154_project

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November 23, 2018

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

```
## corrplot 0.84 loaded
```

```r
library(randomForest)
```

```
## randomForest 4.6-14
```

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

```r
library(caret)
```

```
## Loading required package: lattice
```

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

```
##
## Attaching package: 'ggplot2'
```

```
## The following object is masked from 'package:randomForest':
##
##     margin
```

```r
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.

```r
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.

```r
#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"
```

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

Plots of some basic statistics.

```r
#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£)',name
#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
#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('
#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
#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 Sig


par(mfrow=c(2,3))
```
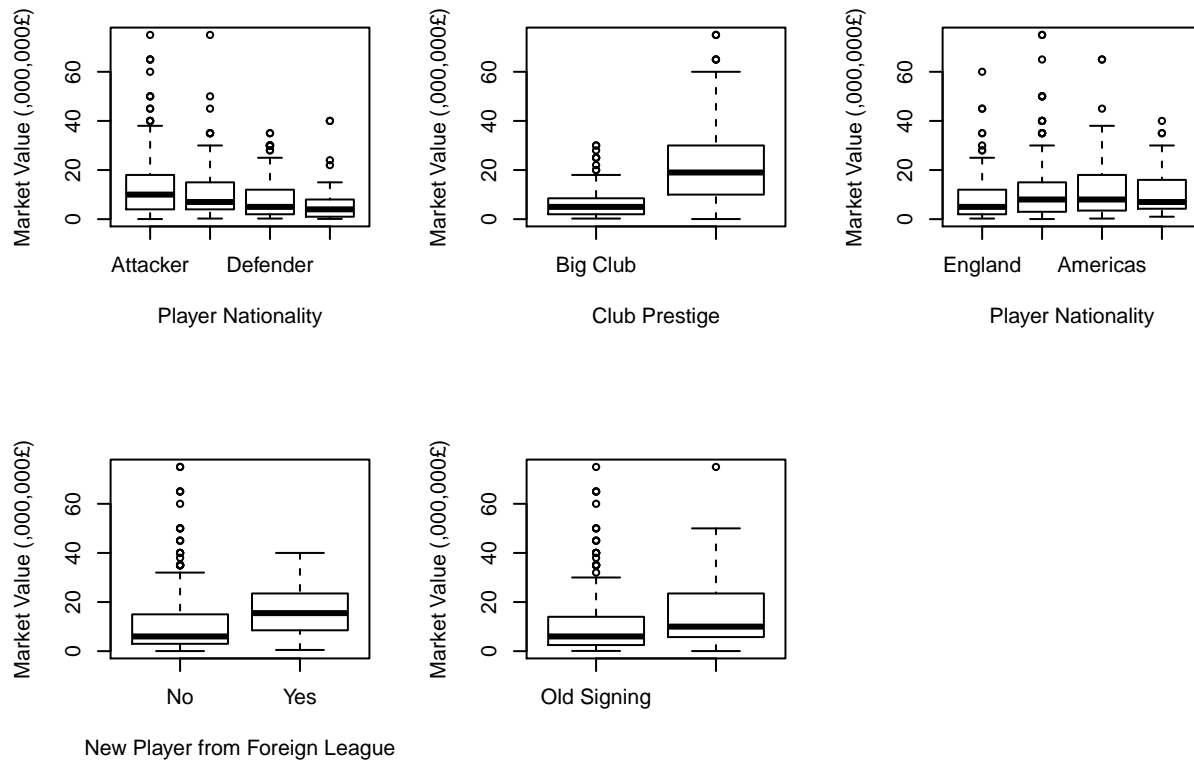
```r
barplot(table(epl$position_cat))
barplot(table(epl$big_club))
barplot(table(epl$region))
barplot(table(epl$new_foreign))
barplot(table(epl$new_signing))
barplot(table(epl$age), xlab="Age", ylab="Market Value (,000,000£)")
```
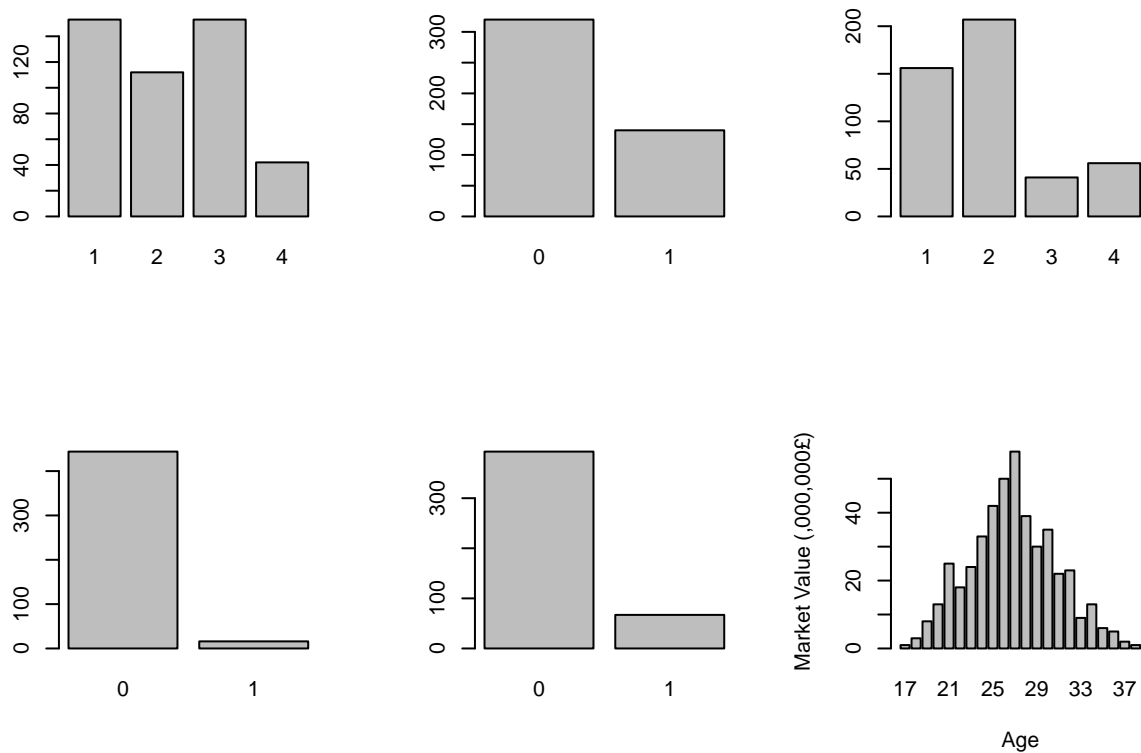
```r
par(mfrow=c(2,2))
hist(epl$market_value)
hist(epl$page_views)
hist(epl$fpl_value)
hist(epl$fpl_points)
```

