 1634.1
## - page_views 1 1944.98 15969 1647.7
## - fpl_value 1 2221.30 16246 1655.6
## - big_club 1 2452.71 16477 1662.1
## - ns(age, 3) 3 3161.00 17185 1677.5
##
## Step: AIC=1570.82
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +

```

```
##      fpl_points + `clubManchester+City` + positionCF
##
##
##      Df Sum of Sq  RSS   AIC
## + positionSS      1    412.12 12982 1558.5
## + nationalityFrance      1    366.92 13027 1560.0
## + clubChelsea      1    340.18 13054 1561.0
## + positionDM      1    304.80 13090 1562.2
## + nationalityBelgium      1    295.40 13099 1562.6
## + nationalityNorway      1    287.84 13106 1562.8
## + new_foreign      1    274.05 13120 1563.3
## + nationalityEngland      1    255.04 13139 1564.0
## + clubLiverpool      1    166.15 13228 1567.1
## + position_cat      1    163.57 13231 1567.2
## + clubBournemouth      1    151.94 13242 1567.6
## + positionLW      1    120.11 13274 1568.7
## + clubBurnley      1    112.20 13282 1569.0
## + clubSouthampton      1    101.24 13293 1569.3
## + nationalityEcuador      1     90.90 13303 1569.7
## + positionRW      1     80.93 13313 1570.0
## + club_id      1     80.13 13314 1570.1
## + `nationalityCzech Republic`      1     79.34 13315 1570.1
## + nationalityScotland      1     68.40 13326 1570.5
## + nationalitySenegal      1     66.23 13328 1570.5
## + clubHuddersfield      1     61.77 13332 1570.7
## + `nationalityCote d'Ivoire`      1     60.99 13333 1570.7
## + positionCB      1     59.82 13334 1570.8
## + positionRM      1     59.80 13334 1570.8
## <none>      13394 1570.8
## + nationalitySwitzerland      1     57.36 13337 1570.8
## + region      1     57.18 13337 1570.9
## + clubArsenal      1     55.04 13339 1570.9
## + nationalityArgentina      1     52.23 13342 1571.0
## + nationalityNigeria      1     51.68 13343 1571.0
## + nationalityKenya      1     42.04 13352 1571.4
## + positionLM      1     39.24 13355 1571.5
## + nationalityEstonia      1     37.59 13357 1571.5
## + nationalitySerbia      1     36.61 13358 1571.6
## + `nationalityThe Gambia`      1     30.24 13364 1571.8
## + new_signing      1     26.87 13367 1571.9
## + positionGK      1     26.71 13368 1571.9
## + nationalityIceland      1     26.40 13368 1571.9
## + `clubNewcastle+United`      1     26.25 13368 1571.9
## + `nationalityTrinidad and Tobago`      1     23.76 13370 1572.0
## + nationalitySpain      1     23.12 13371 1572.0
## + `clubStoke+City`      1     22.80 13372 1572.0
## + `nationalitySouth Korea`      1     21.23 13373 1572.1
## + nationalityCanada      1     21.09 13373 1572.1
## + nationalityColombia      1     20.12 13374 1572.1
## + `clubWest+Ham`      1     19.21 13375 1572.2
## + positionLB      1     17.39 13377 1572.2
## + clubTottenham      1     17.34 13377 1572.2
## + nationalityPoland      1     15.59 13379 1572.3
## + positionCM      1     14.99 13379 1572.3
## + positionRB      1     14.27 13380 1572.3
```

```

## + nationalityBermuda          1      11.24 13383 1572.4
## + nationalityFinland          1      11.24 13383 1572.4
## + nationalitySweden           1      10.49 13384 1572.5
## + `clubLeicester+City`        1      10.05 13384 1572.5
## + nationalityItaly            1      10.04 13384 1572.5
## + clubEverton                 1       9.56 13385 1572.5
## + nationalityCuracao         1       9.48 13385 1572.5
## + `clubCrystal+Palace`        1       8.37 13386 1572.5
## + nationalityVenezuela        1       7.74 13386 1572.6
## + nationalityPortugal         1       7.32 13387 1572.6
## + nationalityBosnia          1       5.98 13388 1572.6
## + `clubWest+Brom`            1       5.84 13388 1572.6
## + nationalityNetherlands      1       5.20 13389 1572.7
## + nationalityIsrael           1       4.96 13389 1572.7
## + nationalityUruguay          1       4.21 13390 1572.7
## + `nationalityNew Zealand`    1       4.00 13390 1572.7
## + nationalityRomania          1       3.14 13391 1572.7
## + `clubBrighton+and+Hove`     1       3.05 13391 1572.7
## + nationalityJamaica          1       2.51 13392 1572.7
## + nationalityAustralia        1       2.48 13392 1572.7
## + nationalityGreece           1       2.43 13392 1572.7
## + nationalityMorocco          1       2.14 13392 1572.8
## + nationalityTunisia          1       1.79 13392 1572.8
## + nationalitySlovenia         1       1.70 13393 1572.8
## + clubSwansea                 1       1.70 13393 1572.8
## + `nationalityNorthern Ireland` 1       1.38 13393 1572.8
## + nationalityGhana            1       1.31 13393 1572.8
## + clubWatford                 1       1.02 13393 1572.8
## + nationalityAustria          1       0.98 13393 1572.8
## + nationalityArmenia          1       0.73 13394 1572.8
## + nationalityCameroon         1       0.68 13394 1572.8
## + nationalityCroatia          1       0.54 13394 1572.8
## + nationalityEgypt            1       0.38 13394 1572.8
## + nationalityMali             1       0.36 13394 1572.8
## + nationalityJapan            1       0.29 13394 1572.8
## + nationalityDenmark          1       0.26 13394 1572.8
## + `nationalityCongo DR`       1       0.26 13394 1572.8
## + nationalityWales            1       0.19 13394 1572.8
## + nationalityBrazil           1       0.12 13394 1572.8
## + `clubManchester+United`     1       0.04 13394 1572.8
## + nationalityIreland          1       0.02 13394 1572.8
## + nationalityChile            1       0.00 13394 1572.8
## + nationalityGermany          1       0.00 13394 1572.8
## + `nationalityUnited States`  1       0.00 13394 1572.8
## - positionCF                  1      630.12 14024 1590.0
## - `clubManchester+City`       1      638.02 14032 1590.2
## - fpl_points                  1      955.08 14349 1600.5
## - page_views                  1     1942.67 15337 1631.1
## - big_club                    1     2006.61 15401 1633.0
## - ns(age, 3)                  3     2799.69 16194 1652.1
## - fpl_value                   1     2837.34 16232 1657.2
##
## Step:  AIC=1558.45
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +

```

```

##      fpl_points + `clubManchester+City` + positionCF + positionSS
##
##
##              Df Sum of Sq  RSS   AIC
## + nationalityFrance      1    335.02 12647 1548.4
## + clubChelsea            1    317.39 12665 1549.1
## + nationalityBelgium     1    288.79 12693 1550.1
## + positionDM             1    282.62 12700 1550.3
## + nationalityEngland     1    270.16 12712 1550.8
## + new_foreign            1    252.05 12730 1551.4
## + positionLW             1    160.24 12822 1554.7
## + clubBournemouth        1    125.97 12856 1556.0
## + clubLiverpool          1    123.42 12859 1556.0
## + clubBurnley            1    116.17 12866 1556.3
## + positionRW             1    111.97 12870 1556.5
## + position_cat           1    106.91 12875 1556.6
## + nationalityNorway       1     97.99 12884 1557.0
## + nationalityEcuador     1     94.09 12888 1557.1
## + clubSouthampton        1     86.36 12896 1557.4
## + club_id                1     81.66 12900 1557.5
## + nationalityArgentina    1     81.49 12901 1557.5
## + `nationalityCzech Republic` 1     80.84 12901 1557.6
## + clubHuddersfield       1     75.69 12906 1557.8
## + nationalityScotland    1     75.67 12906 1557.8
## + `nationalityCote d'Ivoire` 1     69.49 12913 1558.0
## + positionRM             1     69.10 12913 1558.0
## + clubArsenal            1     60.77 12921 1558.3
## + nationalitySenegal      1     60.19 12922 1558.3
## + nationalityNigeria     1     58.17 12924 1558.4
## <none>                                12982 1558.5
## + region                 1     55.47 12927 1558.5
## + nationalitySpain        1     53.33 12929 1558.5
## + nationalitySwitzerland  1     51.67 12930 1558.6
## + positionCB             1     49.01 12933 1558.7
## + positionLM             1     44.33 12938 1558.9
## + nationalityKenya        1     44.04 12938 1558.9
## + nationalitySerbia       1     38.56 12944 1559.1
## + nationalityEstonia      1     36.13 12946 1559.2
## + `clubNewcastle+United`  1     35.47 12947 1559.2
## + `clubStoke+City`       1     34.99 12947 1559.2
## + `nationalityThe Gambia` 1     32.86 12949 1559.3
## + nationalityIceland      1     29.41 12953 1559.4
## + `nationalityTrinidad and Tobago` 1     25.45 12957 1559.5
## + positionGK             1     24.79 12957 1559.6
## + `nationalitySouth Korea` 1     24.71 12958 1559.6
## + nationalityCanada       1     22.09 12960 1559.7
## + new_signing            1     21.53 12961 1559.7
## + positionLB             1     20.55 12962 1559.7
## + clubEverton            1     20.52 12962 1559.7
## + nationalityColombia     1     19.40 12963 1559.8
## + clubTottenham          1     17.90 12964 1559.8
## + positionRB             1     17.14 12965 1559.8
## + nationalityPoland       1     15.25 12967 1559.9
## + `clubWest+Ham`         1     14.04 12968 1560.0
## + nationalityBermuda      1     12.37 12970 1560.0

```



```

## + nationalityItaly          1      11.87 12970 1560.0
## + nationalityFinland        1      10.55 12972 1560.1
## + nationalityCuracao       1      10.32 12972 1560.1
## + nationalityVenezuela      1       9.09 12973 1560.1
## + nationalitySweden         1       9.08 12973 1560.1
## + nationalityNetherlands    1       8.36 12974 1560.2
## + `clubWest+Brom`          1       7.71 12974 1560.2
## + nationalityBrazil         1       6.59 12976 1560.2
## + nationalityPortugal       1       6.56 12976 1560.2
## + `clubCrystal+Palace`     1       5.21 12977 1560.3
## + positionCM                1       5.08 12977 1560.3
## + nationalityIsrael         1       4.97 12977 1560.3
## + `clubLeicester+City`     1       4.91 12977 1560.3
## + nationalityBosnia         1       4.86 12977 1560.3
## + nationalityUruguay        1       4.21 12978 1560.3
## + nationalityAustralia      1       4.11 12978 1560.3
## + `nationalityNew Zealand`  1       3.82 12978 1560.3
## + clubSwansea              1       3.56 12979 1560.3
## + nationalityGreece         1       2.60 12980 1560.4
## + nationalityRomania        1       2.49 12980 1560.4
## + nationalityGhana          1       2.47 12980 1560.4
## + nationalityTunisia        1       2.21 12980 1560.4
## + nationalityJamaica        1       1.94 12980 1560.4
## + `nationalityNorthern Ireland` 1       1.86 12980 1560.4
## + nationalityMorocco        1       1.32 12981 1560.4
## + nationalitySlovenia       1       1.31 12981 1560.4
## + `clubBrighton+and+Hove`   1       1.08 12981 1560.4
## + nationalityAustria        1       1.04 12981 1560.4
## + nationalityMali           1       0.77 12981 1560.4
## + `clubManchester+United`   1       0.61 12982 1560.4
## + nationalityCameroon       1       0.49 12982 1560.4
## + nationalityGermany        1       0.44 12982 1560.4
## + nationalityIreland        1       0.38 12982 1560.4
## + nationalityWales          1       0.36 12982 1560.4
## + nationalityJapan          1       0.36 12982 1560.4
## + nationalityCroatia        1       0.27 12982 1560.4
## + nationalityChile          1       0.12 12982 1560.4
## + `nationalityUnited States` 1       0.10 12982 1560.5
## + nationalityEgypt          1       0.07 12982 1560.5
## + `nationalityCongo DR`     1       0.02 12982 1560.5
## + nationalityArmenia        1       0.01 12982 1560.5
## + nationalityDenmark        1       0.01 12982 1560.5
## + clubWatford              1       0.00 12982 1560.5
## - positionSS                1     412.12 13394 1570.8
## - `clubManchester+City`     1     619.56 13602 1577.9
## - positionCF                1     751.32 13734 1582.3
## - fpl_points                1     850.71 13833 1585.7
## - big_club                  1    1695.22 14677 1612.9
## - page_views                1    2200.06 15182 1628.5
## - ns(age, 3)                3    2813.66 15796 1642.7
## - fpl_value                 1    2942.57 15925 1650.4
##
## Step:  AIC=1548.42
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +

```

```

##      fpl_points + `clubManchester+City` + positionCF + positionSS +
##      nationalityFrance
##
##
##      Df Sum of Sq  RSS    AIC
## + nationalityBelgium      1    326.07 12321 1538.4
## + clubChelsea            1    289.52 12358 1539.8
## + new_foreign            1    228.69 12418 1542.0
## + positionDM             1    192.35 12455 1543.4
## + nationalityEngland      1    185.11 12462 1543.6
## + positionLW             1    145.91 12501 1545.1
## + clubBournemouth        1    133.77 12513 1545.5
## + position_cat           1    114.16 12533 1546.2
## + nationalityNorway       1    105.81 12541 1546.6
## + clubBurnley            1    105.28 12542 1546.6
## + positionRW             1    102.31 12545 1546.7
## + nationalityArgentina    1     95.67 12552 1546.9
## + clubLiverpool          1     94.36 12553 1547.0
## + nationalityEcuador      1     87.10 12560 1547.2
## + positionRM             1     85.93 12561 1547.3
## + clubSouthampton        1     82.76 12564 1547.4
## + club_id                1     78.43 12569 1547.6
## + nationalitySpain        1     76.13 12571 1547.6
## + `nationalityCzech Republic` 1     75.14 12572 1547.7
## + clubArsenal            1     71.44 12576 1547.8
## + nationalitySenegal      1     70.35 12577 1547.9
## + nationalityScotland     1     67.07 12580 1548.0
## + `nationalityCote d'Ivoire` 1     63.13 12584 1548.1
## + nationalitySwitzerland  1     58.36 12589 1548.3
## + region                 1     57.87 12589 1548.3
## + clubHuddersfield        1     55.02 12592 1548.4
## <none>                    12647 1548.4
## + nationalityNigeria     1     49.68 12598 1548.6
## + nationalityKenya        1     49.56 12598 1548.6
## + positionCB             1     46.62 12600 1548.7
## + nationalitySerbia       1     45.49 12602 1548.8
## + positionLM             1     38.67 12608 1549.0
## + nationalityEstonia     1     31.30 12616 1549.3
## + positionGK             1     31.14 12616 1549.3
## + `clubStoke+City`       1     31.05 12616 1549.3
## + `nationalityThe Gambia` 1     30.30 12617 1549.3
## + `clubNewcastle+United` 1     29.56 12618 1549.3
## + nationalityIceland      1     28.92 12618 1549.4
## + `nationalityTrinidad and Tobago` 1     23.02 12624 1549.6
## + nationalityCanada       1     21.01 12626 1549.7
## + `nationalitySouth Korea` 1     20.65 12626 1549.7
## + clubEverton            1     19.83 12627 1549.7
## + `clubWest+Ham`         1     18.68 12628 1549.7
## + positionLB             1     16.03 12631 1549.8
## + nationalityColombia     1     15.20 12632 1549.9
## + nationalityPoland       1     14.79 12632 1549.9
## + nationalityBermuda      1     14.54 12633 1549.9
## + nationalitySweden       1     12.70 12634 1550.0
## + nationalityFinland      1     11.65 12636 1550.0
## + nationalityBrazil       1     11.37 12636 1550.0

```

```

## + clubTottenham 1 9.92 12637 1550.1
## + positionRB 1 9.61 12638 1550.1
## + nationalityVenezuela 1 9.38 12638 1550.1
## + nationalityCuracao 1 8.98 12638 1550.1
## + nationalityPortugal 1 8.80 12638 1550.1
## + nationalityBosnia 1 7.66 12640 1550.1
## + nationalityItaly 1 7.61 12640 1550.1
## + nationalityIsrael 1 6.53 12641 1550.2
## + new_signing 1 6.45 12641 1550.2
## + `clubWest+Brom` 1 6.29 12641 1550.2
## + `clubLeicester+City` 1 4.68 12642 1550.2
## + positionCM 1 4.39 12643 1550.3
## + nationalityUruguay 1 4.25 12643 1550.3
## + `nationalityNew Zealand` 1 3.95 12643 1550.3
## + `clubCrystal+Palace` 1 3.93 12643 1550.3
## + nationalityNetherlands 1 3.43 12644 1550.3
## + clubWatford 1 3.24 12644 1550.3
## + nationalityRomania 1 3.23 12644 1550.3
## + nationalityGreece 1 2.71 12644 1550.3
## + nationalityJamaica 1 2.52 12645 1550.3
## + nationalityAustralia 1 2.25 12645 1550.3
## + nationalityMorocco 1 1.78 12645 1550.4
## + nationalityTunisia 1 1.73 12645 1550.4
## + nationalitySlovenia 1 1.70 12646 1550.4
## + `clubBrighton+and+Hove` 1 1.69 12646 1550.4
## + `nationalityNorthern Ireland` 1 1.55 12646 1550.4
## + clubSwansea 1 1.34 12646 1550.4
## + nationalityCameroon 1 1.27 12646 1550.4
## + nationalityGhana 1 1.19 12646 1550.4
## + nationalityEgypt 1 0.92 12646 1550.4
## + nationalityArmenia 1 0.58 12647 1550.4
## + nationalityJapan 1 0.56 12647 1550.4
## + nationalityGermany 1 0.41 12647 1550.4
## + nationalityAustria 1 0.40 12647 1550.4
## + `nationalityCongo DR` 1 0.30 12647 1550.4
## + nationalityMali 1 0.28 12647 1550.4
## + nationalityDenmark 1 0.23 12647 1550.4
## + nationalityChile 1 0.06 12647 1550.4
## + nationalityCroatia 1 0.05 12647 1550.4
## + `clubManchester+United` 1 0.04 12647 1550.4
## + nationalityWales 1 0.00 12647 1550.4
## + nationalityIreland 1 0.00 12647 1550.4
## + `nationalityUnited States` 1 0.00 12647 1550.4
## - nationalityFrance 1 335.02 12982 1558.5
## - positionSS 1 380.21 13027 1560.0
## - `clubManchester+City` 1 691.68 13339 1570.9
## - positionCF 1 760.06 13407 1573.3
## - fpl_points 1 940.28 13587 1579.4
## - big_club 1 1542.39 14190 1599.4
## - page_views 1 2020.08 14667 1614.6
## - ns(age, 3) 3 2656.60 15304 1630.1
## - fpl_value 1 2989.51 15637 1644.0
##
## Step: AIC=1538.41

```