Histogram of epl$market_value

Frequency

epl$market_value
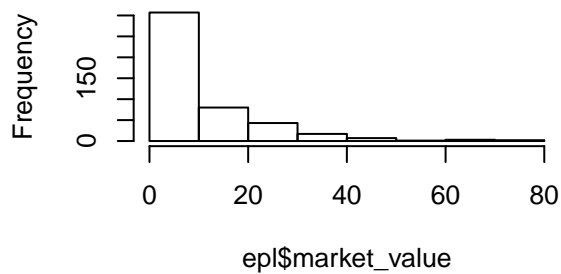
Histogram of epl$page_views

Frequency

epl$page_views
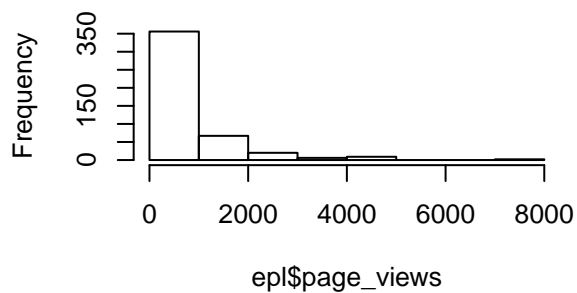
Histogram of epl$fpl_value

Frequency

epl$fpl_value
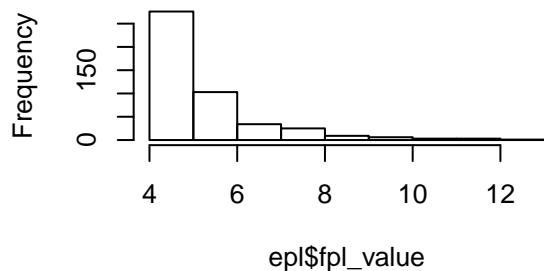
Histogram of epl$fpl_points