```

## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##     fpl_points + `clubManchester+City` + positionCF + positionSS +
##     nationalityFrance + nationalityBelgium
##
##
##           Df Sum of Sq  RSS   AIC
## + new_foreign      1    256.35 12065 1530.7
## + clubChelsea      1    246.55 12074 1531.1
## + positionDM       1    206.01 12115 1532.7
## + positionLW       1    152.09 12169 1534.7
## + nationalityEngland 1    129.34 12192 1535.5
## + clubBournemouth  1    120.42 12201 1535.9
## + nationalityArgentina 1    114.84 12206 1536.1
## + clubBurnley      1    113.12 12208 1536.2
## + nationalitySpain  1    108.89 12212 1536.3
## + position_cat     1    104.11 12217 1536.5
## + nationalityNorway  1     97.24 12224 1536.8
## + positionRW       1     95.78 12225 1536.8
## + clubSouthampton  1     93.31 12228 1536.9
## + clubLiverpool    1     88.93 12232 1537.1
## + nationalitySenegal 1     81.66 12239 1537.3
## + positionRM       1     81.33 12240 1537.4
## + nationalityEcuador 1     79.27 12242 1537.4
## + `nationalityCzech Republic` 1     71.45 12250 1537.7
## + club_id          1     69.60 12252 1537.8
## + clubHuddersfield  1     69.54 12252 1537.8
## + region           1     64.06 12257 1538.0
## + nationalitySwitzerland 1     61.41 12260 1538.1
## + nationalityScotland 1     59.52 12262 1538.2
## + `nationalityCote d'Ivoire` 1     56.08 12265 1538.3
## + nationalityKenya  1     55.41 12266 1538.3
## + <none>              12321 1538.4
## + nationalitySerbia  1     52.95 12268 1538.4
## + nationalityNigeria 1     42.86 12278 1538.8
## + clubArsenal      1     38.28 12283 1539.0
## + `clubStoke+City`  1     36.16 12285 1539.0
## + positionLM       1     35.11 12286 1539.1
## + positionCB       1     34.55 12286 1539.1
## + `nationalityThe Gambia` 1     30.14 12291 1539.3
## + nationalityEstonia 1     28.35 12293 1539.3
## + `clubNewcastle+United` 1     27.52 12294 1539.4
## + `clubWest+Ham`    1     26.17 12295 1539.4
## + nationalityIceland 1     23.31 12298 1539.5
## + positionGK       1     23.29 12298 1539.5
## + `nationalityTrinidad and Tobago` 1     22.46 12299 1539.6
## + nationalityBrazil  1     22.17 12299 1539.6
## + nationalityCanada  1     19.30 12302 1539.7
## + `nationalitySouth Korea` 1     16.62 12304 1539.8
## + nationalityBermuda 1     16.25 12305 1539.8
## + nationalityPoland  1     14.75 12306 1539.9
## + clubEverton      1     14.52 12307 1539.9
## + nationalitySweden  1     14.08 12307 1539.9
## + nationalityVenezuela 1     13.10 12308 1539.9
## + nationalityColombia 1     12.86 12308 1539.9
## + nationalityPortugal 1     12.25 12309 1540.0

```

## + nationalityFinland	1	11.20	12310	1540.0
## + positionLB	1	8.88	12312	1540.1
## + nationalityBosnia	1	8.70	12312	1540.1
## + nationalityCuracao	1	8.60	12312	1540.1
## + `clubWest+Brom`	1	8.38	12313	1540.1
## + `clubLeicester+City`	1	7.96	12313	1540.1
## + nationalityIsrael	1	7.52	12314	1540.1
## + clubWatford	1	5.92	12315	1540.2
## + nationalityItaly	1	5.28	12316	1540.2
## + `nationalityNew Zealand`	1	5.02	12316	1540.2
## + nationalityUruguay	1	4.73	12316	1540.2
## + positionRB	1	4.40	12317	1540.2
## + clubTottenham	1	4.08	12317	1540.2
## + nationalityRomania	1	3.28	12318	1540.3
## + nationalityAustralia	1	2.61	12318	1540.3
## + nationalityJamaica	1	2.49	12319	1540.3
## + nationalityGreece	1	2.31	12319	1540.3
## + nationalityMorocco	1	2.30	12319	1540.3
## + `clubCrystal+Palace`	1	2.26	12319	1540.3
## + nationalityCameroon	1	2.21	12319	1540.3
## + nationalityGermany	1	1.91	12319	1540.3
## + nationalityEgypt	1	1.74	12319	1540.3
## + `clubBrighton+and+Hove`	1	1.66	12319	1540.3
## + nationalityTunisia	1	1.59	12320	1540.3
## + positionCM	1	1.52	12320	1540.3
## + new_signing	1	1.38	12320	1540.4
## + nationalitySlovenia	1	1.32	12320	1540.4
## + nationalityArmenia	1	1.28	12320	1540.4
## + nationalityJapan	1	1.28	12320	1540.4
## + nationalityNetherlands	1	1.18	12320	1540.4
## + `nationalityNorthern Ireland`	1	0.94	12320	1540.4
## + nationalityDenmark	1	0.78	12320	1540.4
## + nationalityGhana	1	0.76	12320	1540.4
## + `nationalityCongo DR`	1	0.76	12320	1540.4
## + nationalityChile	1	0.47	12321	1540.4
## + nationalityWales	1	0.36	12321	1540.4
## + clubSwansea	1	0.36	12321	1540.4
## + nationalityMali	1	0.23	12321	1540.4
## + nationalityIreland	1	0.17	12321	1540.4
## + nationalityAustria	1	0.11	12321	1540.4
## + nationalityCroatia	1	0.10	12321	1540.4
## + `clubManchester+United`	1	0.05	12321	1540.4
## + `nationalityUnited States`	1	0.01	12321	1540.4
## - nationalityBelgium	1	326.07	12647	1548.4
## - positionSS	1	371.77	12693	1550.1
## - nationalityFrance	1	372.29	12693	1550.1
## - `clubManchester+City`	1	693.55	13015	1561.6
## - positionCF	1	815.64	13137	1565.9
## - fpl_points	1	844.16	13165	1566.9
## - big_club	1	1355.71	13677	1584.4
## - page_views	1	2151.80	14473	1610.5
## - ns(age, 3)	3	2593.07	14914	1620.3
## - fpl_value	1	2810.69	15132	1630.9
##				

```

## Step: AIC=1530.73
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
## fpl_points + `clubManchester+City` + positionCF + positionSS +
## nationalityFrance + nationalityBelgium + new_foreign
##
##
## Df Sum of Sq RSS AIC
## + clubChelsea 1 200.10 11865 1525.0
## + positionDM 1 172.82 11892 1526.1
## + nationalityArgentina 1 140.95 11924 1527.3
## + clubBournemouth 1 121.54 11943 1528.1
## + clubBurnley 1 115.16 11950 1528.3
## + positionLW 1 107.94 11957 1528.6
## + nationalityEngland 1 102.48 11962 1528.8
## + nationalityNorway 1 99.89 11965 1528.9
## + nationalitySenegal 1 90.74 11974 1529.3
## + clubSouthampton 1 83.91 11981 1529.5
## + clubLiverpool 1 82.26 11982 1529.6
## + positionRW 1 80.62 11984 1529.7
## + nationalityEcuador 1 74.24 11990 1529.9
## + `nationalityCzech Republic` 1 67.41 11997 1530.2
## + positionRM 1 66.09 11999 1530.2
## + region 1 63.48 12001 1530.3
## + nationalitySwitzerland 1 63.08 12002 1530.3
## + position_cat 1 60.11 12005 1530.4
## + nationalitySpain 1 59.67 12005 1530.5
## + club_id 1 56.43 12008 1530.6
## + nationalityScotland 1 56.28 12008 1530.6
## + nationalitySerbia 1 56.00 12009 1530.6
## <none> 12065 1530.7
## + nationalityKenya 1 52.34 12012 1530.7
## + `nationalityCote d'Ivoire` 1 51.36 12013 1530.8
## + `clubNewcastle+United` 1 49.52 12015 1530.8
## + nationalityNigeria 1 37.64 12027 1531.3
## + clubHuddersfield 1 37.56 12027 1531.3
## + `clubStoke+City` 1 35.20 12030 1531.4
## + clubArsenal 1 34.88 12030 1531.4
## + nationalityEstonia 1 28.62 12036 1531.6
## + positionLM 1 28.62 12036 1531.6
## + `clubWest+Ham` 1 26.93 12038 1531.7
## + `nationalityThe Gambia` 1 26.91 12038 1531.7
## + positionCB 1 22.59 12042 1531.9
## + nationalityCanada 1 19.54 12045 1532.0
## + nationalityIceland 1 19.27 12046 1532.0
## + nationalityBrazil 1 18.00 12047 1532.0
## + nationalityBermuda 1 17.45 12047 1532.1
## + `nationalityTrinidad and Tobago` 1 17.23 12048 1532.1
## + `clubWest+Brom` 1 16.91 12048 1532.1
## + positionGK 1 16.03 12049 1532.1
## + clubWatford 1 15.00 12050 1532.2
## + `nationalitySouth Korea` 1 14.90 12050 1532.2
## + nationalityFinland 1 12.25 12052 1532.3
## + nationalityVenezuela 1 11.83 12053 1532.3
## + clubTottenham 1 11.53 12053 1532.3
## + `clubBrighton+and+Hove` 1 10.61 12054 1532.3

```

## + nationalityColombia	1	9.41	12055	1532.4
## + nationalityIsrael	1	9.04	12056	1532.4
## + positionLB	1	8.74	12056	1532.4
## + nationalityCuracao	1	8.00	12057	1532.4
## + positionRB	1	6.67	12058	1532.5
## + nationalityPortugal	1	6.62	12058	1532.5
## + new_signing	1	6.25	12058	1532.5
## + clubEverton	1	5.97	12059	1532.5
## + nationalityItaly	1	4.84	12060	1532.5
## + nationalityRomania	1	4.22	12060	1532.6
## + `clubLeicester+City`	1	4.11	12061	1532.6
## + nationalityUruguay	1	4.05	12061	1532.6
## + `nationalityNew Zealand`	1	3.84	12061	1532.6
## + nationalityMorocco	1	3.69	12061	1532.6
## + nationalityEgypt	1	3.64	12061	1532.6
## + `clubCrystal+Palace`	1	2.95	12062	1532.6
## + `nationalityCongo DR`	1	2.80	12062	1532.6
## + nationalitySweden	1	2.73	12062	1532.6
## + nationalityArmenia	1	2.72	12062	1532.6
## + nationalityGreece	1	2.62	12062	1532.6
## + nationalityCameroon	1	2.59	12062	1532.6
## + nationalityGermany	1	2.19	12062	1532.7
## + nationalityJamaica	1	2.07	12063	1532.7
## + positionCM	1	2.00	12063	1532.7
## + nationalityDenmark	1	1.78	12063	1532.7
## + nationalitySlovenia	1	1.77	12063	1532.7
## + nationalityTunisia	1	1.43	12063	1532.7
## + clubSwansea	1	1.33	12063	1532.7
## + nationalityChile	1	1.33	12063	1532.7
## + nationalityAustralia	1	0.95	12064	1532.7
## + nationalityPoland	1	0.88	12064	1532.7
## + `nationalityNorthern Ireland`	1	0.88	12064	1532.7
## + nationalityNetherlands	1	0.82	12064	1532.7
## + nationalityJapan	1	0.82	12064	1532.7
## + nationalityIreland	1	0.68	12064	1532.7
## + nationalityWales	1	0.50	12064	1532.7
## + `clubManchester+United`	1	0.42	12064	1532.7
## + nationalityBosnia	1	0.30	12064	1532.7
## + nationalityGhana	1	0.17	12065	1532.7
## + nationalityCroatia	1	0.07	12065	1532.7
## + nationalityAustria	1	0.03	12065	1532.7
## + nationalityMali	1	0.01	12065	1532.7
## + `nationalityUnited States`	1	0.00	12065	1532.7
## - new_foreign	1	256.35	12321	1538.4
## - nationalityFrance	1	347.94	12413	1541.8
## - positionSS	1	351.48	12416	1541.9
## - nationalityBelgium	1	353.73	12418	1542.0
## - positionCF	1	681.39	12746	1554.0
## - `clubManchester+City`	1	683.93	12749	1554.1
## - fpl_points	1	1067.46	13132	1567.7
## - big_club	1	1274.05	13339	1574.9
## - fpl_value	1	1995.42	14060	1599.1
## - page_views	1	2343.23	14408	1610.4
## - ns(age, 3)	3	2573.38	14638	1613.7

```

##
## Step: AIC=1525.04
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##     fpl_points + `clubManchester+City` + positionCF + positionSS +
##     nationalityFrance + nationalityBelgium + new_foreign + clubChelsea
##
##
##           Df Sum of Sq  RSS   AIC
## + positionDM           1    162.16 11702 1520.7
## + nationalityArgentina   1    133.20 11731 1521.8
## + clubBournemouth       1    120.53 11744 1522.3
## + positionLW            1    115.49 11749 1522.5
## + clubBurnley           1    113.58 11751 1522.6
## + nationalityNorway      1    100.83 11764 1523.1
## + club_id              1     98.80 11766 1523.2
## + positionRW            1     97.61 11767 1523.2
## + nationalitySenegal     1     93.43 11771 1523.4
## + positionRM            1     86.46 11778 1523.7
## + clubSouthampton       1     83.91 11781 1523.8
## + nationalityEngland     1     81.35 11783 1523.9
## + nationalitySwitzerland 1     67.94 11797 1524.4
## + nationalityEcuador     1     67.78 11797 1524.4
## + position_cat          1     64.54 11800 1524.5
## + nationalityKenya       1     61.40 11803 1524.7
## + `nationalityCzech Republic` 1     60.48 11804 1524.7
## + nationalityScotland    1     57.20 11807 1524.8
## + nationalityNigeria    1     53.54 11811 1525.0
## <none>                  11865 1525.0
## + region                1     51.06 11814 1525.1
## + `nationalityCote d'Ivoire` 1     46.21 11818 1525.2
## + `clubNewcastle+United` 1     44.69 11820 1525.3
## + clubHuddersfield      1     44.21 11820 1525.3
## + clubTottenham         1     41.78 11823 1525.4
## + nationalitySerbia      1     39.26 11825 1525.5
## + clubLiverpool         1     36.60 11828 1525.6
## + `clubStoke+City`      1     35.84 11829 1525.7
## + nationalitySpain       1     35.24 11829 1525.7
## + `nationalityThe Gambia` 1     27.38 11837 1526.0
## + `clubWest+Ham`        1     27.27 11837 1526.0
## + positionLM            1     26.93 11838 1526.0
## + nationalityEstonia     1     23.10 11842 1526.1
## + positionCB            1     22.93 11842 1526.2
## + nationalityCanada      1     19.46 11845 1526.3
## + nationalityIceland     1     19.18 11845 1526.3
## + `nationalityTrinidad and Tobago` 1     18.24 11846 1526.3
## + positionGK            1     18.04 11847 1526.3
## + nationalityBermuda     1     16.32 11848 1526.4
## + `clubWest+Brom`       1     15.21 11849 1526.5
## + clubWatford           1     13.29 11851 1526.5
## + `nationalitySouth Korea` 1     12.29 11852 1526.6
## + nationalityFinland     1     12.04 11853 1526.6
## + nationalityVenezuela   1     11.71 11853 1526.6
## + positionLB            1     11.19 11853 1526.6
## + `clubManchester+United` 1      8.67 11856 1526.7
## + `clubBrighton+and+Hove` 1      8.32 11856 1526.7

```


## + nationalityIsrael	1	8.23	11856	1526.7
## + nationalityCuracao	1	8.18	11856	1526.7
## + clubEverton	1	7.55	11857	1526.8
## + nationalityColombia	1	7.03	11858	1526.8
## + clubArsenal	1	6.38	11858	1526.8
## + positionRB	1	5.67	11859	1526.8
## + nationalityArmenia	1	5.22	11859	1526.8
## + positionCM	1	5.10	11860	1526.8
## + nationalityBrazil	1	4.92	11860	1526.8
## + new_signing	1	4.87	11860	1526.8
## + `clubLeicester+City`	1	4.68	11860	1526.9
## + nationalitySweden	1	4.39	11860	1526.9
## + nationalityUruguay	1	4.26	11860	1526.9
## + `nationalityNew Zealand`	1	4.09	11860	1526.9
## + nationalityRomania	1	4.00	11861	1526.9
## + nationalityItaly	1	3.80	11861	1526.9
## + nationalityCameroon	1	3.65	11861	1526.9
## + nationalityMorocco	1	3.52	11861	1526.9
## + `clubCrystal+Palace`	1	3.51	11861	1526.9
## + nationalityChile	1	2.94	11862	1526.9
## + nationalityPortugal	1	2.55	11862	1526.9
## + nationalityGreece	1	2.37	11862	1527.0
## + `nationalityCongo DR`	1	2.33	11862	1527.0
## + nationalityJamaica	1	2.23	11862	1527.0
## + nationalityDenmark	1	2.23	11862	1527.0
## + nationalityGermany	1	1.81	11863	1527.0
## + nationalityPoland	1	1.69	11863	1527.0
## + nationalitySlovenia	1	1.48	11863	1527.0
## + nationalityTunisia	1	1.47	11863	1527.0
## + nationalityEgypt	1	1.43	11863	1527.0
## + clubSwansea	1	1.37	11863	1527.0
## + nationalityWales	1	1.36	11863	1527.0
## + nationalityAustralia	1	1.20	11863	1527.0
## + nationalityBosnia	1	1.18	11863	1527.0
## + nationalityJapan	1	0.83	11864	1527.0
## + `nationalityNorthern Ireland`	1	0.71	11864	1527.0
## + nationalityCroatia	1	0.67	11864	1527.0
## + nationalityIreland	1	0.63	11864	1527.0
## + nationalityGhana	1	0.25	11864	1527.0
## + nationalityNetherlands	1	0.13	11864	1527.0
## + `nationalityUnited States`	1	0.00	11865	1527.0
## + nationalityAustria	1	0.00	11865	1527.0
## + nationalityMali	1	0.00	11865	1527.0
## - clubChelsea	1	200.10	12065	1530.7
## - new_foreign	1	209.90	12074	1531.1
## - nationalityBelgium	1	310.10	12175	1534.9
## - nationalityFrance	1	323.82	12188	1535.4
## - positionSS	1	337.88	12202	1536.0
## - positionCF	1	667.99	12533	1548.2
## - `clubManchester+City`	1	790.34	12655	1552.7
## - big_club	1	957.12	12822	1558.7
## - fpl_points	1	994.38	12859	1560.1
## - fpl_value	1	2050.82	13915	1596.4
## - page_views	1	2228.85	14094	1602.2