Frequency

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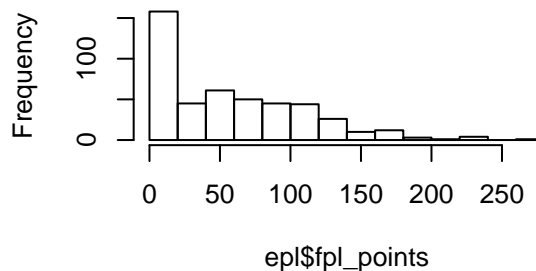
```
summary(epl$big_club)
```

```
##    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
```

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

```
corrplot(cor(epl[c("age", "position_cat", "market_value", "page_views", "fpl_value", "fpl_points", "reg
```
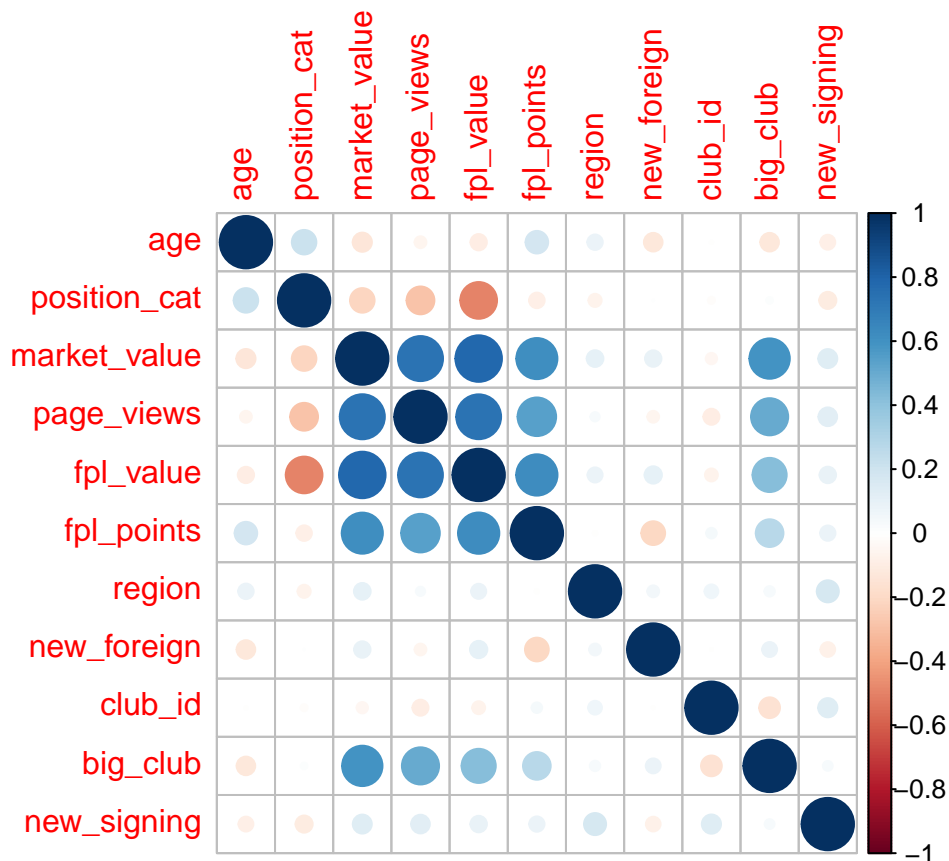


```
#plot + cubic spline for the ages column
age.spline=lm(market_value~ns(age,4),epl)
x=seq(min(epl$age),max(epl$age),length=100)
y=predict(age.spline,newdata=data.frame(age=x),se=T)
```

```
plot(epl$age,epl$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')
```
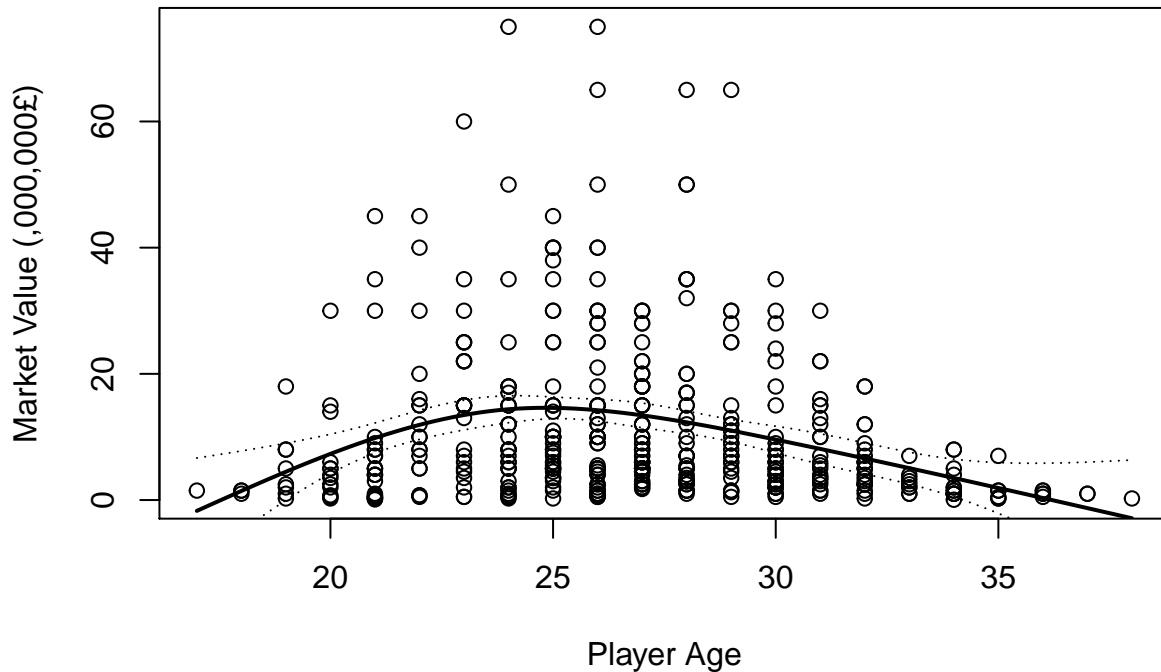