```

## - ns(age, 3)                3    2594.76 14459 1610.0
##
## Step:  AIC=1520.71
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##     fpl_points + `clubManchester+City` + positionCF + positionSS +
##     nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##     positionDM
##
##
##              Df Sum of Sq  RSS    AIC
## + position_cat      1    141.52 11561 1517.1
## + nationalityArgentina      1    132.40 11570 1517.5
## + clubBurnley            1    122.68 11580 1517.9
## + positionLW             1    103.79 11599 1518.6
## + nationalityNorway        1    103.55 11599 1518.6
## + clubBournemouth         1    102.40 11600 1518.7
## + club_id              1     90.15 11612 1519.2
## + positionRW             1     87.67 11615 1519.2
## + nationalitySenegal       1     81.22 11621 1519.5
## + clubSouthampton         1     80.98 11622 1519.5
## + positionRM             1     75.94 11626 1519.7
## + nationalityEngland       1     70.70 11632 1519.9
## + nationalityEcuador       1     65.09 11637 1520.2
## + nationalityNigeria      1     62.32 11640 1520.2
## + positionCB             1     59.86 11643 1520.3
## + `nationalityCzech Republic` 1     56.09 11646 1520.5
## <none>                                11702 1520.7
## + `clubNewcastle+United`      1     49.65 11653 1520.8
## + nationalityScotland       1     48.93 11654 1520.8
## + nationalitySwitzerland     1     41.28 11661 1521.1
## + `nationalityCote d'Ivoire`  1     40.78 11662 1521.1
## + positionGK              1     39.15 11663 1521.2
## + clubTottenham           1     38.35 11664 1521.2
## + region                  1     36.88 11666 1521.3
## + clubLiverpool           1     36.85 11666 1521.3
## + nationalitySpain         1     36.41 11666 1521.3
## + clubHuddersfield         1     35.94 11666 1521.3
## + nationalityKenya         1     35.62 11667 1521.3
## + `clubStoke+City`         1     33.23 11669 1521.4
## + `clubWest+Ham`          1     29.01 11674 1521.6
## + `nationalityThe Gambia`    1     25.42 11677 1521.7
## + positionLM              1     23.23 11679 1521.8
## + nationalitySerbia         1     23.09 11679 1521.8
## + `nationalitySouth Korea`   1     21.38 11681 1521.9
## + nationalityEstonia       1     20.18 11682 1521.9
## + nationalityIceland        1     19.66 11683 1521.9
## + `clubWest+Brom`          1     19.14 11683 1522.0
## + nationalityCanada        1     18.00 11684 1522.0
## + positionCM              1     17.65 11685 1522.0
## + `nationalityTrinidad and Tobago` 1     17.57 11685 1522.0
## + nationalityBermuda       1     16.87 11686 1522.0
## + clubWatford             1     16.15 11686 1522.1
## + nationalityFinland       1     13.32 11689 1522.2
## + `clubBrighton+and+Hove`   1     12.73 11690 1522.2
## + `clubManchester+United`   1     11.96 11690 1522.2

```

## + nationalityVenezuela	1	11.57	11691	1522.3
## + nationalityIsrael	1	8.81	11694	1522.4
## + clubArsenal	1	7.56	11695	1522.4
## + nationalityCuracao	1	6.95	11696	1522.4
## + nationalitySweden	1	6.63	11696	1522.5
## + new_signing	1	6.30	11696	1522.5
## + nationalityColombia	1	6.15	11696	1522.5
## + nationalityArmenia	1	5.39	11697	1522.5
## + nationalityCameroon	1	5.18	11697	1522.5
## + nationalityUruguay	1	5.07	11697	1522.5
## + `nationalityNew Zealand`	1	4.95	11698	1522.5
## + clubEverton	1	4.85	11698	1522.5
## + `clubCrystal+Palace`	1	4.72	11698	1522.5
## + nationalityRomania	1	4.54	11698	1522.5
## + nationalityPortugal	1	4.23	11698	1522.5
## + nationalityEgypt	1	4.14	11698	1522.5
## + positionLB	1	3.95	11698	1522.6
## + nationalityMorocco	1	3.92	11698	1522.6
## + nationalityPoland	1	3.46	11699	1522.6
## + nationalityJamaica	1	3.33	11699	1522.6
## + nationalityDenmark	1	3.25	11699	1522.6
## + nationalityWales	1	3.06	11699	1522.6
## + nationalityChile	1	3.05	11699	1522.6
## + nationalityItaly	1	2.70	11700	1522.6
## + `nationalityCongo DR`	1	2.60	11700	1522.6
## + nationalityBosnia	1	2.09	11700	1522.6
## + nationalitySlovenia	1	2.07	11700	1522.6
## + nationalityGreece	1	1.97	11700	1522.6
## + nationalityGhana	1	1.48	11701	1522.7
## + nationalityJapan	1	1.13	11701	1522.7
## + nationalityCroatia	1	1.13	11701	1522.7
## + positionRB	1	1.10	11701	1522.7
## + nationalityGermany	1	1.10	11701	1522.7
## + nationalityTunisia	1	1.09	11701	1522.7
## + `clubLeicester+City`	1	0.92	11702	1522.7
## + nationalityBrazil	1	0.83	11702	1522.7
## + nationalityIreland	1	0.83	11702	1522.7
## + clubSwansea	1	0.68	11702	1522.7
## + nationalityNetherlands	1	0.58	11702	1522.7
## + nationalityAustralia	1	0.49	11702	1522.7
## + `nationalityNorthern Ireland`	1	0.21	11702	1522.7
## + nationalityAustria	1	0.20	11702	1522.7
## + `nationalityUnited States`	1	0.15	11702	1522.7
## + nationalityMali	1	0.02	11702	1522.7
## - positionDM	1	162.16	11865	1525.0
## - new_foreign	1	182.21	11885	1525.8
## - clubChelsea	1	189.45	11892	1526.1
## - nationalityFrance	1	244.11	11947	1528.2
## - nationalityBelgium	1	321.27	12024	1531.2
## - positionSS	1	327.31	12030	1531.4
## - positionCF	1	660.93	12363	1544.0
## - `clubManchester+City`	1	746.35	12449	1547.2
## - fpl_points	1	923.01	12626	1553.6
## - big_club	1	925.65	12628	1553.7

```

## - page_views          1    2067.60 13770 1593.5
## - fpl_value           1    2204.50 13907 1598.1
## - ns(age, 3)          3    2491.27 14194 1603.5
##
## Step: AIC=1517.11
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat
##
##
## Df Sum of Sq  RSS    AIC
## + nationalityArgentina      1    121.46 11440 1514.3
## + clubBurnley               1    114.13 11447 1514.5
## + nationalityNorway          1    106.06 11455 1514.9
## + club_id                   1     99.71 11461 1515.1
## + clubBournemouth           1     94.15 11467 1515.3
## + nationalitySenegal         1     83.15 11478 1515.8
## + clubSouthampton           1     78.48 11482 1516.0
## + positionRM                1     71.02 11490 1516.3
## + nationalityEngland         1     65.32 11496 1516.5
## + nationalityEcuador         1     59.37 11502 1516.8
## + positionCM                1     52.99 11508 1517.0
## + nationalityNigeria        1     52.84 11508 1517.0
## + `nationalityCzech Republic` 1     52.30 11509 1517.0
## + <none>                    1     52.30 11509 1517.0
## + nationalitySwitzerland     1     48.89 11512 1517.2
## + region                    1     40.26 11521 1517.5
## + nationalityKenya           1     40.01 11521 1517.5
## + `clubNewcastle+United`     1     39.96 11521 1517.5
## + clubHuddersfield          1     37.28 11524 1517.6
## + clubTottenham             1     36.94 11524 1517.6
## + `clubStoke+City`          1     34.74 11526 1517.7
## + nationalitySpain           1     33.96 11527 1517.8
## + positionLW                1     32.68 11528 1517.8
## + nationalityScotland        1     31.87 11529 1517.8
## + `nationalityCote d'Ivoire` 1     30.33 11531 1517.9
## + `clubWest+Ham`            1     29.22 11532 1518.0
## + clubLiverpool             1     27.42 11534 1518.0
## + positionRW                1     27.20 11534 1518.0
## + nationalitySerbia          1     26.42 11534 1518.1
## + `nationalityTrinidad and Tobago` 1     24.65 11536 1518.1
## + positionCB                1     23.90 11537 1518.2
## + nationalityBermuda         1     19.57 11541 1518.3
## + positionLB                1     19.50 11541 1518.3
## + nationalityEstonia         1     18.80 11542 1518.4
## + `nationalityThe Gambia`    1     16.58 11544 1518.5
## + positionLM                1     15.39 11546 1518.5
## + nationalityCanada          1     15.17 11546 1518.5
## + clubWatford               1     15.11 11546 1518.5
## + `nationalitySouth Korea`   1     13.95 11547 1518.6
## + nationalityIceland         1     13.47 11548 1518.6
## + `clubWest+Brom`           1     13.35 11548 1518.6
## + nationalityColombia        1     13.20 11548 1518.6
## + `clubBrighton+and+Hove`    1     12.73 11548 1518.6

```

## + nationalityVenezuela	1	12.68	11548	1518.6
## + new_signing	1	12.27	11549	1518.6
## + nationalityIsrael	1	11.52	11549	1518.7
## + clubArsenal	1	11.44	11550	1518.7
## + `clubManchester+United`	1	11.17	11550	1518.7
## + nationalityMorocco	1	10.00	11551	1518.7
## + nationalityCuracao	1	9.06	11552	1518.8
## + nationalityArmenia	1	7.29	11554	1518.8
## + nationalityFinland	1	7.06	11554	1518.8
## + positionRB	1	6.96	11554	1518.8
## + nationalityPortugal	1	6.64	11554	1518.8
## + `clubCrystal+Palace`	1	5.99	11555	1518.9
## + nationalityUruguay	1	4.52	11556	1518.9
## + nationalityAustralia	1	4.35	11557	1518.9
## + `nationalityNew Zealand`	1	3.77	11557	1519.0
## + `nationalityCongo DR`	1	3.59	11557	1519.0
## + nationalityItaly	1	3.56	11557	1519.0
## + nationalityWales	1	3.34	11558	1519.0
## + nationalityCameroon	1	2.86	11558	1519.0
## + nationalitySweden	1	2.85	11558	1519.0
## + nationalityGreece	1	2.67	11558	1519.0
## + nationalityJamaica	1	2.67	11558	1519.0
## + nationalityEgypt	1	2.11	11559	1519.0
## + nationalityTunisia	1	2.00	11559	1519.0
## + clubEverton	1	1.69	11559	1519.0
## + nationalityPoland	1	1.37	11560	1519.1
## + nationalityJapan	1	1.18	11560	1519.1
## + nationalitySlovenia	1	0.96	11560	1519.1
## + nationalityNetherlands	1	0.95	11560	1519.1
## + nationalityCroatia	1	0.94	11560	1519.1
## + nationalityChile	1	0.89	11560	1519.1
## + nationalityDenmark	1	0.78	11560	1519.1
## + nationalityRomania	1	0.74	11560	1519.1
## + nationalityIreland	1	0.70	11560	1519.1
## + nationalityGhana	1	0.58	11560	1519.1
## + nationalityBrazil	1	0.27	11561	1519.1
## + nationalityGermany	1	0.20	11561	1519.1
## + nationalityBosnia	1	0.18	11561	1519.1
## + nationalityMali	1	0.14	11561	1519.1
## + `nationalityNorthern Ireland`	1	0.07	11561	1519.1
## + positionGK	1	0.07	11561	1519.1
## + nationalityAustria	1	0.01	11561	1519.1
## + `nationalityUnited States`	1	0.01	11561	1519.1
## + `clubLeicester+City`	1	0.00	11561	1519.1
## + clubSwansea	1	0.00	11561	1519.1
## - new_foreign	1	122.19	11683	1520.0
## - position_cat	1	141.52	11702	1520.7
## - clubChelsea	1	193.45	11754	1522.8
## - nationalityFrance	1	235.47	11796	1524.4
## - positionDM	1	239.14	11800	1524.5
## - positionSS	1	267.48	11828	1525.6
## - nationalityBelgium	1	307.98	11869	1527.2
## - positionCF	1	473.35	12034	1533.6
## - fpl_points	1	675.32	12236	1541.2

```

## - big_club                1    719.03 12280 1542.9
## - `clubManchester+City`   1    723.10 12284 1543.0
## - page_views              1   1961.59 13522 1587.2
## - fpl_value               1   2182.94 13744 1594.7
## - ns(age, 3)              3   2527.37 14088 1602.1
##
## Step: AIC=1514.26
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat + nationalityArgentina
##
##
##              Df Sum of Sq  RSS    AIC
## + clubBurnley      1    106.78 11333 1511.9
## + nationalityNorway  1     97.18 11342 1512.3
## + nationalitySenegal 1     88.24 11351 1512.7
## + clubBournemouth  1     86.23 11353 1512.8
## + clubSouthampton  1     81.39 11358 1513.0
## + club_id          1     81.22 11358 1513.0
## + positionRM       1     67.37 11372 1513.5
## + positionCM       1     63.00 11376 1513.7
## + nationalityEcuador 1     56.31 11383 1514.0
## + nationalityNigeria 1     51.13 11388 1514.2
## + nationalitySwitzerland 1     50.48 11389 1514.2
## <none>                11440 1514.3
## + `clubNewcastle+United` 1     48.82 11391 1514.3
## + `nationalityCzech Republic` 1     47.86 11392 1514.3
## + nationalityEngland  1     44.51 11395 1514.5
## + nationalitySpain    1     43.98 11396 1514.5
## + `clubStoke+City`    1     40.98 11398 1514.6
## + nationalityKenya    1     40.91 11399 1514.6
## + clubTottenham      1     35.48 11404 1514.8
## + nationalitySerbia   1     29.68 11410 1515.1
## + nationalityScotland 1     29.27 11410 1515.1
## + clubHuddersfield   1     29.14 11410 1515.1
## + positionRW         1     28.72 11411 1515.1
## + positionLW         1     27.96 11412 1515.1
## + `nationalityCote d'Ivoire` 1     27.36 11412 1515.2
## + `nationalityTrinidad and Tobago` 1     22.87 11417 1515.3
## + clubWatford        1     21.88 11418 1515.4
## + positionCB         1     21.02 11418 1515.4
## + clubLiverpool      1     20.92 11419 1515.4
## + `clubWest+Ham`     1     20.55 11419 1515.4
## + nationalityBermuda  1     20.53 11419 1515.4
## + region             1     19.59 11420 1515.5
## + nationalityEstonia  1     17.19 11422 1515.6
## + `nationalityThe Gambia` 1     16.29 11423 1515.6
## + `clubWest+Brom`    1     16.12 11423 1515.6
## + nationalityCanada   1     14.81 11425 1515.7
## + new_signing        1     14.73 11425 1515.7
## + `clubBrighton+and+Hove` 1     14.16 11425 1515.7
## + positionLB         1     13.95 11426 1515.7
## + nationalityVenezuela 1     13.11 11426 1515.7
## + `nationalitySouth Korea` 1     13.04 11426 1515.7

```

## + nationalityIsrael	1	12.84	11427	1515.7
## + nationalityIceland	1	12.65	11427	1515.8
## + positionLM	1	12.32	11427	1515.8
## + nationalityColombia	1	11.33	11428	1515.8
## + nationalityMorocco	1	10.63	11429	1515.8
## + clubArsenal	1	9.39	11430	1515.9
## + nationalityPortugal	1	8.97	11430	1515.9
## + positionRB	1	8.64	11431	1515.9
## + nationalityCuracao	1	8.55	11431	1515.9
## + nationalityFinland	1	8.40	11431	1515.9
## + nationalityArmenia	1	7.93	11432	1515.9
## + `clubManchester+United`	1	5.91	11434	1516.0
## + nationalityUruguay	1	5.21	11434	1516.0
## + `clubCrystal+Palace`	1	5.01	11434	1516.0
## + nationalityWales	1	4.77	11435	1516.1
## + `nationalityCongo DR`	1	4.41	11435	1516.1
## + `nationalityNew Zealand`	1	3.96	11436	1516.1
## + nationalityCameroon	1	3.56	11436	1516.1
## + nationalityJamaica	1	3.37	11436	1516.1
## + nationalitySweden	1	3.24	11436	1516.1
## + nationalityAustralia	1	3.22	11436	1516.1
## + nationalityItaly	1	2.95	11436	1516.1
## + nationalityBrazil	1	2.08	11437	1516.2
## + nationalityGreece	1	2.03	11438	1516.2
## + nationalityChile	1	1.96	11438	1516.2
## + nationalityEgypt	1	1.89	11438	1516.2
## + nationalityIreland	1	1.88	11438	1516.2
## + nationalityPoland	1	1.83	11438	1516.2
## + nationalityTunisia	1	1.66	11438	1516.2
## + nationalityJapan	1	1.48	11438	1516.2
## + nationalityCroatia	1	1.21	11438	1516.2
## + clubEverton	1	1.20	11438	1516.2
## + nationalityDenmark	1	1.18	11438	1516.2
## + nationalityRomania	1	1.11	11438	1516.2
## + nationalityGermany	1	1.08	11438	1516.2
## + nationalitySlovenia	1	0.99	11438	1516.2
## + positionGK	1	0.97	11438	1516.2
## + nationalityGhana	1	0.40	11439	1516.2
## + nationalityBosnia	1	0.33	11439	1516.2
## + nationalityMali	1	0.30	11439	1516.2
## + nationalityNetherlands	1	0.23	11439	1516.2
## + `clubLeicester+City`	1	0.07	11439	1516.2
## + clubSwansea	1	0.05	11439	1516.2
## + nationalityAustria	1	0.04	11439	1516.2
## + `nationalityNorthern Ireland`	1	0.02	11440	1516.3
## + `nationalityUnited States`	1	0.01	11440	1516.3
## - nationalityArgentina	1	121.46	11561	1517.1
## - position_cat	1	130.58	11570	1517.5
## - new_foreign	1	141.34	11581	1517.9
## - clubChelsea	1	186.03	11626	1519.7
## - positionDM	1	234.41	11674	1521.6
## - nationalityFrance	1	249.73	11689	1522.2
## - positionSS	1	297.97	11738	1524.1
## - nationalityBelgium	1	329.54	11769	1525.3

```

## - positionCF                1    474.13 11914 1530.9
## - big_club                  1    680.77 12120 1538.8
## - `clubManchester+City`    1    696.85 12136 1539.5
## - fpl_points                1    717.94 12157 1540.3
## - page_views                1   2028.32 13468 1587.3
## - fpl_value                 1   2075.79 13515 1589.0
## - ns(age, 3)                3   2605.74 14045 1602.7
##
## Step:  AIC=1511.94
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat + nationalityArgentina + clubBurnley
##
##
## Df Sum of Sq  RSS    AIC
## + clubBournemouth          1    103.17 11230 1509.7
## + nationalityNorway          1    101.17 11232 1509.8
## + nationalitySenegal         1     80.87 11252 1510.7
## + positionRM                 1     68.96 11264 1511.1
## + clubSouthampton           1     68.70 11264 1511.1
## + positionCM                 1     67.18 11266 1511.2
## + nationalityEcuador         1     58.15 11274 1511.6
## + nationalityNigeria         1     52.87 11280 1511.8
## + `nationalityCzech Republic` 1     49.47 11283 1511.9
## <none>                      11333 1511.9
## + nationalitySwitzerland     1     46.53 11286 1512.0
## + `clubNewcastle+United`    1     42.23 11290 1512.2
## + club_id                    1     41.39 11291 1512.3
## + nationalityKenya           1     38.56 11294 1512.4
## + nationalitySpain            1     37.85 11295 1512.4
## + nationalityScotland         1     36.96 11296 1512.4
## + clubHuddersfield           1     36.86 11296 1512.4
## + positionLW                 1     34.32 11298 1512.5
## + clubTottenham              1     33.83 11299 1512.6
## + nationalityEngland          1     33.17 11300 1512.6
## + `clubStoke+City`           1     32.19 11300 1512.6
## + positionRW                 1     30.63 11302 1512.7
## + clubWatford                1     29.42 11303 1512.8
## + `nationalityCote d'Ivoire`  1     28.85 11304 1512.8
## + nationalitySerbia           1     26.95 11306 1512.8
## + `nationalityTrinidad and Tobago` 1     23.84 11309 1513.0
## + `clubWest+Brom`            1     23.24 11310 1513.0
## + clubLiverpool              1     21.55 11311 1513.1
## + positionCB                 1     20.26 11312 1513.1
## + nationalityBermuda          1     18.57 11314 1513.2
## + `nationalityThe Gambia`    1     17.63 11315 1513.2
## + nationalityEstonia          1     17.44 11315 1513.2
## + new_signing                 1     16.28 11316 1513.3
## + positionLB                 1     15.19 11318 1513.3
## + `nationalitySouth Korea`   1     14.94 11318 1513.3
## + `clubWest+Ham`             1     14.10 11319 1513.4
## + region                     1     11.26 11321 1513.5
## + nationalityIsrael           1     11.26 11321 1513.5
## + nationalityColombia         1     11.08 11322 1513.5

```


## + nationalityVenezuela	1	11.02	11322	1513.5
## + nationalityIreland	1	10.88	11322	1513.5
## + `clubBrighton+and+Hove`	1	10.37	11322	1513.5
## + positionRB	1	10.17	11322	1513.5
## + nationalityCuracao	1	9.48	11323	1513.6
## + nationalityMorocco	1	9.32	11323	1513.6
## + clubArsenal	1	9.09	11324	1513.6
## + nationalityArmenia	1	8.64	11324	1513.6
## + nationalityPortugal	1	8.15	11324	1513.6
## + nationalityFinland	1	7.95	11325	1513.6
## + `clubManchester+United`	1	6.65	11326	1513.7
## + nationalityWales	1	6.22	11326	1513.7
## + nationalityUruguay	1	4.45	11328	1513.8
## + nationalityIceland	1	4.12	11329	1513.8
## + nationalityItaly	1	3.96	11329	1513.8
## + nationalityAustralia	1	3.93	11329	1513.8
## + `nationalityCongo DR`	1	3.27	11329	1513.8
## + `nationalityNew Zealand`	1	3.17	11330	1513.8
## + nationalityCameroon	1	2.84	11330	1513.8
## + nationalitySweden	1	2.83	11330	1513.8
## + nationalityJamaica	1	2.70	11330	1513.8
## + nationalityGreece	1	2.50	11330	1513.8
## + nationalityCanada	1	2.35	11330	1513.8
## + `clubCrystal+Palace`	1	2.16	11330	1513.8
## + nationalityEgypt	1	2.12	11331	1513.9
## + nationalityChile	1	2.08	11331	1513.9
## + nationalityTunisia	1	1.99	11331	1513.9
## + nationalityBrazil	1	1.91	11331	1513.9
## + positionGK	1	1.34	11331	1513.9
## + positionLM	1	1.30	11331	1513.9
## + nationalityPoland	1	1.21	11332	1513.9
## + clubSwansea	1	1.11	11332	1513.9
## + nationalityGhana	1	1.03	11332	1513.9
## + `clubLeicester+City`	1	1.01	11332	1513.9
## + nationalityCroatia	1	1.01	11332	1513.9
## + nationalityNetherlands	1	0.98	11332	1513.9
## + nationalityRomania	1	0.96	11332	1513.9
## + nationalitySlovenia	1	0.87	11332	1513.9
## + nationalityJapan	1	0.84	11332	1513.9
## + nationalityDenmark	1	0.71	11332	1513.9
## + nationalityGermany	1	0.61	11332	1513.9
## + nationalityBosnia	1	0.32	11332	1513.9
## + clubEverton	1	0.27	11332	1513.9
## + nationalityMali	1	0.14	11333	1513.9
## + `nationalityNorthern Ireland`	1	0.07	11333	1513.9
## + `nationalityUnited States`	1	0.01	11333	1513.9
## + nationalityAustria	1	0.00	11333	1513.9
## - clubBurnley	1	106.78	11440	1514.3
## - nationalityArgentina	1	114.11	11447	1514.5
## - position_cat	1	122.97	11456	1514.9
## - new_foreign	1	143.21	11476	1515.7
## - clubChelsea	1	184.39	11517	1517.4
## - nationalityFrance	1	238.84	11572	1519.5
## - positionDM	1	241.52	11574	1519.6

```

## - positionSS                1    301.80 11634 1522.0
## - nationalityBelgium         1    337.41 11670 1523.4
## - positionCF                 1    449.79 11782 1527.8
## - big_club                   1    645.73 11978 1535.4
## - `clubManchester+City`     1    701.77 12034 1537.6
## - fpl_points                 1    764.22 12097 1540.0
## - page_views                 1   1986.57 13319 1584.2
## - fpl_value                  1   2014.56 13347 1585.2
## - ns(age, 3)                 3   2653.18 13986 1602.7
##
## Step:  AIC=1509.73
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat + nationalityArgentina + clubBurnley +
##   clubBournemouth
##
##
##               Df Sum of Sq  RSS    AIC
## + nationalitySenegal      1    75.38 11154 1508.6
## + positionRM              1    71.95 11158 1508.8
## + positionCM              1    70.78 11159 1508.8
## + nationalityNorway       1    70.33 11159 1508.8
## + nationalityEcuador      1    59.61 11170 1509.3
## + nationalityNigeria     1    57.61 11172 1509.4
## + clubSouthampton        1    53.01 11176 1509.6
## + `nationalityCzech Republic` 1    52.54 11177 1509.6
## <none>                    11230 1509.7
## + clubHuddersfield       1    45.79 11184 1509.9
## + nationalitySwitzerland  1    43.31 11186 1510.0
## + clubWatford            1    39.74 11190 1510.1
## + nationalityScotland    1    39.47 11190 1510.1
## + nationalityKenya       1    38.50 11191 1510.2
## + positionRW             1    35.46 11194 1510.3
## + `clubNewcastle+United` 1    35.04 11194 1510.3
## + `clubWest+Brom`        1    33.24 11196 1510.4
## + clubTottenham          1    32.42 11197 1510.4
## + nationalitySpain        1    31.02 11198 1510.5
## + nationalityEngland      1    25.81 11204 1510.7
## + nationalitySerbia       1    25.41 11204 1510.7
## + positionLW             1    24.96 11205 1510.7
## + `nationalityTrinidad and Tobago` 1    24.58 11205 1510.7
## + clubLiverpool          1    22.76 11207 1510.8
## + `clubStoke+City`       1    21.92 11208 1510.8
## + `nationalityCote d'Ivoire` 1    20.57 11209 1510.9
## + `nationalityThe Gambia` 1    19.59 11210 1510.9
## + nationalityEstonia     1    17.22 11212 1511.0
## + nationalityBermuda     1    17.05 11212 1511.0
## + positionCB             1    16.47 11213 1511.1
## + `nationalitySouth Korea` 1    16.14 11213 1511.1
## + positionLB             1    15.14 11214 1511.1
## + nationalityIreland      1    11.10 11218 1511.3
## + positionRB             1    10.47 11219 1511.3
## + nationalityCuracao     1    10.37 11219 1511.3
## + nationalityIsrael       1    10.27 11219 1511.3

```

## + nationalityColombia	1	10.09	11219	1511.3
## + region	1	9.82	11220	1511.3
## + nationalityArmenia	1	9.72	11220	1511.3
## + nationalityVenezuela	1	8.91	11221	1511.4
## + new_signing	1	8.56	11221	1511.4
## + clubArsenal	1	8.34	11221	1511.4
## + `clubWest+Ham`	1	8.02	11222	1511.4
## + nationalityMorocco	1	7.76	11222	1511.4
## + nationalityFinland	1	7.57	11222	1511.4
## + `clubManchester+United`	1	7.26	11222	1511.4
## + `clubBrighton+and+Hove`	1	7.15	11222	1511.4
## + nationalityPortugal	1	6.73	11223	1511.5
## + `nationalityCongo DR`	1	6.58	11223	1511.5
## + nationalityItaly	1	5.01	11224	1511.5
## + nationalityBosnia	1	5.01	11224	1511.5
## + nationalityIceland	1	4.96	11225	1511.5
## + club_id	1	4.49	11225	1511.5
## + clubSwansea	1	4.29	11225	1511.6
## + nationalityWales	1	3.93	11226	1511.6
## + nationalityUruguay	1	3.61	11226	1511.6
## + nationalityPoland	1	3.60	11226	1511.6
## + `clubLeicester+City`	1	3.31	11226	1511.6
## + nationalityGreece	1	3.28	11226	1511.6
## + nationalitySweden	1	2.56	11227	1511.6
## + `nationalityNew Zealand`	1	2.42	11227	1511.6
## + nationalityCanada	1	2.32	11227	1511.6
## + nationalityTunisia	1	2.27	11227	1511.6
## + nationalityCameroon	1	2.26	11227	1511.6
## + nationalityEgypt	1	2.17	11227	1511.7
## + nationalityGhana	1	2.06	11228	1511.7
## + nationalityJamaica	1	2.04	11228	1511.7
## + nationalityChile	1	1.95	11228	1511.7
## + positionLM	1	1.86	11228	1511.7
## + nationalityBrazil	1	1.66	11228	1511.7
## + nationalityNetherlands	1	1.02	11228	1511.7
## + nationalityRomania	1	0.93	11229	1511.7
## + nationalityCroatia	1	0.89	11229	1511.7
## + `nationalityNorthern Ireland`	1	0.67	11229	1511.7
## + nationalitySlovenia	1	0.57	11229	1511.7
## + positionGK	1	0.50	11229	1511.7
## + nationalityJapan	1	0.37	11229	1511.7
## + nationalityGermany	1	0.36	11229	1511.7
## + `clubCrystal+Palace`	1	0.28	11229	1511.7
## + clubEverton	1	0.26	11229	1511.7
## + nationalityDenmark	1	0.23	11229	1511.7
## + `nationalityUnited States`	1	0.08	11229	1511.7
## + nationalityAustria	1	0.08	11230	1511.7
## + nationalityMali	1	0.06	11230	1511.7
## + nationalityAustralia	1	0.00	11230	1511.7
## - clubBournemouth	1	103.17	11333	1511.9
## - nationalityArgentina	1	105.16	11335	1512.0
## - position_cat	1	114.70	11344	1512.4
## - clubBurnley	1	123.72	11353	1512.8
## - new_foreign	1	146.29	11376	1513.7

```

## - clubChelsea                1      184.06 11414 1515.2
## - positionDM                 1      217.36 11447 1516.5
## - nationalityFrance          1      246.49 11476 1517.7
## - positionSS                 1      283.13 11513 1519.2
## - nationalityBelgium         1      324.52 11554 1520.8
## - positionCF                 1      427.37 11657 1524.9
## - big_club                   1      586.10 11816 1531.1
## - `clubManchester+City`      1      710.90 11940 1536.0
## - fpl_points                 1      831.85 12061 1540.6
## - fpl_value                   1     1937.82 13167 1581.0
## - page_views                 1     1959.32 13189 1581.7
## - ns(age, 3)                 3     2662.79 13892 1601.6
##
## Step:  AIC=1508.64
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat + nationalityArgentina + clubBurnley +
##   clubBournemouth + nationalitySenegal
##
##
##              Df Sum of Sq  RSS    AIC
## + nationalityNorway      1      71.14 11083 1507.7
## + positionRM             1      69.90 11084 1507.7
## + positionCM             1      61.22 11093 1508.1
## + clubSouthampton       1      58.14 11096 1508.2
## + nationalityEcuador     1      57.78 11096 1508.2
## + nationalityNigeria    1      55.99 11098 1508.3
## + `nationalityCzech Republic` 1      52.25 11102 1508.5
## + <none>                  11154 1508.6
## + nationalitySwitzerland 1      45.49 11109 1508.8
## + nationalityKenya       1      39.89 11114 1509.0
## + clubHuddersfield      1      39.60 11114 1509.0
## + clubWatford           1      35.93 11118 1509.2
## + nationalityScotland   1      35.86 11118 1509.2
## + nationalitySpain      1      35.19 11119 1509.2
## + clubTottenham        1      34.07 11120 1509.2
## + `clubNewcastle+United` 1      30.81 11123 1509.4
## + positionRW            1      30.14 11124 1509.4
## + `clubWest+Brom`       1      29.98 11124 1509.4
## + clubLiverpool        1      28.58 11126 1509.5
## + positionLW            1      28.07 11126 1509.5
## + nationalitySerbia     1      27.07 11127 1509.5
## + `nationalityTrinidad and Tobago` 1      23.59 11131 1509.7
## - nationalitySenegal    1      75.38 11230 1509.7
## + `nationalityCote d'Ivoire` 1      20.16 11134 1509.8
## + `nationalityThe Gambia` 1      19.01 11135 1509.8
## + positionCB           1      18.95 11135 1509.8
## + nationalityBermuda    1      18.56 11136 1509.9
## + `clubStoke+City`     1      18.31 11136 1509.9
## + nationalityEngland    1      18.29 11136 1509.9
## + positionLB           1      18.21 11136 1509.9
## + nationalityEstonia    1      16.88 11137 1509.9
## + `nationalitySouth Korea` 1      14.55 11140 1510.0
## + nationalityIreland    1      12.93 11141 1510.1

```

## + nationalityIsrael	1	11.68	11142	1510.2
## + nationalityArmenia	1	10.50	11144	1510.2
## + nationalityVenezuela	1	9.92	11144	1510.2
## + nationalityCuracao	1	9.80	11144	1510.2
## + `clubBrighton+and+Hove`	1	9.72	11144	1510.2
## + nationalityColombia	1	9.58	11145	1510.2
## + positionRB	1	8.99	11145	1510.3
## + nationalityMorocco	1	8.46	11146	1510.3
## + `clubManchester+United`	1	7.92	11146	1510.3
## + nationalityFinland	1	7.91	11146	1510.3
## + `nationalityCongo DR`	1	7.53	11147	1510.3
## + nationalityPortugal	1	6.96	11147	1510.3
## + clubArsenal	1	6.62	11148	1510.4
## + new_signing	1	5.99	11148	1510.4
## + nationalityBosnia	1	5.05	11149	1510.4
## + nationalityWales	1	4.68	11150	1510.4
## + nationalityIceland	1	4.54	11150	1510.5
## + nationalityItaly	1	3.98	11150	1510.5
## + nationalityUruguay	1	3.80	11150	1510.5
## + nationalityGreece	1	3.16	11151	1510.5
## + nationalityPoland	1	3.14	11151	1510.5
## + club_id	1	3.08	11151	1510.5
## + `clubWest+Ham`	1	3.01	11151	1510.5
## + nationalitySweden	1	2.82	11151	1510.5
## + clubSwansea	1	2.82	11151	1510.5
## + `nationalityNew Zealand`	1	2.68	11152	1510.5
## + nationalityCameroon	1	2.67	11152	1510.5
## + nationalityCanada	1	2.29	11152	1510.5
## + nationalityJamaica	1	2.29	11152	1510.5
## + nationalityChile	1	2.08	11152	1510.5
## + nationalityTunisia	1	2.00	11152	1510.5
## + nationalityBrazil	1	1.95	11152	1510.6
## + nationalityEgypt	1	1.89	11152	1510.6
## + `clubLeicester+City`	1	1.82	11152	1510.6
## + positionLM	1	1.61	11152	1510.6
## + nationalityGhana	1	1.47	11153	1510.6
## + nationalityRomania	1	1.13	11153	1510.6
## + nationalityCroatia	1	1.00	11153	1510.6
## + clubEverton	1	0.88	11153	1510.6
## + region	1	0.85	11153	1510.6
## + nationalityGermany	1	0.77	11153	1510.6
## + nationalityJapan	1	0.61	11154	1510.6
## + nationalitySlovenia	1	0.58	11154	1510.6
## + `nationalityNorthern Ireland`	1	0.47	11154	1510.6
## + nationalityNetherlands	1	0.46	11154	1510.6
## + positionGK	1	0.45	11154	1510.6
## + nationalityDenmark	1	0.40	11154	1510.6
## + nationalityMali	1	0.17	11154	1510.6
## + `nationalityUnited States`	1	0.04	11154	1510.6
## + nationalityAustria	1	0.02	11154	1510.6
## + nationalityAustralia	1	0.02	11154	1510.6
## + `clubCrystal+Palace`	1	0.01	11154	1510.6
## - clubBournemouth	1	97.68	11252	1510.7
## - nationalityArgentina	1	109.99	11264	1511.2

```

## - clubBurnley          1    115.56 11270 1511.4
## - position_cat         1    116.60 11271 1511.4
## - new_foreign          1    152.93 11307 1512.9
## - clubChelsea          1    186.69 11341 1514.3
## - positionDM           1    205.07 11359 1515.0
## - nationalityFrance     1    258.16 11412 1517.2
## - positionSS           1    277.70 11432 1518.0
## - nationalityBelgium    1    335.51 11490 1520.3
## - positionCF           1    439.70 11594 1524.4
## - big_club             1    596.95 11751 1530.6
## - `clubManchester+City` 1    719.59 11874 1535.4
## - fpl_points           1    846.52 12001 1540.3
## - fpl_value            1   1912.43 13067 1579.4
## - page_views           1   1965.04 13119 1581.3
## - ns(age, 3)           3   2622.00 13776 1599.8
##
## Step: AIC=1507.69
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat + nationalityArgentina + clubBurnley +
##   clubBournemouth + nationalitySenegal + nationalityNorway
##
##
##           Df Sum of Sq  RSS   AIC
## + positionRM          1    68.43 11015 1506.8
## + positionCM          1    64.15 11019 1507.0
## + clubSouthampton     1    57.52 11026 1507.3
## + nationalityEcuador   1    57.32 11026 1507.3
## + nationalityNigeria   1    55.03 11028 1507.4
## + `nationalityCzech Republic` 1    52.26 11031 1507.5
## <none>                  11083 1507.7
## + nationalitySwitzerland 1    45.61 11037 1507.8
## + nationalityKenya      1    39.09 11044 1508.1
## + clubWatford          1    38.11 11045 1508.1
## + nationalityScotland   1    36.29 11047 1508.2
## + clubHuddersfield     1    36.02 11047 1508.2
## + clubTottenham        1    31.83 11051 1508.4
## + clubLiverpool        1    31.66 11051 1508.4
## + `clubNewcastle+United` 1    30.85 11052 1508.4
## + positionRW           1    30.26 11053 1508.4
## + `clubWest+Brom`      1    30.18 11053 1508.4
## + positionLW           1    29.42 11054 1508.5
## + nationalitySpain      1    29.27 11054 1508.5
## - clubBournemouth     1    67.66 11151 1508.5
## + nationalitySerbia     1    27.22 11056 1508.6
## - nationalityNorway     1    71.14 11154 1508.6
## + `nationalityTrinidad and Tobago` 1    23.45 11060 1508.7
## + nationalityEngland    1    22.16 11061 1508.8
## + `nationalityCote d'Ivoire` 1    21.28 11062 1508.8
## - nationalitySenegal    1    76.19 11159 1508.8
## + positionCB           1    19.67 11063 1508.9
## + positionLB           1    19.34 11064 1508.9
## + nationalityBermuda    1    19.09 11064 1508.9
## + `nationalityThe Gambia` 1    18.83 11064 1508.9

```

## + `clubStoke+City`	1	16.46	11066	1509.0
## + nationalityEstonia	1	16.19	11067	1509.0
## + `nationalitySouth Korea`	1	14.49	11068	1509.1
## + nationalityIreland	1	13.17	11070	1509.2
## + nationalityIsrael	1	12.60	11070	1509.2
## + `clubBrighton+and+Hove`	1	11.93	11071	1509.2
## + nationalityArmenia	1	11.63	11071	1509.2
## + `clubManchester+United`	1	10.41	11073	1509.3
## + nationalityCuracao	1	9.58	11073	1509.3
## + positionRB	1	9.48	11074	1509.3
## + nationalityVenezuela	1	9.31	11074	1509.3
## + nationalityColombia	1	9.22	11074	1509.3
## + nationalityMorocco	1	8.56	11074	1509.3
## + nationalityFinland	1	8.42	11075	1509.3
## + nationalityPortugal	1	6.91	11076	1509.4
## + `nationalityCongo DR`	1	6.56	11076	1509.4
## + clubArsenal	1	6.30	11077	1509.4
## + new_signing	1	5.80	11077	1509.5
## + nationalityIceland	1	5.12	11078	1509.5
## + nationalityWales	1	4.79	11078	1509.5
## + nationalityBosnia	1	4.39	11079	1509.5
## + nationalityUruguay	1	3.82	11079	1509.5
## + nationalityItaly	1	3.51	11080	1509.5
## + nationalityGreece	1	3.22	11080	1509.6
## + nationalitySweden	1	3.14	11080	1509.6
## + `clubWest+Ham`	1	3.10	11080	1509.6
## + nationalityCameroon	1	2.77	11080	1509.6
## + nationalityJamaica	1	2.62	11080	1509.6
## + `nationalityNew Zealand`	1	2.59	11080	1509.6
## + clubSwansea	1	2.50	11080	1509.6
## + club_id	1	2.38	11081	1509.6
## + nationalityPoland	1	2.28	11081	1509.6
## + nationalityCanada	1	2.24	11081	1509.6
## + nationalityEgypt	1	1.82	11081	1509.6
## + nationalityChile	1	1.82	11081	1509.6
## + clubEverton	1	1.81	11081	1509.6
## + nationalityTunisia	1	1.80	11081	1509.6
## + `clubLeicester+City`	1	1.51	11082	1509.6
## + nationalityGhana	1	1.45	11082	1509.6
## + positionLM	1	1.39	11082	1509.6
## + nationalityRomania	1	1.32	11082	1509.6
## + nationalityGermany	1	1.08	11082	1509.7
## + region	1	1.07	11082	1509.7
## + nationalityCroatia	1	0.90	11082	1509.7
## + nationalityBrazil	1	0.90	11082	1509.7
## + nationalitySlovenia	1	0.66	11082	1509.7
## + nationalityJapan	1	0.63	11082	1509.7
## + nationalityNetherlands	1	0.54	11082	1509.7
## + `nationalityNorthern Ireland`	1	0.50	11082	1509.7
## + positionGK	1	0.48	11082	1509.7
## + nationalityDenmark	1	0.39	11083	1509.7
## + nationalityMali	1	0.25	11083	1509.7
## + `nationalityUnited States`	1	0.02	11083	1509.7
## + nationalityAustria	1	0.01	11083	1509.7