Variable importance plots shows that page_views and fpl_value is the best predictor for market_value.

```
rf_fit=randomForest(market_value~., data=train[c("age", "position_cat", "market_value", "page_views", ":
(VI_F=importance(rf_fit))
```

```
##                 IncNodePurity
## age                2816.5540
## position_cat       1507.2981
## page_views        18773.7976
## fpl_value         14952.4387
## fpl_points         9647.1615
## region              802.7170
## new_foreign         349.3183
## club_id            1701.3080
## big_club           6126.0191
## new_signing         517.4540
```

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

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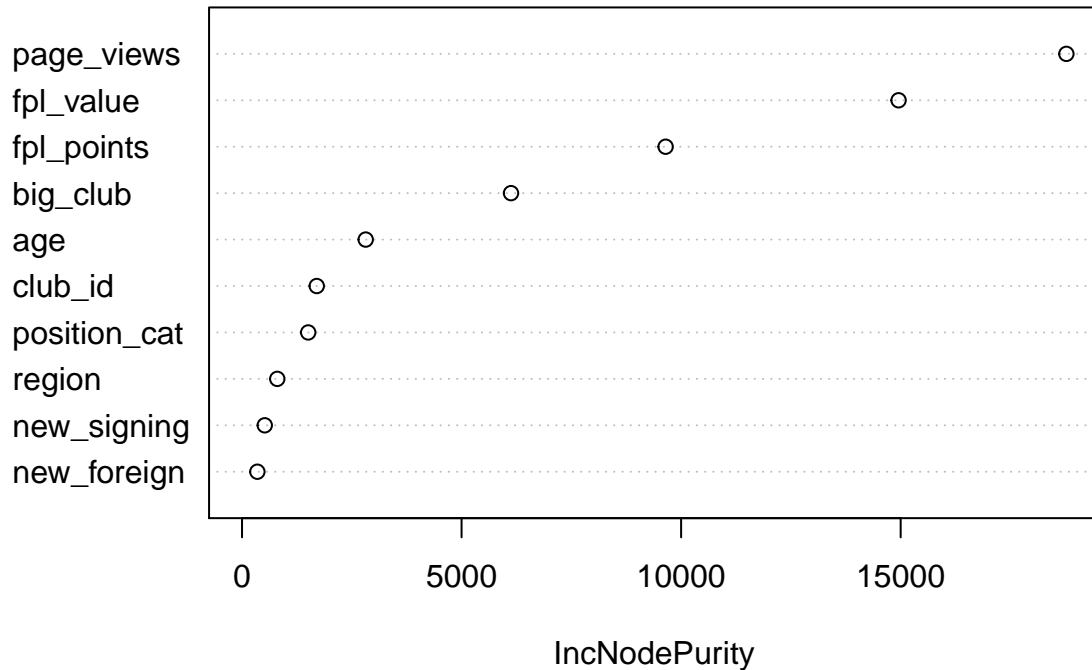
Our linear model with the following predictors (age, position_cat, region, big_club, new_signing, new_foreign) gives us 102 test mean square error.

```
#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
## -29.189  -4.951  -0.752   3.795  49.494
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   8.28299    3.86790   2.141   0.0330 *
## age           0.07832    0.14156   0.553   0.5805
## position_cat -2.94911    0.55379  -5.325 1.84e-07 ***
## region        0.65519    0.60016   1.092   0.2757
## big_club     16.88305    1.16375  14.507  < 2e-16 ***
## new_signing   3.04854    1.57209   1.939   0.0533 .
## new_foreign   4.41800    3.12401   1.414   0.1582
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 9.976 on 338 degrees of freedom
## Multiple R-squared:  0.4322, Adjusted R-squared:  0.4221
```

```
## F-statistic: 42.88 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] 59.47557
```