```

## + `clubCrystal+Palace`          1      0.01 11083 1509.7
## + nationalityAustralia          1      0.01 11083 1509.7
## - nationalityArgentina          1    103.86 11187 1510.0
## - clubBurnley                   1    116.39 11199 1510.5
## - position_cat                  1    119.90 11203 1510.6
## - positionSS                   1    147.64 11231 1511.8
## - new_foreign                   1    152.91 11236 1512.0
## - clubChelsea                   1    187.69 11271 1513.4
## - positionDM                   1    211.54 11295 1514.4
## - nationalityFrance             1    261.00 11344 1516.4
## - nationalityBelgium           1    329.38 11412 1519.2
## - positionCF                   1    436.65 11520 1523.5
## - big_club                     1    605.11 11688 1530.2
## - `clubManchester+City`        1    720.43 11803 1534.7
## - fpl_points                   1    884.74 11968 1541.0
## - page_views                   1   1836.47 12920 1576.2
## - fpl_value                    1   1944.92 13028 1580.1
## - ns(age, 3)                   3   2643.16 13726 1600.1
##
## Step: AIC=1506.84
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat + nationalityArgentina + clubBurnley +
##   clubBournemouth + nationalitySenegal + nationalityNorway +
##   positionRM
##
##                                     Df Sum of Sq  RSS    AIC
## + clubSouthampton                 1     68.17 10946 1506.0
## + nationalityEcuador               1     58.51 10956 1506.4
## + positionCM                      1     55.64 10959 1506.5
## + `nationalityCzech Republic`     1     53.16 10961 1506.6
## <none>                             1     53.16 11015 1506.8
## + nationalitySwitzerland           1     45.00 10970 1507.0
## + clubHuddersfield                 1     42.50 10972 1507.1
## + clubWatford                     1     39.98 10975 1507.2
## + nationalityKenya                 1     39.65 10975 1507.2
## + positionRW                      1     38.07 10976 1507.2
## + nationalityNigeria              1     36.67 10978 1507.3
## + positionLW                      1     36.43 10978 1507.3
## + `clubNewcastle+United`          1     36.13 10978 1507.3
## + clubLiverpool                   1     33.37 10981 1507.5
## + `clubWest+Brom`                 1     30.23 10984 1507.6
## + clubTottenham                   1     29.64 10985 1507.6
## - positionRM                      1     68.43 11083 1507.7
## + nationalityScotland              1     26.83 10988 1507.7
## + nationalitySpain                 1     26.69 10988 1507.7
## + nationalitySerbia                1     26.34 10988 1507.7
## - nationalityNorway                1     69.67 11084 1507.7
## - clubBournemouth                 1     70.30 11085 1507.8
## + `nationalityTrinidad and Tobago` 1     24.49 10990 1507.8
## + `nationalityCote d'Ivoire`      1     22.26 10992 1507.9
## + positionLB                      1     22.03 10993 1507.9
## - nationalitySenegal               1     74.15 11089 1507.9

```


## + `nationalityThe Gambia`	1	19.86	10995	1508.0
## + nationalityEngland	1	19.71	10995	1508.0
## + nationalityBermuda	1	18.81	10996	1508.1
## + nationalityEstonia	1	16.36	10998	1508.2
## + `clubStoke+City`	1	15.72	10999	1508.2
## + positionCB	1	15.53	10999	1508.2
## + `clubBrighton+and+Hove`	1	15.27	10999	1508.2
## + `nationalitySouth Korea`	1	15.09	11000	1508.2
## + nationalityIsrael	1	12.16	11002	1508.3
## + nationalityIreland	1	12.03	11003	1508.3
## + nationalityArmenia	1	10.71	11004	1508.4
## + positionRB	1	10.67	11004	1508.4
## + nationalityCuracao	1	10.00	11005	1508.4
## + nationalityColombia	1	9.63	11005	1508.4
## + nationalityVenezuela	1	9.55	11005	1508.5
## + `clubManchester+United`	1	9.08	11006	1508.5
## + nationalityFinland	1	8.24	11006	1508.5
## + nationalityMorocco	1	7.89	11007	1508.5
## + nationalityPortugal	1	6.15	11008	1508.6
## + `nationalityCongo DR`	1	5.83	11009	1508.6
## + new_signing	1	5.63	11009	1508.6
## + nationalityIceland	1	5.50	11009	1508.6
## + nationalityWales	1	4.42	11010	1508.7
## + nationalityBosnia	1	4.37	11010	1508.7
## + clubArsenal	1	3.95	11011	1508.7
## + nationalityItaly	1	3.86	11011	1508.7
## + nationalityUruguay	1	3.84	11011	1508.7
## + nationalityGreece	1	3.18	11011	1508.7
## + clubSwansea	1	3.11	11012	1508.7
## + nationalitySweden	1	3.00	11012	1508.7
## + nationalityPoland	1	2.72	11012	1508.7
## + `clubWest+Ham`	1	2.69	11012	1508.7
## + `nationalityNew Zealand`	1	2.60	11012	1508.7
## + nationalityCameroon	1	2.51	11012	1508.7
## + nationalityJamaica	1	2.51	11012	1508.7
## + nationalityCanada	1	2.31	11012	1508.8
## + clubEverton	1	2.20	11012	1508.8
## + nationalityEgypt	1	1.95	11013	1508.8
## + nationalityTunisia	1	1.91	11013	1508.8
## + nationalityGhana	1	1.81	11013	1508.8
## + nationalityChile	1	1.79	11013	1508.8
## + positionLM	1	1.75	11013	1508.8
## + `clubLeicester+City`	1	1.75	11013	1508.8
## + club_id	1	1.50	11013	1508.8
## + nationalityRomania	1	1.21	11013	1508.8
## + region	1	0.96	11014	1508.8
## + nationalityNetherlands	1	0.93	11014	1508.8
## + nationalityCroatia	1	0.89	11014	1508.8
## + nationalityJapan	1	0.65	11014	1508.8
## + nationalityBrazil	1	0.64	11014	1508.8
## + positionGK	1	0.60	11014	1508.8
## + `nationalityNorthern Ireland`	1	0.59	11014	1508.8
## + nationalityGermany	1	0.58	11014	1508.8
## + nationalitySlovenia	1	0.57	11014	1508.8

```

## + nationalityDenmark          1      0.25 11014 1508.8
## + nationalityMali              1      0.13 11014 1508.8
## + nationalityAustralia         1      0.05 11014 1508.8
## + `nationalityUnited States`  1      0.05 11014 1508.8
## + nationalityAustria          1      0.03 11015 1508.8
## + `clubCrystal+Palace`        1      0.01 11015 1508.8
## - nationalityArgentina         1    100.30 11115 1509.0
## - position_cat                1    115.38 11130 1509.6
## - clubBurnley                 1    118.38 11133 1509.8
## - new_foreign                 1    141.03 11156 1510.7
## - positionSS                  1    153.55 11168 1511.2
## - positionDM                  1    198.75 11213 1513.1
## - clubChelsea                 1    205.38 11220 1513.3
## - nationalityFrance            1    275.23 11290 1516.2
## - nationalityBelgium           1    321.58 11336 1518.1
## - positionCF                  1    458.53 11473 1523.6
## - big_club                    1    600.96 11616 1529.3
## - `clubManchester+City`       1    717.70 11732 1533.9
## - fpl_points                  1    846.58 11861 1538.9
## - page_views                  1   1850.76 12865 1576.3
## - fpl_value                   1   1960.42 12975 1580.2
## - ns(age, 3)                  3   2680.70 13695 1601.0
##
## Step: AIC=1505.99
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat + nationalityArgentina + clubBurnley +
##   clubBournemouth + nationalitySenegal + nationalityNorway +
##   positionRM + clubSouthampton
##
##
## Df Sum of Sq  RSS  AIC
## + nationalityEcuador          1    57.74 10889 1505.6
## + positionCM                  1    54.06 10892 1505.7
## + `nationalityCzech Republic`  1    52.20 10894 1505.8
## + nationalitySwitzerland       1    49.53 10897 1505.9
## <none>                        1    49.53 10946 1506.0
## + `clubNewcastle+United`      1    43.45 10903 1506.2
## + nationalityKenya             1    40.63 10906 1506.3
## - clubBournemouth             1    56.43 11003 1506.3
## + positionRW                  1    37.50 10909 1506.4
## + clubHuddersfield            1    34.44 10912 1506.5
## + positionLW                  1    33.12 10913 1506.6
## + clubLiverpool               1    32.89 10914 1506.6
## + clubWatford                 1    31.49 10915 1506.7
## + nationalityNigeria          1    30.88 10916 1506.7
## + clubTottenham               1    30.76 10916 1506.7
## + nationalitySerbia            1    28.33 10918 1506.8
## - clubSouthampton            1    68.17 11015 1506.8
## + nationalitySpain            1    27.05 10919 1506.8
## - nationalityNorway            1    68.88 11015 1506.9
## + `nationalityTrinidad and Tobago` 1    23.33 10923 1507.0
## + `clubWest+Brom`             1    22.34 10924 1507.0
## + `clubStoke+City`            1    22.33 10924 1507.0

```

## + positionLB	1	22.02	10924	1507.1
## + `nationalityCote d'Ivoire`	1	21.59	10925	1507.1
## + nationalityScotland	1	20.30	10926	1507.1
## + nationalityEngland	1	20.22	10926	1507.1
## + nationalityBermuda	1	19.84	10927	1507.2
## + `clubBrighton+and+Hove`	1	19.36	10927	1507.2
## + `nationalityThe Gambia`	1	18.23	10928	1507.2
## + nationalityEstonia	1	17.21	10929	1507.3
## - positionRM	1	79.08	11026	1507.3
## - nationalitySenegal	1	79.53	11026	1507.3
## + positionCB	1	14.11	10932	1507.4
## + `nationalitySouth Korea`	1	13.65	10933	1507.4
## + nationalityIsrael	1	12.77	10934	1507.5
## + nationalityIreland	1	11.23	10935	1507.5
## + nationalityVenezuela	1	11.20	10935	1507.5
## + nationalityColombia	1	10.33	10936	1507.5
## + nationalityArmenia	1	9.89	10936	1507.6
## + nationalityCuracao	1	9.13	10937	1507.6
## + positionRB	1	8.79	10938	1507.6
## + `clubManchester+United`	1	8.59	10938	1507.6
## + nationalityFinland	1	8.45	10938	1507.6
## + nationalityItaly	1	7.36	10939	1507.7
## + `nationalityCongo DR`	1	7.19	10939	1507.7
## + nationalityWales	1	6.21	10940	1507.7
## + `clubWest+Ham`	1	6.02	10940	1507.7
## + new_signing	1	5.47	10941	1507.8
## + nationalityIceland	1	4.60	10942	1507.8
## + nationalityUruguay	1	4.34	10942	1507.8
## + clubArsenal	1	4.16	10942	1507.8
## + nationalityBosnia	1	4.03	10942	1507.8
## + positionLM	1	3.64	10943	1507.8
## + nationalitySweden	1	3.55	10943	1507.8
## + `nationalityNew Zealand`	1	3.26	10943	1507.8
## + nationalityCameroon	1	3.05	10943	1507.9
## + nationalityMorocco	1	3.02	10943	1507.9
## + nationalityJamaica	1	2.90	10944	1507.9
## + nationalityGreece	1	2.75	10944	1507.9
## + nationalityCanada	1	2.34	10944	1507.9
## + nationalityChile	1	1.79	10945	1507.9
## + nationalityTunisia	1	1.69	10945	1507.9
## + nationalityNetherlands	1	1.68	10945	1507.9
## + region	1	1.68	10945	1507.9
## + `nationalityNorthern Ireland`	1	1.43	10945	1507.9
## + nationalityEgypt	1	1.41	10945	1507.9
## + nationalityRomania	1	1.33	10945	1507.9
## + nationalityPortugal	1	1.32	10945	1507.9
## + nationalityGermany	1	1.00	10945	1508.0
## + nationalitySlovenia	1	0.95	10946	1508.0
## + nationalityCroatia	1	0.93	10946	1508.0
## + nationalityGhana	1	0.81	10946	1508.0
## + clubSwansea	1	0.79	10946	1508.0
## + nationalityBrazil	1	0.67	10946	1508.0
## + nationalityPoland	1	0.66	10946	1508.0
## + club_id	1	0.45	10946	1508.0

```

## + positionGK                1      0.43 10946 1508.0
## + `clubCrystal+Palace`      1      0.43 10946 1508.0
## + clubEverton                1      0.26 10946 1508.0
## + nationalityMali            1      0.24 10946 1508.0
## + `clubLeicester+City`      1      0.21 10946 1508.0
## + nationalityJapan           1      0.09 10946 1508.0
## + nationalityAustralia       1      0.03 10946 1508.0
## + nationalityDenmark         1      0.02 10946 1508.0
## + `nationalityUnited States` 1      0.00 10946 1508.0
## + nationalityAustria         1      0.00 10946 1508.0
## - clubBurnley               1    103.25 11050 1508.3
## - nationalityArgentina       1    103.77 11050 1508.3
## - position_cat              1    113.96 11060 1508.8
## - new_foreign               1    134.75 11081 1509.6
## - positionSS                1    148.70 11095 1510.2
## - positionDM                1    195.06 11142 1512.1
## - clubChelsea               1    207.10 11154 1512.6
## - nationalityFrance          1    275.58 11222 1515.4
## - nationalityBelgium         1    330.74 11277 1517.7
## - positionCF                1    466.34 11413 1523.2
## - big_club                  1    650.65 11597 1530.5
## - `clubManchester+City`     1    713.07 11660 1533.0
## - fpl_points                1    781.19 11728 1535.7
## - page_views                1   1872.24 12819 1576.6
## - fpl_value                 1   1973.12 12920 1580.2
## - ns(age, 3)                3   2606.28 13553 1598.2
##
## Step: AIC=1505.56
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat + nationalityArgentina + clubBurnley +
##   clubBournemouth + nationalitySenegal + nationalityNorway +
##   positionRM + clubSouthampton + nationalityEcuador
##
##
## Df Sum of Sq  RSS    AIC
## + `nationalityCzech Republic`  1    53.10 10836 1505.3
## + positionCM                   1    49.37 10839 1505.5
## + nationalitySwitzerland        1    48.96 10840 1505.5
## <none>                          1    48.96 10840 1505.5
## + `clubNewcastle+United`      1    42.46 10846 1505.8
## + positionRW                   1    41.53 10847 1505.8
## + nationalityKenya              1    40.11 10849 1505.9
## - clubBournemouth              1    57.69 10946 1506.0
## + clubLiverpool                1    37.07 10852 1506.0
## - nationalityEcuador           1    57.74 10946 1506.0
## + clubHuddersfield             1    36.23 10852 1506.0
## + clubWatford                  1    32.67 10856 1506.2
## + nationalityNigeria           1    30.69 10858 1506.3
## + nationalitySerbia             1    28.02 10861 1506.4
## + clubTottenham                1    27.94 10861 1506.4
## - clubSouthampton             1    67.40 10956 1506.4
## - nationalityNorway            1    68.42 10957 1506.4
## + positionLW                   1    25.37 10863 1506.5

```

## + nationalitySpain	1	24.96	10864	1506.5
## + nationalityEngland	1	23.78	10865	1506.5
## + `nationalityTrinidad and Tobago`	1	23.56	10865	1506.6
## + `clubWest+Brom`	1	23.55	10865	1506.6
## + positionLB	1	23.47	10865	1506.6
## + `nationalityCote d'Ivoire`	1	22.28	10866	1506.6
## + `clubStoke+City`	1	21.40	10867	1506.7
## + nationalityScotland	1	21.39	10867	1506.7
## + nationalityBermuda	1	19.69	10869	1506.7
## + `nationalityThe Gambia`	1	18.46	10870	1506.8
## + nationalityEstonia	1	18.02	10871	1506.8
## + `clubBrighton+and+Hove`	1	17.96	10871	1506.8
## - nationalitySenegal	1	77.60	10966	1506.8
## + `clubManchester+United`	1	15.81	10873	1506.9
## - positionRM	1	80.28	10969	1506.9
## + `nationalitySouth Korea`	1	14.46	10874	1506.9
## + positionCB	1	12.46	10876	1507.0
## + nationalityIsrael	1	12.23	10876	1507.0
## + nationalityVenezuela	1	11.12	10878	1507.1
## + nationalityColombia	1	10.85	10878	1507.1
## + nationalityIreland	1	10.56	10878	1507.1
## + nationalityCuracao	1	9.30	10879	1507.2
## + nationalityArmenia	1	9.14	10880	1507.2
## + nationalityFinland	1	8.26	10880	1507.2
## + nationalityItaly	1	7.66	10881	1507.2
## + `nationalityCongo DR`	1	6.99	10882	1507.3
## + clubArsenal	1	5.88	10883	1507.3
## + nationalityWales	1	5.53	10883	1507.3
## + `clubWest+Ham`	1	5.48	10883	1507.3
## + nationalityIceland	1	4.89	10884	1507.3
## + new_signing	1	4.72	10884	1507.4
## + positionRB	1	4.64	10884	1507.4
## + nationalityUruguay	1	4.16	10884	1507.4
## + positionLM	1	4.11	10885	1507.4
## + nationalityBosnia	1	3.88	10885	1507.4
## + region	1	3.47	10885	1507.4
## + nationalitySweden	1	3.35	10885	1507.4
## + `nationalityNew Zealand`	1	3.11	10886	1507.4
## + nationalityGreece	1	2.88	10886	1507.4
## + nationalityMorocco	1	2.78	10886	1507.4
## + nationalityCameroon	1	2.77	10886	1507.4
## + nationalityJamaica	1	2.69	10886	1507.4
## + nationalityCanada	1	2.43	10886	1507.5
## + nationalityNetherlands	1	2.11	10887	1507.5
## + nationalityTunisia	1	1.83	10887	1507.5
## + `nationalityNorthern Ireland`	1	1.66	10887	1507.5
## + nationalityEgypt	1	1.58	10887	1507.5
## + nationalityChile	1	1.57	10887	1507.5
## + nationalityRomania	1	1.24	10887	1507.5
## + nationalityPortugal	1	1.17	10888	1507.5
## + club_id	1	1.10	10888	1507.5
## + nationalitySlovenia	1	0.99	10888	1507.5
## + nationalityGhana	1	0.85	10888	1507.5
## + nationalityCroatia	1	0.77	10888	1507.5

```

## + nationalityGermany          1      0.76 10888 1507.5
## + nationalityPoland            1      0.73 10888 1507.5
## + positionGK                  1      0.56 10888 1507.5
## + nationalityBrazil            1      0.54 10888 1507.5
## + clubEverton                 1      0.32 10888 1507.5
## + `clubLeicester+City`        1      0.31 10888 1507.5
## + `clubCrystal+Palace`        1      0.30 10888 1507.5
## + nationalityMali              1      0.17 10888 1507.5
## + nationalityJapan             1      0.11 10889 1507.5
## + nationalityAustralia         1      0.03 10889 1507.5
## + clubSwansea                 1      0.02 10889 1507.6
## + nationalityAustria          1      0.01 10889 1507.6
## + nationalityDenmark           1      0.01 10889 1507.6
## + `nationalityUnited States`  1      0.00 10889 1507.6
## - nationalityArgentina         1    100.72 10989 1507.8
## - clubBurnley                 1    105.34 10994 1508.0
## - position_cat                1    108.86 10998 1508.1
## - new_foreign                 1    132.95 11022 1509.1
## - positionSS                  1    151.26 11040 1509.9
## - positionDM                  1    190.60 11079 1511.5
## - clubChelsea                 1    201.24 11090 1512.0
## - nationalityFrance            1    271.12 11160 1514.9
## - nationalityBelgium           1    324.03 11213 1517.0
## - positionCF                  1    478.67 11367 1523.3
## - big_club                    1    667.21 11556 1530.9
## - `clubManchester+City`       1    698.74 11587 1532.2
## - fpl_points                  1    776.68 11665 1535.2
## - page_views                  1   1865.39 12754 1576.3
## - fpl_value                   1   1980.38 12869 1580.4
## - ns(age, 3)                  3   2592.27 13481 1597.8
##
## Step: AIC=1505.31
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat + nationalityArgentina + clubBurnley +
##   clubBournemouth + nationalitySenegal + nationalityNorway +
##   positionRM + clubSouthampton + nationalityEcuador + `nationalityCzech Republic`
##
##
## Df Sum of Sq  RSS    AIC
## + nationalitySwitzerland      1     47.95 10788 1505.3
## <none>                        1    10836 1505.3
## + positionCM                  1     45.67 10790 1505.4
## + positionRW                  1     43.83 10792 1505.4
## + `clubNewcastle+United`      1     41.31 10794 1505.5
## - `nationalityCzech Republic`  1     53.10 10889 1505.6
## + clubLiverpool              1     40.96 10795 1505.6
## + nationalityKenya             1     39.52 10796 1505.6
## + clubHuddersfield            1     38.09 10798 1505.7
## - nationalityEcuador           1     58.63 10894 1505.8
## - clubBournemouth             1     60.08 10896 1505.8
## + clubWatford                 1     33.48 10802 1505.9
## + nationalityNigeria          1     30.80 10805 1506.0
## + `clubBrighton+and+Hove`     1     28.55 10807 1506.1

```

## + nationalityEngland	1	28.23	10807	1506.1
## - clubSouthampton	1	66.43	10902	1506.1
## + nationalitySerbia	1	27.80	10808	1506.1
## - nationalityNorway	1	68.42	10904	1506.2
## + clubTottenham	1	24.89	10811	1506.2
## + positionLB	1	24.84	10811	1506.2
## + `clubWest+Brom`	1	24.65	10811	1506.3
## + `nationalityTrinidad and Tobago`	1	23.72	10812	1506.3
## + nationalitySpain	1	23.57	10812	1506.3
## + `nationalityCote d'Ivoire`	1	23.33	10812	1506.3
## + nationalityScotland	1	22.18	10813	1506.4
## + `clubStoke+City`	1	20.14	10815	1506.5
## + nationalityBermuda	1	19.74	10816	1506.5
## + `nationalityThe Gambia`	1	18.97	10817	1506.5
## + nationalityEstonia	1	18.60	10817	1506.5
## + positionLW	1	17.48	10818	1506.6
## - nationalitySenegal	1	77.24	10913	1506.6
## + `nationalitySouth Korea`	1	14.76	10821	1506.7
## + `clubManchester+United`	1	13.74	10822	1506.7
## - positionRM	1	81.17	10917	1506.7
## + nationalityIsrael	1	12.30	10823	1506.8
## + nationalityVenezuela	1	11.13	10824	1506.8
## + nationalityColombia	1	11.02	10825	1506.8
## + positionCB	1	10.30	10825	1506.9
## + nationalityIreland	1	9.80	10826	1506.9
## + nationalityCuracao	1	9.33	10826	1506.9
## + nationalityArmenia	1	8.93	10827	1506.9
## + nationalityFinland	1	8.07	10828	1507.0
## + nationalityItaly	1	7.74	10828	1507.0
## + `nationalityCongo DR`	1	6.78	10829	1507.0
## + positionRB	1	5.44	10830	1507.1
## + `clubWest+Ham`	1	5.17	10830	1507.1
## + nationalityIceland	1	5.01	10831	1507.1
## + nationalityWales	1	4.98	10831	1507.1
## + positionLM	1	4.66	10831	1507.1
## + nationalityUruguay	1	3.96	10832	1507.1
## + nationalityBosnia	1	3.87	10832	1507.1
## + new_signing	1	3.86	10832	1507.1
## + region	1	3.75	10832	1507.2
## + nationalitySweden	1	3.29	10832	1507.2
## + nationalityGreece	1	3.16	10832	1507.2
## + `nationalityNew Zealand`	1	3.12	10832	1507.2
## + nationalityCameroon	1	2.64	10833	1507.2
## + nationalityMorocco	1	2.64	10833	1507.2
## + clubArsenal	1	2.59	10833	1507.2
## + nationalityNetherlands	1	2.55	10833	1507.2
## + nationalityJamaica	1	2.51	10833	1507.2
## + nationalityCanada	1	2.37	10833	1507.2
## + `nationalityNorthern Ireland`	1	2.10	10834	1507.2
## + nationalityTunisia	1	1.83	10834	1507.2
## + nationalityEgypt	1	1.73	10834	1507.2
## + nationalityChile	1	1.33	10834	1507.2
## + nationalityRomania	1	1.28	10834	1507.2
## + nationalitySlovenia	1	0.97	10835	1507.3

```

## + nationalityGhana          1      0.97 10835 1507.3
## + nationalityPortugal       1      0.93 10835 1507.3
## + nationalityCroatia        1      0.70 10835 1507.3
## + nationalityGermany        1      0.56 10835 1507.3
## + nationalityPoland         1      0.50 10835 1507.3
## + clubEverton              1      0.43 10835 1507.3
## + nationalityBrazil         1      0.38 10835 1507.3
## + `clubLeicester+City`      1      0.32 10835 1507.3
## + nationalityMali           1      0.15 10835 1507.3
## + `clubCrystal+Palace`     1      0.15 10835 1507.3
## + nationalityJapan          1      0.11 10836 1507.3
## + nationalityAustralia      1      0.04 10836 1507.3
## + club_id                  1      0.04 10836 1507.3
## + nationalityAustria        1      0.02 10836 1507.3
## + `nationalityUnited States` 1      0.02 10836 1507.3
## + positionGK               1      0.00 10836 1507.3
## + nationalityDenmark        1      0.00 10836 1507.3
## + clubSwansea              1      0.00 10836 1507.3
## - nationalityArgentina      1     96.22 10932 1507.4
## - position_cat             1    105.49 10941 1507.8
## - clubBurnley              1    107.37 10943 1507.8
## - new_foreign              1    131.56 10967 1508.9
## - positionSS               1    152.36 10988 1509.7
## - positionDM               1    184.69 11020 1511.1
## - clubChelsea              1    195.02 11031 1511.5
## - nationalityFrance         1    268.04 11104 1514.5
## - nationalityBelgium        1    320.61 11156 1516.7
## - positionCF               1    485.19 11321 1523.5
## - big_club                 1    684.44 11520 1531.5
## - `clubManchester+City`    1    686.51 11522 1531.6
## - fpl_points               1    781.81 11617 1535.3
## - page_views               1   1859.91 12696 1576.2
## - fpl_value                1   1973.68 12809 1580.3
## - ns(age, 3)               3   2553.27 13389 1596.6
##
## Step: AIC=1505.27
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat + nationalityArgentina + clubBurnley +
##   clubBournemouth + nationalitySenegal + nationalityNorway +
##   positionRM + clubSouthampton + nationalityEcuador + `nationalityCzech Republic` +
##   nationalitySwitzerland
##
##
## Df Sum of Sq  RSS  AIC
## + positionRW          1    49.70 10738 1505.1
## <none>                  10788 1505.3
## - nationalitySwitzerland 1    47.95 10836 1505.3
## + `clubNewcastle+United` 1    42.90 10745 1505.4
## + nationalityKenya       1    42.71 10745 1505.4
## + positionCM            1    42.18 10746 1505.5
## - `nationalityCzech Republic` 1    52.09 10840 1505.5
## + clubWatford          1    40.55 10747 1505.5
## + clubLiverpool        1    37.99 10750 1505.6

```


## - clubBournemouth	1	57.02	10845	1505.7
## + clubHuddersfield	1	35.93	10752	1505.7
## - nationalityEcuador	1	58.05	10846	1505.7
## + nationalitySerbia	1	30.11	10758	1506.0
## + `clubBrighton+and+Hove`	1	29.46	10758	1506.0
## + nationalityNigeria	1	28.66	10759	1506.0
## + clubTottenham	1	27.03	10761	1506.1
## - nationalityNorway	1	68.53	10856	1506.2
## + nationalitySpain	1	24.93	10763	1506.2
## + positionLB	1	24.22	10763	1506.2
## + `nationalityTrinidad and Tobago`	1	23.61	10764	1506.3
## - clubSouthampton	1	70.84	10858	1506.3
## + `nationalityCote d'Ivoire`	1	22.53	10765	1506.3
## + `clubWest+Brom`	1	22.11	10766	1506.3
## + nationalityEngland	1	22.06	10766	1506.3
## + nationalityScotland	1	20.59	10767	1506.4
## + nationalityBermuda	1	19.83	10768	1506.4
## + nationalityEstonia	1	18.62	10769	1506.5
## + `nationalityThe Gambia`	1	18.18	10769	1506.5
## + `clubStoke+City`	1	15.46	10772	1506.6
## + `clubManchester+United`	1	15.44	10772	1506.6
## + positionLW	1	14.65	10773	1506.6
## - nationalitySenegal	1	79.70	10867	1506.7
## + `nationalitySouth Korea`	1	13.28	10774	1506.7
## - positionRM	1	80.86	10868	1506.7
## + nationalityIsrael	1	12.32	10775	1506.7
## + nationalityVenezuela	1	11.35	10776	1506.8
## + nationalityColombia	1	11.31	10776	1506.8
## + positionCB	1	10.96	10777	1506.8
## + nationalityIreland	1	10.43	10777	1506.8
## + nationalityCuracao	1	9.21	10778	1506.9
## + nationalityArmenia	1	9.13	10778	1506.9
## + nationalityFinland	1	7.94	10780	1506.9
## + nationalityItaly	1	7.68	10780	1506.9
## + `nationalityCongo DR`	1	7.21	10780	1507.0
## + nationalityWales	1	5.43	10782	1507.0
## + clubArsenal	1	5.08	10783	1507.0
## + positionRB	1	4.99	10783	1507.0
## + nationalityIceland	1	4.75	10783	1507.1
## + positionLM	1	4.52	10783	1507.1
## + nationalityUruguay	1	4.03	10784	1507.1
## + region	1	3.72	10784	1507.1
## + nationalityBosnia	1	3.64	10784	1507.1
## + nationalitySweden	1	3.28	10784	1507.1
## + new_signing	1	3.25	10784	1507.1
## + `nationalityNew Zealand`	1	3.19	10784	1507.1
## + nationalityGreece	1	3.07	10785	1507.1
## + nationalityMorocco	1	2.81	10785	1507.2
## + `clubWest+Ham`	1	2.80	10785	1507.2
## + nationalityCameroon	1	2.73	10785	1507.2
## + nationalityJamaica	1	2.57	10785	1507.2
## + nationalityCanada	1	2.43	10785	1507.2
## + nationalityNetherlands	1	1.91	10786	1507.2
## + `nationalityNorthern Ireland`	1	1.91	10786	1507.2

```

## + nationalityTunisia          1      1.83 10786 1507.2
## + nationalityChile            1      1.35 10786 1507.2
## + nationalityEgypt            1      1.33 10786 1507.2
## + nationalityRomania          1      1.20 10786 1507.2
## + nationalitySlovenia         1      1.06 10787 1507.2
## + nationalityPortugal         1      0.94 10787 1507.2
## + nationalityGermany          1      0.86 10787 1507.2
## + nationalityCroatia          1      0.72 10787 1507.2
## + nationalityBrazil           1      0.61 10787 1507.2
## + nationalityGhana            1      0.58 10787 1507.2
## + nationalityPoland           1      0.50 10787 1507.2
## + `clubCrystal+Palace`        1      0.36 10787 1507.2
## + nationalityMali             1      0.19 10787 1507.3
## + nationalityJapan            1      0.13 10788 1507.3
## + clubEverton                 1      0.11 10788 1507.3
## + `clubLeicester+City`        1      0.07 10788 1507.3
## + clubSwansea                 1      0.07 10788 1507.3
## + nationalityAustralia        1      0.04 10788 1507.3
## + positionGK                  1      0.02 10788 1507.3
## + nationalityAustria          1      0.02 10788 1507.3
## + nationalityDenmark          1      0.01 10788 1507.3
## + `nationalityUnited States`  1      0.01 10788 1507.3
## + club_id                     1      0.00 10788 1507.3
## - nationalityArgentina        1     98.10 10886 1507.4
## - clubBurnley                 1    102.46 10890 1507.6
## - position_cat                1    112.27 10900 1508.0
## - new_foreign                 1    132.62 10920 1508.9
## - positionSS                  1    148.50 10936 1509.6
## - positionDM                  1    158.13 10946 1510.0
## - clubChelsea                 1    200.08 10988 1511.7
## - nationalityFrance            1    278.62 11066 1515.0
## - nationalityBelgium           1    322.44 11110 1516.8
## - positionCF                  1    475.19 11263 1523.1
## - big_club                    1    689.57 11477 1531.8
## - `clubManchester+City`       1    693.62 11481 1531.9
## - fpl_points                  1    767.13 11555 1534.9
## - page_views                  1   1849.43 12637 1576.0
## - fpl_value                    1   1988.34 12776 1581.1
## - ns(age, 3)                   3   2541.17 13329 1596.6
##
## Step:  AIC=1505.14
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + position_cat + nationalityArgentina + clubBurnley +
##   clubBournemouth + nationalitySenegal + nationalityNorway +
##   positionRM + clubSouthampton + nationalityEcuador + `nationalityCzech Republic` +
##   nationalitySwitzerland + positionRW
##
##
##              Df Sum of Sq  RSS    AIC
## + positionLW      1      55.94 10682 1504.7
## <none>              10738 1505.1
## + clubWatford      1      44.90 10693 1505.2
## - position_cat      1      49.70 10788 1505.3

```

## - positionRW	1	49.70	10788	1505.3
## + nationalityKenya	1	43.27	10695	1505.3
## + `clubNewcastle+United`	1	40.68	10697	1505.4
## - nationalitySwitzerland	1	53.83	10792	1505.4
## - `nationalityCzech Republic`	1	54.46	10792	1505.5
## + clubLiverpool	1	38.66	10699	1505.5
## + clubHuddersfield	1	33.85	10704	1505.7
## + nationalityNigeria	1	32.12	10706	1505.8
## - clubBournemouth	1	61.60	10800	1505.8
## - nationalityEcuador	1	62.48	10800	1505.8
## + nationalitySerbia	1	28.85	10709	1505.9
## + clubTottenham	1	26.71	10711	1506.0
## + positionLB	1	25.95	10712	1506.0
## - nationalityNorway	1	68.57	10806	1506.1
## + `clubBrighton+and+Hove`	1	24.94	10713	1506.1
## + `nationalityTrinidad and Tobago`	1	24.58	10713	1506.1
## - clubSouthampton	1	70.41	10808	1506.2
## + nationalitySpain	1	22.85	10715	1506.2
## + positionCM	1	22.39	10716	1506.2
## + nationalityEngland	1	21.66	10716	1506.2
## + `clubWest+Brom`	1	21.56	10716	1506.2
## - nationalitySenegal	1	72.64	10811	1506.2
## + nationalityScotland	1	20.24	10718	1506.3
## + `nationalityCote d'Ivoire`	1	19.88	10718	1506.3
## + nationalityBermuda	1	19.33	10719	1506.3
## + nationalityEstonia	1	18.20	10720	1506.4
## + `clubManchester+United`	1	15.57	10722	1506.5
## + `clubStoke+City`	1	14.54	10723	1506.5
## + nationalityVenezuela	1	11.01	10727	1506.7
## + nationalityIsrael	1	11.00	10727	1506.7
## + `nationalityThe Gambia`	1	10.67	10727	1506.7
## + `nationalitySouth Korea`	1	10.63	10727	1506.7
## + nationalityColombia	1	10.03	10728	1506.7
## + nationalityIreland	1	9.99	10728	1506.7
## + nationalityCuracao	1	9.59	10728	1506.7
## + nationalityFinland	1	8.92	10729	1506.8
## + positionCB	1	8.89	10729	1506.8
## + `nationalityCongo DR`	1	8.56	10729	1506.8
## + nationalityItaly	1	7.94	10730	1506.8
## + positionLM	1	7.80	10730	1506.8
## + nationalityArmenia	1	7.15	10731	1506.8
## + positionRB	1	5.97	10732	1506.9
## + region	1	5.19	10733	1506.9
## + clubArsenal	1	4.78	10733	1506.9
## + nationalityBosnia	1	4.11	10734	1507.0
## + `clubWest+Ham`	1	4.07	10734	1507.0
## + nationalityWales	1	3.95	10734	1507.0
## + nationalityUruguay	1	3.94	10734	1507.0
## + nationalitySweden	1	3.41	10734	1507.0
## - positionRM	1	90.59	10828	1507.0
## + nationalityGreece	1	3.15	10735	1507.0
## + nationalityCanada	1	3.13	10735	1507.0
## + `nationalityNew Zealand`	1	3.09	10735	1507.0
## + nationalityIceland	1	3.07	10735	1507.0