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
```

```r
step(end.model1, scope=list(lower=start.model1,upper=end.model1),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 outbut
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
## -28.77  -5.22  -0.72   3.28  49.52
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    11.513      1.351   8.521 5.22e-16 ***
## big_club       16.868      1.155  14.610  < 2e-16 ***
## position_cat   -2.896      0.536  -5.403 1.23e-07 ***
## new_signing     3.338      1.539   2.168   0.0308 *
## new_foreign     4.608      3.087   1.493   0.1364
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 9.97 on 340 degrees of freedom
## Multiple R-squared:  0.4295, Adjusted R-squared:  0.4228
## F-statistic: 63.99 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] 58.98368
```

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
## -24.580  -5.253  -0.710   3.722  47.699
##
```

```
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -0.9491     2.8130  -0.337 0.736028
## ns(age, 3)1    5.5236     2.3348   2.366 0.018562 *
## ns(age, 3)2   22.1750     6.0352   3.674 0.000278 ***
## ns(age, 3)3   -3.7224     3.6338  -1.024 0.306400
## position_cat  -2.7940     0.5319  -5.253 2.66e-07 ***
## region         0.2800     0.5778   0.485 0.628314
## big_club      16.7505     1.1146  15.028  < 2e-16 ***
## new_signing    2.7938     1.5065   1.854 0.064552 .
## new_foreign    3.1388     3.0136   1.042 0.298370
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 9.543 on 336 degrees of freedom
## Multiple R-squared:  0.4835, Adjusted R-squared:  0.4712
## F-statistic: 39.31 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] 45.39423
```

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
```

```r
#both forward and backward model selection give the same outbut
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
## -24.672  -5.190  -0.581   3.599  47.369
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -0.6858     2.6917  -0.255 0.799058
## big_club       16.9153     1.1052  15.305  < 2e-16 ***
## ns(age, 3)1     5.3702     2.3087   2.326 0.020607 *
## ns(age, 3)2    22.9828     5.9760   3.846 0.000144 ***
## ns(age, 3)3    -3.6820     3.6286  -1.015 0.310969
## position_cat   -2.7945     0.5306  -5.267 2.47e-07 ***
## new_signing     2.7789     1.4711   1.889 0.059743 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
```

```
## Residual standard error: 9.535 on 338 degrees of freedom
## Multiple R-squared:  0.4813, Adjusted R-squared:  0.472
## F-statistic: 52.26 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] 45.44001
```

The Normal QQ plot of the model residule is sorta linear. The error is almost gausian.