```

## + `nationalityNorthern Ireland` 1 3.00 10735 1507.0
## + nationalityCameroon 1 2.57 10735 1507.0
## + nationalityJamaica 1 2.49 10735 1507.0
## + positionGK 1 2.33 10736 1507.0
## + new_signing 1 2.25 10736 1507.0
## + nationalityTunisia 1 1.91 10736 1507.1
## + nationalityNetherlands 1 1.87 10736 1507.1
## + nationalityRomania 1 1.58 10736 1507.1
## + nationalityBrazil 1 1.28 10737 1507.1
## + nationalityChile 1 1.17 10737 1507.1
## + nationalityPortugal 1 1.16 10737 1507.1
## + nationalityMorocco 1 1.08 10737 1507.1
## + nationalitySlovenia 1 1.01 10737 1507.1
## + `clubCrystal+Palace` 1 0.91 10737 1507.1
## + nationalityPoland 1 0.86 10737 1507.1
## + nationalityEgypt 1 0.80 10737 1507.1
## + nationalityCroatia 1 0.75 10737 1507.1
## + nationalityGhana 1 0.33 10738 1507.1
## + nationalityGermany 1 0.30 10738 1507.1
## + clubSwansea 1 0.16 10738 1507.1
## + nationalityJapan 1 0.15 10738 1507.1
## + clubEverton 1 0.10 10738 1507.1
## + `clubLeicester+City` 1 0.09 10738 1507.1
## + nationalityAustria 1 0.04 10738 1507.1
## + nationalityAustralia 1 0.03 10738 1507.1
## + nationalityDenmark 1 0.02 10738 1507.1
## + `nationalityUnited States` 1 0.02 10738 1507.1
## + nationalityMali 1 0.00 10738 1507.1
## + club_id 1 0.00 10738 1507.1
## - nationalityArgentina 1 99.04 10837 1507.4
## - clubBurnley 1 105.67 10844 1507.7
## - positionDM 1 126.45 10864 1508.5
## - new_foreign 1 134.95 10873 1508.9
## - positionSS 1 168.96 10907 1510.3
## - clubChelsea 1 213.11 10951 1512.2
## - nationalityFrance 1 276.84 11015 1514.8
## - nationalityBelgium 1 316.84 11055 1516.5
## - positionCF 1 524.61 11262 1525.1
## - big_club 1 667.86 11406 1530.9
## - `clubManchester+City` 1 692.13 11430 1531.9
## - fpl_points 1 758.03 11496 1534.5
## - page_views 1 1811.81 12550 1574.9
## - fpl_value 1 2006.98 12745 1582.0
## - ns(age, 3) 3 2574.78 13313 1598.0
##
## Step: AIC=1504.74
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
## fpl_points + `clubManchester+City` + positionCF + positionSS +
## nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
## positionDM + position_cat + nationalityArgentina + clubBurnley +
## clubBournemouth + nationalitySenegal + nationalityNorway +
## positionRM + clubSouthampton + nationalityEcuador + `nationalityCzech Republic` +
## nationalitySwitzerland + positionRW + positionLW
##

```

##	Df	Sum of Sq	RSS	AIC
## - position_cat	1	3.29	10685	1502.9
## - `nationalityCzech Republic`	1	40.99	10723	1504.5
## <none>			10682	1504.7
## + nationalityKenya	1	43.49	10638	1504.9
## + clubWatford	1	42.82	10639	1504.9
## - nationalitySwitzerland	1	50.63	10733	1504.9
## - nationalityEcuador	1	51.81	10734	1505.0
## - clubBournemouth	1	52.62	10735	1505.0
## + `clubNewcastle+United`	1	40.05	10642	1505.0
## + clubLiverpool	1	38.37	10644	1505.1
## - positionLW	1	55.94	10738	1505.1
## + clubHuddersfield	1	35.70	10646	1505.2
## + positionLB	1	29.14	10653	1505.5
## - clubSouthampton	1	65.30	10747	1505.5
## + clubTottenham	1	27.58	10654	1505.5
## + nationalityEngland	1	26.90	10655	1505.6
## + nationalitySerbia	1	25.86	10656	1505.6
## + nationalityNigeria	1	25.02	10657	1505.7
## + `nationalityTrinidad and Tobago`	1	24.91	10657	1505.7
## + `clubBrighton+and+Hove`	1	22.84	10659	1505.8
## - nationalityNorway	1	70.62	10753	1505.8
## + positionGK	1	21.10	10661	1505.8
## + nationalityScotland	1	20.05	10662	1505.9
## + nationalityBermuda	1	19.42	10663	1505.9
## - nationalitySenegal	1	74.04	10756	1505.9
## + nationalityEstonia	1	18.33	10664	1506.0
## + nationalitySpain	1	18.10	10664	1506.0
## + `nationalityCote d'Ivoire`	1	17.74	10664	1506.0
## + `clubWest+Brom`	1	17.15	10665	1506.0
## + `clubStoke+City`	1	16.44	10666	1506.0
## + positionLM	1	14.66	10667	1506.1
## + `clubManchester+United`	1	13.02	10669	1506.2
## + `nationalityCongo DR`	1	11.15	10671	1506.3
## + nationalityVenezuela	1	11.07	10671	1506.3
## + nationalityFinland	1	10.91	10671	1506.3
## + `nationalityThe Gambia`	1	10.67	10671	1506.3
## + nationalityIreland	1	10.56	10671	1506.3
## + region	1	10.18	10672	1506.3
## - positionDM	1	83.22	10765	1506.3
## + nationalityCuracao	1	9.75	10672	1506.3
## + nationalityIsrael	1	9.23	10673	1506.3
## + positionRB	1	8.29	10674	1506.4
## + nationalityColombia	1	8.03	10674	1506.4
## + nationalityItaly	1	7.68	10674	1506.4
## + `nationalitySouth Korea`	1	7.21	10675	1506.4
## + positionCB	1	7.09	10675	1506.4
## + nationalityWales	1	5.65	10676	1506.5
## + nationalityBosnia	1	4.99	10677	1506.5
## + `nationalityNorthern Ireland`	1	4.99	10677	1506.5
## + nationalityIceland	1	4.87	10677	1506.5
## + nationalityChile	1	4.34	10678	1506.5
## + nationalitySweden	1	4.27	10678	1506.6
## + new_signing	1	4.18	10678	1506.6

```

## + nationalityPortugal          1      4.18 10678 1506.6
## + nationalityCanada             1      4.17 10678 1506.6
## + nationalityArmenia            1      3.92 10678 1506.6
## + clubArsenal                   1      3.84 10678 1506.6
## + nationalityUruguay            1      3.79 10678 1506.6
## + `clubWest+Ham`                1      3.64 10678 1506.6
## + nationalityGreece             1      3.29 10679 1506.6
## + `nationalityNew Zealand`      1      2.98 10679 1506.6
## + nationalityNetherlands        1      2.71 10679 1506.6
## + nationalityRomania            1      2.48 10680 1506.6
## + nationalityCameroon           1      2.44 10680 1506.6
## + nationalityJamaica            1      2.35 10680 1506.6
## - positionRW                    1     91.00 10773 1506.6
## + nationalityTunisia            1      2.02 10680 1506.7
## + nationalityPoland              1      1.68 10680 1506.7
## + nationalityMorocco            1      1.55 10680 1506.7
## + positionCM                    1      1.44 10680 1506.7
## + nationalityBrazil             1      0.96 10681 1506.7
## + nationalitySlovenia           1      0.81 10681 1506.7
## + nationalityCroatia            1      0.72 10681 1506.7
## + `clubCrystal+Palace`          1      0.70 10681 1506.7
## + nationalityMali               1      0.54 10681 1506.7
## + nationalityDenmark            1      0.30 10682 1506.7
## + nationalityGermany            1      0.21 10682 1506.7
## + clubEverton                   1      0.15 10682 1506.7
## + nationalityJapan              1      0.13 10682 1506.7
## + nationalityEgypt              1      0.11 10682 1506.7
## + `clubLeicester+City`          1      0.07 10682 1506.7
## + nationalityAustria            1      0.07 10682 1506.7
## + club_id                       1      0.05 10682 1506.7
## + clubSwansea                   1      0.05 10682 1506.7
## + nationalityAustralia          1      0.04 10682 1506.7
## + `nationalityUnited States`    1      0.04 10682 1506.7
## + nationalityGhana              1      0.02 10682 1506.7
## - nationalityArgentina          1     93.70 10776 1506.8
## - positionRM                    1    105.89 10788 1507.3
## - clubBurnley                   1    115.35 10797 1507.7
## - new_foreign                   1    125.31 10807 1508.1
## - positionSS                    1    204.42 10886 1511.5
## - clubChelsea                   1    227.77 10910 1512.5
## - nationalityFrance             1    273.05 10955 1514.3
## - nationalityBelgium            1    320.94 11003 1516.4
## - positionCF                    1    558.66 11241 1526.2
## - big_club                      1    663.72 11346 1530.5
## - `clubManchester+City`         1    692.87 11375 1531.7
## - fpl_points                    1    755.37 11437 1534.2
## - page_views                    1   1788.71 12471 1574.0
## - fpl_value                     1   2017.19 12699 1582.3
## - ns(age, 3)                    3   2541.06 13223 1596.9
##
## Step: AIC=1502.88
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##     fpl_points + `clubManchester+City` + positionCF + positionSS +
##     nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +

```

```
## positionDM + nationalityArgentina + clubBurnley + clubBournemouth +
## nationalitySenegal + nationalityNorway + positionRM + clubSouthampton +
## nationalityEcuador + `nationalityCzech Republic` + nationalitySwitzerland +
## positionRW + positionLW
```

	Df	Sum of Sq	RSS	AIC
## - `nationalityCzech Republic`	1	40.08	10725	1502.6
## <none>			10685	1502.9
## + clubWatford	1	43.18	10642	1503.0
## - nationalitySwitzerland	1	49.82	10735	1503.0
## + nationalityKenya	1	42.96	10642	1503.0
## - nationalityEcuador	1	51.51	10737	1503.1
## + `clubNewcastle+United`	1	40.84	10644	1503.1
## - clubBournemouth	1	52.72	10738	1503.2
## + clubLiverpool	1	39.53	10646	1503.2
## + clubHuddersfield	1	35.71	10650	1503.3
## - clubSouthampton	1	64.76	10750	1503.7
## + nationalityEngland	1	27.86	10657	1503.7
## + clubTottenham	1	27.74	10658	1503.7
## + positionLB	1	26.31	10659	1503.8
## + nationalityNigeria	1	25.10	10660	1503.8
## + nationalitySerbia	1	24.89	10660	1503.8
## + `nationalityTrinidad and Tobago`	1	24.11	10661	1503.8
## - nationalityNorway	1	70.46	10756	1503.9
## + `clubBrighton+and+Hove`	1	22.18	10663	1503.9
## + positionGK	1	21.81	10664	1503.9
## + nationalityScotland	1	21.35	10664	1504.0
## - nationalitySenegal	1	73.41	10759	1504.0
## + nationalityBermuda	1	19.04	10666	1504.1
## + nationalityEstonia	1	18.47	10667	1504.1
## + `nationalityCote d'Ivoire`	1	18.11	10667	1504.1
## + nationalitySpain	1	17.50	10668	1504.1
## + `clubWest+Brom`	1	17.37	10668	1504.1
## + positionLM	1	16.55	10669	1504.2
## + `clubStoke+City`	1	16.50	10669	1504.2
## + `clubManchester+United`	1	12.77	10672	1504.3
## + nationalityFinland	1	11.98	10673	1504.4
## + `nationalityCongo DR`	1	11.43	10674	1504.4
## + nationalityVenezuela	1	10.91	10674	1504.4
## + `nationalityThe Gambia`	1	10.88	10674	1504.4
## + region	1	10.82	10674	1504.4
## + nationalityIreland	1	10.70	10675	1504.4
## - positionDM	1	83.01	10768	1504.4
## + nationalityCuracao	1	9.54	10676	1504.5
## + nationalityIsrael	1	8.57	10677	1504.5
## + positionCB	1	8.48	10677	1504.5
## + positionRB	1	7.63	10678	1504.5
## + nationalityItaly	1	7.53	10678	1504.6
## + `nationalitySouth Korea`	1	7.21	10678	1504.6
## + nationalityColombia	1	6.87	10678	1504.6
## + nationalityBosnia	1	5.73	10680	1504.6
## + nationalityWales	1	5.70	10680	1504.6
## + `nationalityNorthern Ireland`	1	5.54	10680	1504.6
## + nationalityIceland	1	5.35	10680	1504.7

## + nationalityChile	1	5.23	10680	1504.7
## + nationalitySweden	1	4.82	10680	1504.7
## + nationalityCanada	1	4.51	10681	1504.7
## + nationalityPortugal	1	4.47	10681	1504.7
## + new_signing	1	3.88	10681	1504.7
## + nationalityUruguay	1	3.81	10682	1504.7
## + `clubWest+Ham`	1	3.66	10682	1504.7
## + clubArsenal	1	3.36	10682	1504.7
## + position_cat	1	3.29	10682	1504.7
## + nationalityArmenia	1	3.25	10682	1504.7
## + nationalityGreece	1	3.22	10682	1504.7
## + nationalityRomania	1	3.13	10682	1504.8
## + `nationalityNew Zealand`	1	3.06	10682	1504.8
## + nationalityNetherlands	1	2.77	10682	1504.8
## + nationalityCameroon	1	2.62	10683	1504.8
## + nationalityJamaica	1	2.39	10683	1504.8
## + nationalityPoland	1	2.09	10683	1504.8
## + nationalityTunisia	1	1.92	10683	1504.8
## + nationalityMorocco	1	1.14	10684	1504.8
## + nationalityBrazil	1	1.07	10684	1504.8
## + nationalitySlovenia	1	0.88	10684	1504.8
## + nationalityCroatia	1	0.74	10684	1504.8
## + `clubCrystal+Palace`	1	0.65	10685	1504.8
## + nationalityMali	1	0.58	10685	1504.9
## + nationalityDenmark	1	0.26	10685	1504.9
## + nationalityGermany	1	0.23	10685	1504.9
## + nationalityJapan	1	0.13	10685	1504.9
## + clubEverton	1	0.09	10685	1504.9
## + nationalityEgypt	1	0.09	10685	1504.9
## + nationalityAustria	1	0.04	10685	1504.9
## + `clubLeicester+City`	1	0.03	10685	1504.9
## + club_id	1	0.02	10685	1504.9
## + `nationalityUnited States`	1	0.02	10685	1504.9
## + nationalityGhana	1	0.02	10685	1504.9
## + clubSwansea	1	0.01	10685	1504.9
## + positionCM	1	0.00	10685	1504.9
## + nationalityAustralia	1	0.00	10685	1504.9
## - nationalityArgentina	1	94.11	10779	1504.9
## - positionLW	1	102.36	10788	1505.3
## - positionRM	1	111.12	10796	1505.6
## - clubBurnley	1	118.74	10804	1506.0
## - new_foreign	1	131.96	10817	1506.5
## - positionRW	1	151.44	10837	1507.4
## - clubChelsea	1	231.10	10916	1510.7
## - positionSS	1	233.37	10919	1510.8
## - nationalityFrance	1	273.44	10959	1512.5
## - nationalityBelgium	1	322.78	11008	1514.6
## - big_club	1	692.41	11378	1529.8
## - `clubManchester+City`	1	695.47	11381	1529.9
## - fpl_points	1	807.11	11492	1534.4
## - positionCF	1	833.16	11518	1535.4
## - page_views	1	1795.58	12481	1572.3
## - fpl_value	1	2253.94	12939	1588.9
## - ns(age, 3)	3	2538.27	13224	1594.9


```

##
## Step: AIC=1502.6
## market_value ~ fpl_value + big_club + ns(age, 3) + page_views +
##   fpl_points + `clubManchester+City` + positionCF + positionSS +
##   nationalityFrance + nationalityBelgium + new_foreign + clubChelsea +
##   positionDM + nationalityArgentina + clubBurnley + clubBournemouth +
##   nationalitySenegal + nationalityNorway + positionRM + clubSouthampton +
##   nationalityEcuador + nationalitySwitzerland + positionRW +
##   positionLW
##
##
##              Df Sum of Sq  RSS   AIC
## <none>              10725 1502.6
## + nationalityKenya      1    43.60 10682 1502.7
## - nationalityEcuador    1    49.77 10775 1502.7
## - clubBournemouth      1    49.85 10775 1502.7
## - nationalitySwitzerland 1    50.39 10776 1502.8
## + clubWatford          1    42.08 10683 1502.8
## + `clubNewcastle+United` 1    41.69 10684 1502.8
## + `nationalityCzech Republic` 1    40.08 10685 1502.9
## + clubLiverpool        1    35.96 10689 1503.1
## + clubHuddersfield      1    34.37 10691 1503.1
## + clubTottenham        1    30.59 10695 1503.3
## - clubSouthampton      1    65.20 10791 1503.4
## + positionLB           1    25.72 10700 1503.5
## + nationalitySerbia     1    24.94 10700 1503.5
## + nationalityEngland    1    24.35 10701 1503.6
## + nationalityNigeria    1    24.20 10701 1503.6
## + `nationalityTrinidad and Tobago` 1    24.11 10701 1503.6
## - nationalityNorway     1    70.70 10796 1503.6
## + nationalityScotland   1    20.44 10705 1503.7
## - nationalitySenegal    1    74.13 10800 1503.8
## + nationalityBermuda    1    19.06 10706 1503.8
## + nationalitySpain      1    18.19 10707 1503.8
## + nationalityEstonia    1    17.97 10707 1503.8
## + `clubStoke+City`      1    17.66 10708 1503.8
## + positionGK            1    17.42 10708 1503.9
## + `nationalityCote d'Ivoire` 1    17.07 10708 1503.9
## + `clubWest+Brom`       1    16.10 10709 1503.9
## + positionLM            1    16.01 10709 1503.9
## + `clubManchester+United` 1    14.27 10711 1504.0
## + `clubBrighton+and+Hove` 1    14.06 10711 1504.0
## + nationalityFinland    1    12.20 10713 1504.1
## + `nationalityCongo DR` 1    11.89 10714 1504.1
## + nationalityIreland     1    11.43 10714 1504.1
## + nationalityVenezuela   1    10.94 10714 1504.1
## + region                1    10.85 10714 1504.1
## + `nationalityThe Gambia` 1    10.65 10715 1504.2
## + positionCB            1     9.73 10716 1504.2
## + nationalityCuracao    1     9.55 10716 1504.2
## - positionDM            1    85.06 10810 1504.2
## + nationalityIsrael      1     8.46 10717 1504.2
## + nationalityItaly       1     7.45 10718 1504.3
## + positionRB            1     7.10 10718 1504.3
## + nationalityColombia    1     6.75 10719 1504.3

```

## + `nationalitySouth Korea`	1	6.74	10719	1504.3
## + clubArsenal	1	6.45	10719	1504.3
## + nationalityWales	1	6.44	10719	1504.3
## + nationalityChile	1	5.96	10719	1504.3
## + nationalityBosnia	1	5.72	10720	1504.4
## + nationalityIceland	1	5.42	10720	1504.4
## + nationalityPortugal	1	5.29	10720	1504.4
## + `nationalityNorthern Ireland`	1	5.02	10720	1504.4
## + new_signing	1	4.94	10720	1504.4
## + nationalitySweden	1	4.89	10720	1504.4
## + nationalityCanada	1	4.64	10721	1504.4
## + nationalityUruguay	1	3.96	10721	1504.4
## + `clubWest+Ham`	1	3.79	10722	1504.4
## + nationalityArmenia	1	3.21	10722	1504.5
## + nationalityRomania	1	3.08	10722	1504.5
## + `nationalityNew Zealand`	1	3.03	10722	1504.5
## + nationalityGreece	1	3.00	10722	1504.5
## + nationalityCameroon	1	2.69	10723	1504.5
## + nationalityJamaica	1	2.53	10723	1504.5
## + nationalityPoland	1	2.50	10723	1504.5
## + nationalityNetherlands	1	2.44	10723	1504.5
## + position_cat	1	2.38	10723	1504.5
## + nationalityTunisia	1	1.94	10723	1504.5
## + nationalityMorocco	1	1.36	10724	1504.5
## + nationalityBrazil	1	1.23	10724	1504.5
## + `clubCrystal+Palace`	1	0.87	10724	1504.6
## + nationalitySlovenia	1	0.86	10724	1504.6
## + club_id	1	0.85	10724	1504.6
## + nationalityCroatia	1	0.80	10724	1504.6
## + nationalityMali	1	0.72	10725	1504.6
## + nationalityGermany	1	0.34	10725	1504.6
## + nationalityDenmark	1	0.27	10725	1504.6
## + nationalityJapan	1	0.13	10725	1504.6
## + clubEverton	1	0.06	10725	1504.6
## + clubSwansea	1	0.04	10725	1504.6
## + nationalityEgypt	1	0.04	10725	1504.6
## + nationalityAustria	1	0.03	10725	1504.6
## + `clubLeicester+City`	1	0.03	10725	1504.6
## + `nationalityUnited States`	1	0.01	10725	1504.6
## + positionCM	1	0.01	10725	1504.6
## + nationalityGhana	1	0.00	10725	1504.6
## + nationalityAustralia	1	0.00	10725	1504.6
## - nationalityArgentina	1	97.30	10823	1504.8
## - positionRM	1	111.19	10836	1505.3
## - clubBurnley	1	117.44	10843	1505.6
## - positionLW	1	119.92	10845	1505.7
## - new_foreign	1	131.41	10857	1506.2
## - positionRW	1	153.01	10878	1507.1
## - positionSS	1	234.65	10960	1510.6
## - clubChelsea	1	238.06	10963	1510.7
## - nationalityFrance	1	275.81	11001	1512.3
## - nationalityBelgium	1	326.09	11051	1514.4
## - big_club	1	675.93	11401	1528.7
## - `clubManchester+City`	1	705.99	11431	1529.9

```
## - fpl_points          1    799.49 11525 1533.7
## - positionCF          1    839.33 11565 1535.3
## - page_views          1   1797.76 12523 1571.9
## - fpl_value           1   2273.18 12998 1589.0
## - ns(age, 3)          3   2568.49 13294 1595.4
```

```
print(all_pred_step$call)
```

```
## lm(formula = market_value ~ fpl_value + big_club + ns(age, 3) +
##     page_views + fpl_points + `clubManchester+City` + positionCF +
##     positionSS + nationalityFrance + nationalityBelgium + new_foreign +
##     clubChelsea + positionDM + nationalityArgentina + clubBurnley +
##     clubBournemouth + nationalitySenegal + nationalityNorway +
##     positionRM + clubSouthampton + nationalityEcuador + nationalitySwitzerland +
##     positionRW + positionLW, data = epl)
```

market_value ~ fpl_value + big_club + page_views + positionCF + positionDM + nationalityBelgium + age + fpl_points + nationalityEngland + clubManchester+City + positionSS + nationalityFrance + clubChelsea + nationalityNigeria + nationalityNorway + new_foreign + clubNewcastle+United + nationalityScotland + nationalityArgentina + nationalitySenegal + clubBrighton+and+Hove + nationalityCzech Republic + clubLiverpool + positionLW + positionRW + clubSouthampton + nationalityEcuador

```
market_value ~ fpl_value + big_club + ns(age, 3) +
page_views + fpl_points + `clubManchester+City` + clubChelsea +
nationalityFrance + positionCF + nationalityBelgium + positionSS +
positionDM + clubBurnley + new_foreign + nationalityArgentina +
nationalityNorway + positionRM + clubBournemouth + nationalitySenegal +
clubSouthampton + nationalityEcuador + positionRW + positionLW +
nationalitySwitzerland
```

```
market_value ~ fpl_value + page_views + ns(age,
3) + big_club + fpl_points + nationalityBelgium + positionDM +
nationalityNorway + `clubManchester+City` + nationalityFrance +
positionCF + clubChelsea + positionSS + clubSouthampton +
clubBurnley + `nationalityCzech Republic` + clubLiverpool +
nationalityEcuador + new_foreign + positionRW + positionLW
```

```
epl.back.forward.fit=lm(market_value ~ fpl_value + page_views + ns(age,
3) + big_club + fpl_points + nationalityBelgium + positionDM +
nationalityNorway + `clubManchester+City` + nationalityFrance +
positionCF + clubChelsea + positionSS + clubSouthampton +
clubBurnley + `nationalityCzech Republic` + clubLiverpool +
nationalityEcuador + new_foreign + positionRW + positionLW ,data=train)
```

```
summary(epl.back.forward.fit)
```

```
##
## Call:
## lm(formula = market_value ~ fpl_value + page_views + ns(age,
##     3) + big_club + fpl_points + nationalityBelgium + positionDM +
##     nationalityNorway + `clubManchester+City` + nationalityFrance +
##     positionCF + clubChelsea + positionSS + clubSouthampton +
##     clubBurnley + `nationalityCzech Republic` + clubLiverpool +
##     nationalityEcuador + new_foreign + positionRW + positionLW,
##     data = train)
##
```

```
## Residuals:
##      Min       1Q   Median       3Q      Max
## -18.8239  -2.8647  -0.3697   2.4747  18.7229
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -21.471150    2.458041  -8.735 < 2e-16 ***
## fpl_value       3.245375    0.437505   7.418 1.07e-12 ***
## page_views      0.003811    0.000474   8.039 1.75e-14 ***
## ns(age, 3)1      0.273699    1.358871   0.201 0.840500
## ns(age, 3)2     14.566849    4.366980   3.336 0.000951 ***
## ns(age, 3)3     -7.346724    2.122681  -3.461 0.000611 ***
## big_club        4.771124    0.912273   5.230 3.06e-07 ***
## fpl_points      0.042441    0.008209   5.170 4.13e-07 ***
## nationalityBelgium  5.096351    1.537397   3.315 0.001022 **
## positionDM       1.820300    1.118203   1.628 0.104532
## nationalityNorway -10.112225    5.921294  -1.708 0.088645 .
## `clubManchester+City` 5.980692    1.468252   4.073 5.84e-05 ***
## nationalityFrance  2.951804    1.296593   2.277 0.023469 *
## positionCF      -4.544064    1.024613  -4.435 1.27e-05 ***
## clubChelsea      3.898089    1.642981   2.373 0.018254 *
## positionSS      -7.095838    2.757830  -2.573 0.010532 *
## clubSouthampton  2.215921    1.289112   1.719 0.086587 .
## clubBurnley     -2.618130    1.348801  -1.941 0.053124 .
## `nationalityCzech Republic` -5.143148    3.717187  -1.384 0.167438
## clubLiverpool   -1.341750    1.386229  -0.968 0.333816
## nationalityEcuador  0.623651    5.245868   0.119 0.905441
## new_foreign      4.541034    1.680478   2.702 0.007254 **
## positionRW      -2.478716    1.165679  -2.126 0.034231 *
## positionLW      -2.162880    1.128419  -1.917 0.056159 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 5.126 on 321 degrees of freedom
## Multiple R-squared:  0.8447, Adjusted R-squared:  0.8336
## F-statistic: 75.9 on 23 and 321 DF, p-value: < 2.2e-16

epl.back.forward.y = predict(epl.back.forward.fit, newdata=test)
mean((test$market_value-epl.back.forward.y)^2)

## [1] 24.24639

par(mfrow=c(2,2))
epl.tree =tree(market_value~age+position_cat+region+big_club+new_signing+new_foreign,train )
summary(epl.tree)

##
## Regression tree:
## tree(formula = market_value ~ age + position_cat + region + big_club +
##       new_signing + new_foreign, data = train)
## Variables actually used in tree construction:
## [1] "big_club"      "position_cat"  "age"           "new_signing"
## Number of terminal nodes: 9
## Residual mean deviance: 75.69 = 25430 / 336
## Distribution of residuals:
```

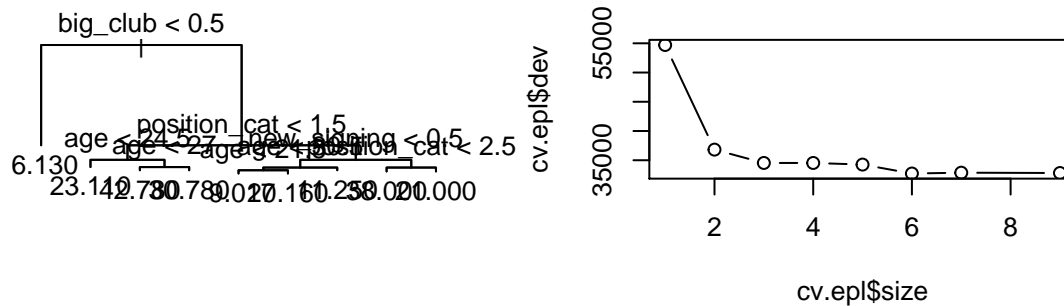
```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## -30.73  -4.63   -1.13    0.00   2.87   37.00
```

```
plot(epl.tree)
text(epl.tree,pretty=0)

cv.epl=cv.tree(epl.tree)
plot(cv.epl$size,cv.epl$dev,type='b')

prune.epl=prune.tree(epl.tree,best=8)

plot(prune.epl)
text(prune.epl,pretty=0)
```



```
#initial tree test MSE
mean((test$market_value-predict(epl.tree,newdata=test))^2)
```

```
## [1] 71.67043
```

```
#pruned tree test MSE
mean((test$market_value-predict(prune.epl,newdata=test))^2)
```

```
## [1] 71.67043
```

```
#no learning benchmark ybar= mean of y in training data
mean((test$market_value-mean(train$market_value))^2)
```

```
## [1] 128.5292
```

We try the SVM model. First we standardize the data and resplit the train and test set. Next we fit market_value to all predictors and we have test MSE of 204

```
#dropVars <- sapply(train, function(i) { if((is.numeric(i) & !any(is.nan(i)) & sd(i) > 0) | is.factor(i) & length(levels(i)) > 10) ) TRUE } )
#smaller_train <- train[, dropVars]
```

```
#dropVars <- sapply(test, function(i) { if((is.numeric(i) & !any(is.nan(i)) & sd(i) > 0) | is.factor(i) & length(levels(i)) > 10) ) TRUE } )
```

```

# subset test dropping columns that don't fit the criteria
#smaller_test <- test[, dropVars]

epl_ddf <- as.data.frame(sapply(epl, function(i) if(is.numeric(i)) scale(i) else i))
dropVars <- sapply(epl_ddf, function(i) { if((is.numeric(i) & !any(is.nan(i)) & sd(i) > 0) | is.factor(i) & !any(is.na(i))) FALSE else TRUE })
epl_ddf <- epl_ddf[, dropVars]

train.index=sample(nrow(epl_ddf),nrow(epl_ddf)*0.75)
train=epl[train.index,]
test=epl[-train.index,]

#smaller_train
#test_ddf <- as.data.frame(sapply(test, function(i) if(is.numeric(i)) scale(i) else i))
#dropVars <- sapply(test_ddf, function(i) { if((is.numeric(i) & !any(is.nan(i)) & sd(i) > 0) | is.factor(i) & !any(is.na(i))) FALSE else TRUE })
#smaller_test <- test_ddf[, dropVars]
#train
#test_ddf[is.na(test_ddf)]
#test_ddf %>% lapply(function(x){any(is.na(x))})

#summary(train_ddf)
svm.fit <- svm(market_value~., data=train)

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

svm.fit.y <- predict(svm.fit, newdata=test)

#summary(svm.fit)
mean((test$market_value-svm.fit.y)^2)

## [1] 169.5077

#svm.fit.y

```

We use the tune function to do SVM predictors search. The best model from this search gives a test MSE of .

```

tuneResult <- tune(svm, market_value ~ ., data = train,
  ranges = list(epsilon = seq(0,1,0.1), cost = 2^(2:9))
)

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

```

```

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and

```

```

## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and

```



```

## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

```

```

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and

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## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'

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## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
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## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
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## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
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## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale

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## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
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## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and

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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
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## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
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## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
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## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'

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## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
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## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
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## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'

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## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
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## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and

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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and

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## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
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## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
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## 'nationalityUruguay' constant. Cannot scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
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## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and

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## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'

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## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'

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## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
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## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
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## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and

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## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
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## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
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## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
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## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'

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## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
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## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and

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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and

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## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and

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## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
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## 'nationalityUruguay' constant. Cannot scale data.

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## 'nationalityUruguay' constant. Cannot scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## and 'nationalityTunisia' and 'nationalityUruguay' and
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## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
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## and 'nationalityUruguay' constant. Cannot scale data.

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## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and

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## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## and 'nationalityTunisia' and 'nationalityUruguay' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'

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## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and

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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
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## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
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## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
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## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
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## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'

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## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
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## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and

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## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
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## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and

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## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and

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## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
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## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and

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## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'

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## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
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## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
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## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale

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## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
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## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and

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## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
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## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'

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## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and

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## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
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## 'nationalityUruguay' constant. Cannot scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
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## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
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## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
## and 'nationalityIsrael' and 'nationalityKenya' and 'nationalitySlovenia'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCuracao'
## and 'nationalityFinland' and 'nationalityJapan' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and
## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityIceland' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
## 'nationalityKenya' and 'nationalityRomania' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
## 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
## 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and

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## 'nationalityNorway' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon'
## and 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya'
## and 'X.nationalityThe.Gambia.' and 'nationalityTunisia' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
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## and 'nationalityTunisia' and 'nationalityUruguay' and
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## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
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## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
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## and 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityGreece' and
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## and 'nationalityTunisia' and 'nationalityUruguay' constant. Cannot scale
## data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityKenya' and 'X.nationalityNew.Zealand.' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
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## 'nationalityVenezuela' constant. Cannot scale data.

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## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and
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## and 'nationalityUruguay' constant. Cannot scale data.

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## and 'nationalityUruguay' constant. Cannot scale data.

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## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityKenya' and
## 'nationalityMali' and 'nationalityPoland' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityTunisia' and

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## 'X.nationalityUnited.States.' and 'nationalityUruguay' constant. Cannot
## scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
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## 'nationalityUruguay' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCameroon' and 'nationalityCanada' and 'nationalityColombia' and
## 'nationalityKenya' and 'X.nationalityThe.Gambia.' and 'nationalityTunisia'
## and 'nationalityUruguay' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityCameroon' and
## 'nationalityCanada' and 'nationalityColombia' and 'nationalityEstonia' and

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## 'nationalityKenya' and 'nationalityMorocco' and 'X.nationalityThe.Gambia.'
## and 'nationalityTunisia' and 'nationalityUruguay' and
## 'nationalityVenezuela' constant. Cannot scale data.

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## 'nationalityUruguay' constant. Cannot scale data.

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```

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```

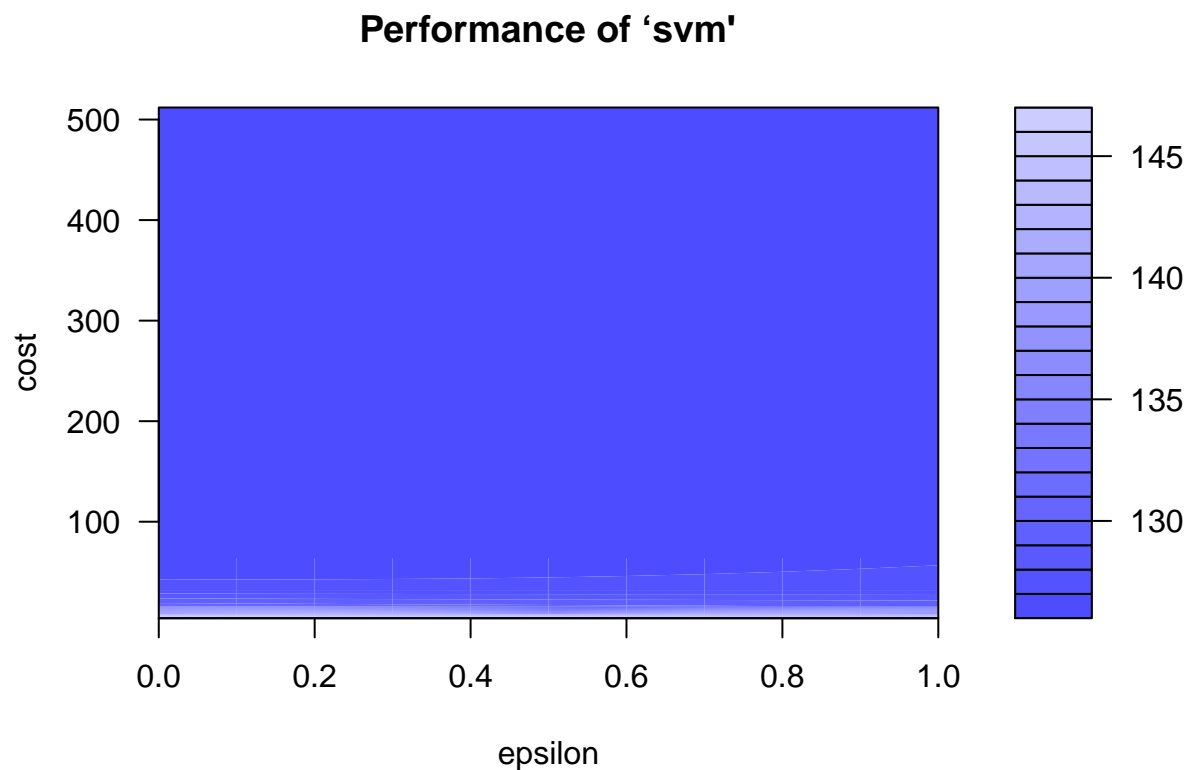
```
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```

```
print(tuneResult)
```

```
##
## Parameter tuning of 'svm':
##
## - sampling method: 10-fold cross validation
##
## - best parameters:
##   epsilon cost
##     0    64
##
## - best performance: 126.484
```

```
# Draw the tuning graph
```

```
plot(tuneResult)
```



```
tunedModel <- tuneResult$best.model
tunedModelY <- predict(tunedModel, test)
```

```
error <- test$model_value - tunedModelY
```

```
# this value can be different on your computer
# because the tune method randomly shuffles the data
#tunedModelRMSE <- rmse(error) # 2.219642
#print(tunedModelRMSE)
```

```
mean((test$market_value-tunedModelY)^2)
```

```
## [1] 143.06
```