```
#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
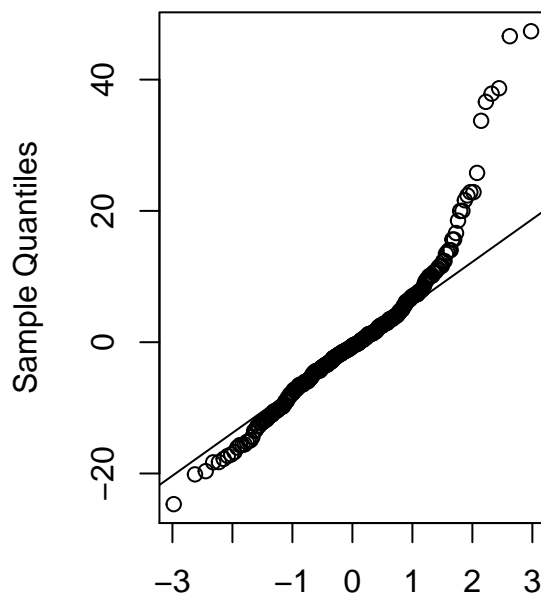
Histogram of resid(epl.forwardfit
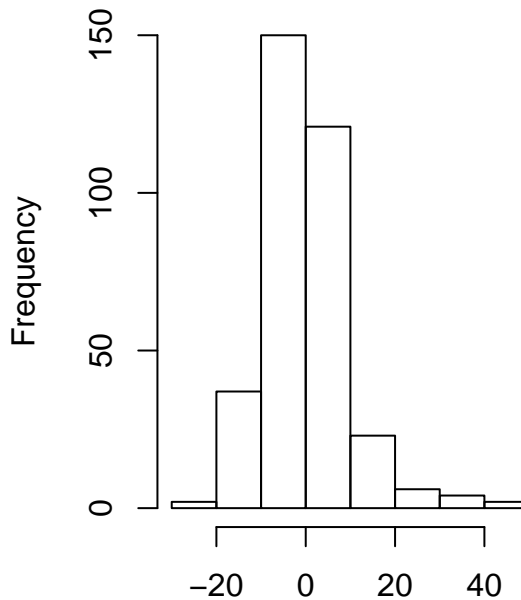
We try one last linear model with natural spline and all the one-hot predictors. We use the forward/backward stepwise search for predictors. The best performing AIC model is (market_value ~ fpl_value + page_views + ns(age, 3) + big_club + fpl_points + nationalityBelgium + positionDM + nationalityNorway + 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
## + nationality+Norway                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
##
```

17

```
## 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>                                          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
```

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```
##
## 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
```

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```
## + 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
```

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```
## - 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>                                    11561 1517.1
## + 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>                                          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>                                       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>                                        10889 1505.6
## + `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>                                        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
```

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```
## - 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
## - nationality+Belgium            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
## -19.354  -3.042  -0.311   2.870  18.138
##
## Coefficients: (1 not defined because of singularities)
##                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)               -2.057e+01  2.140e+00  -9.611  < 2e-16 ***
## fpl_value                  3.575e+00  4.280e-01   8.354 2.00e-15 ***
## page_views                 3.767e-03  4.796e-04   7.854 6.05e-14 ***
## ns(age, 3)1               -1.713e+00  1.303e+00  -1.315 0.189442
## ns(age, 3)2                1.003e+01  3.274e+00   3.065 0.002360 **
## ns(age, 3)3               -6.363e+00  1.959e+00  -3.248 0.001285 **
## big_club                   3.607e+00  8.734e-01   4.129 4.64e-05 ***
## fpl_points                 4.495e-02  8.146e-03   5.517 7.09e-08 ***
## nationalityBelgium         4.489e+00  1.403e+00   3.199 0.001517 **
## positionDM                 2.991e+00  1.045e+00   2.861 0.004498 **
## nationalityNorway                 NA         NA      NA       NA
## `clubManchester+City`      7.384e+00  1.473e+00   5.013 8.87e-07 ***
## nationalityFrance          3.848e+00  1.157e+00   3.327 0.000981 ***
## positionCF                -4.404e+00  9.945e-01  -4.429 1.30e-05 ***
## clubChelsea                5.150e+00  1.493e+00   3.449 0.000638 ***
## positionSS                -7.025e+00  2.714e+00  -2.589 0.010074 *
## clubSouthampton           -2.013e-01  1.419e+00  -0.142 0.887285
## clubBurnley               -2.288e+00  1.468e+00  -1.558 0.120141
## `nationalityCzech Republic` -4.991e+00 3.674e+00  -1.359 0.175239
## clubLiverpool             -6.988e-01  1.290e+00  -0.542 0.588370
## nationalityEcuador        -4.562e+00  3.647e+00  -1.251 0.211828
## new_foreign                4.177e+00  1.791e+00   2.332 0.020327 *
## positionRW                -2.637e+00  1.151e+00  -2.292 0.022574 *
## positionLW                -2.238e+00  1.101e+00  -2.034 0.042793 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 5.07 on 322 degrees of freedom
## Multiple R-squared:  0.8603, Adjusted R-squared:  0.8507
## F-statistic: 90.13 on 22 and 322 DF,  p-value: < 2.2e-16
```

```
epl.back.forward.y = predict(epl.back.forward.fit, newdata=test)
```

```
## Warning in predict.lm(epl.back.forward.fit, newdata = test): prediction
## from a rank-deficient fit may be misleading
```

```
mean((test$market_value-epl.back.forward.y)^2)
```

```
## [1] 28.38302
```

```
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"          "region"
```

```
## [5] "new_signing"
## Number of terminal nodes:  8
## Residual mean deviance:  77.22 = 26020 / 337
## Distribution of residuals:
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## -31.310  -4.845  -1.345   0.000   4.155  37.000
```

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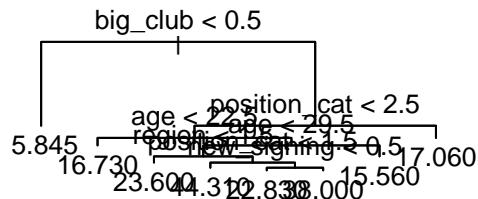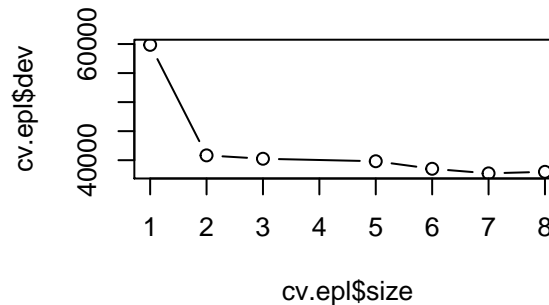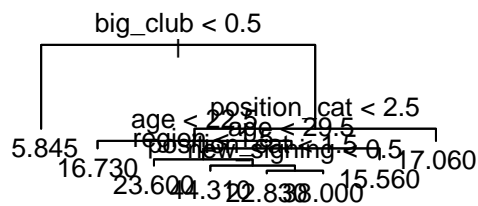
```r
#initial tree test MSE
mean((test$market_value-predict(epl.tree,newdata=test))^2)
```

```
## [1] 62.83681
```

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

```
## [1] 62.83681
```

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

```
## [1] 86.16868
```

We try the SVM model. First we standarize 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)
#smaller_train <- train[, dropVars]

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

# 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(
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.facto
#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 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.
```

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

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

```
## [1] 123.6476
```
```
#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 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
```

```
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

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

```
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

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

```
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

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

```
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

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

...

```
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' 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 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

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## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
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## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
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## Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
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## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' 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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## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
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## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
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## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

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## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' 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 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
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## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
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## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
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## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'X.nationalityTrinidad.and.Tobago.' 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 'nationalityBermuda'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
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## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' 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
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
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## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' 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 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

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## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## scale data.
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```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## 'nationalityTunisia' constant. Cannot scale data.

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## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
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## Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' 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
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## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' 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 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' 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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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' 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'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
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## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
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## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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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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## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' 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 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' 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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## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

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## 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
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## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
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## Cannot scale data.
```

```
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## and 'nationalityCroatia' and 'nationalityEstonia' and
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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
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## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' 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 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
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## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

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

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
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## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' 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 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
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## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
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## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

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## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
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## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' 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
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
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## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
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## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

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## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'nationalityRomania' and 'nationalitySlovenia' and
## 'X.nationalitySouth.Korea.' and 'X.nationalityTrinidad.and.Tobago.' and
## 'nationalityTunisia' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'X.nationalityCzech.Republic.' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.
```

```
## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCanada' and 'nationalityCroatia' and 'nationalityEcuador'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'nationalityNorway' and 'X.nationalityTrinidad.and.Tobago.' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityChile' and 'nationalityCroatia' and 'nationalityFinland' and
## 'nationalityGreece' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' and 'nationalityVenezuela' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda'
## and 'nationalityCroatia' and 'nationalityEstonia' and
## 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityJapan' and 'nationalityKenya' and 'X.nationalityThe.Gambia.'
## and 'X.nationalityTrinidad.and.Tobago.' and 'nationalityUruguay' constant.
## Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityCuracao' and 'nationalityFinland'
## and 'nationalityItaly' and 'nationalityJamaica' and 'nationalityKenya' and
## 'X.nationalityTrinidad.and.Tobago.' constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityArmenia' and 'nationalityBenin' and
## 'nationalityBermuda' and 'nationalityColombia' and 'nationalityCroatia'
## and 'nationalityFinland' and 'nationalityJamaica' and 'nationalityKenya'
## and 'X.nationalityNew.Zealand.' and 'X.nationalityTrinidad.and.Tobago.'
## constant. Cannot scale data.

## Warning in svm.default(x, y, scale = scale, ..., na.action =
## na.action): Variable(s) 'nationalityBenin' and 'nationalityBermuda' and
## 'nationalityCroatia' and 'nationalityFinland' and 'nationalityJamaica' and
## 'nationalityKenya' and 'X.nationalityTrinidad.and.Tobago.' constant. Cannot
## scale data.
```
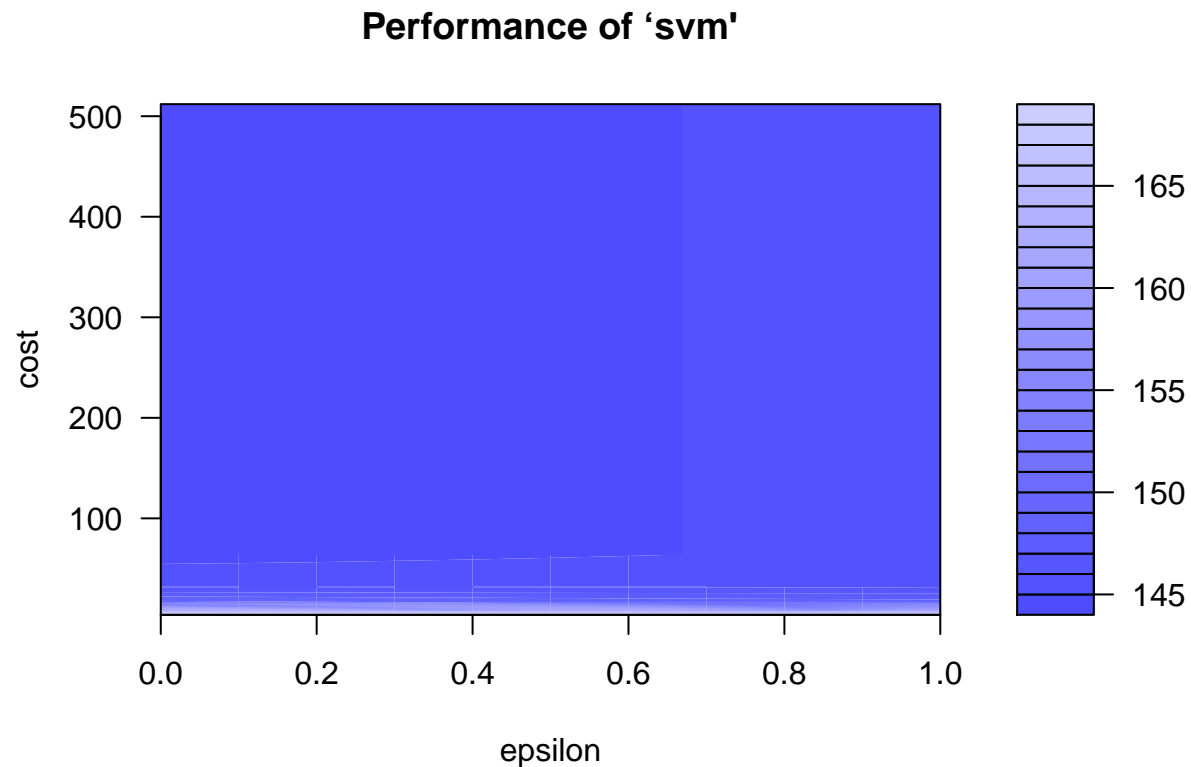
```r
print(tuneResult)
```

```
##
## Parameter tuning of 'svm':
##
## - sampling method: 10-fold cross validation
##
## - best parameters:
##  epsilon cost
##        0   64
##
## - best performance: 144.6857
```

```
# Draw the tuning graph
plot(tuneResult)
```

Performance of 'svm'


```
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] 95.67568
```