

Linear classification and trees

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#Load and tidy data

#read data

```
rawdata <- read.csv("kc_house_data.csv", header = TRUE)
```

#inspect the structure of data

```
str(rawdata)
```

```
## 'data.frame':    21613 obs. of  21 variables:
## $ id             : num  7.13e+09 6.41e+09 5.63e+09 2.49e+09 1.95e+09 ...
## $ date           : Factor w/ 372 levels "20140502T000000",...: 165 221 291 221 284 11 57 252 340 306 .
## $ price          : num  221900 538000 180000 604000 510000 ...
## $ bedrooms       : int   3 3 2 4 3 4 3 3 3 3 ...
## $ bathrooms      : num   1 2.25 1 3 2 4.5 2.25 1.5 1 2.5 ...
## $ sqft_living     : int  1180 2570 770 1960 1680 5420 1715 1060 1780 1890 ...
## $ sqft_lot        : int  5650 7242 10000 5000 8080 101930 6819 9711 7470 6560 ...
## $ floors          : num   1 2 1 1 1 1 2 1 1 2 ...
## $ waterfront     : int   0 0 0 0 0 0 0 0 0 0 ...
## $ view           : int   0 0 0 0 0 0 0 0 0 0 ...
## $ condition       : int   3 3 3 5 3 3 3 3 3 3 ...
## $ grade           : int   7 7 6 7 8 11 7 7 7 7 ...
## $ sqft_above      : int  1180 2170 770 1050 1680 3890 1715 1060 1050 1890 ...
## $ sqft_basement   : int   0 400 0 910 0 1530 0 0 730 0 ...
## $ yr_built        : int  1955 1951 1933 1965 1987 2001 1995 1963 1960 2003 ...
## $ yr_renovated     : int   0 1991 0 0 0 0 0 0 0 0 ...
## $ zipcode         : int  98178 98125 98028 98136 98074 98053 98003 98198 98146 98038 ...
## $ lat             : num   47.5 47.7 47.7 47.5 47.6 ...
## $ long            : num  -122 -122 -122 -122 -122 ...
## $ sqft_living15   : int  1340 1690 2720 1360 1800 4760 2238 1650 1780 2390 ...
## $ sqft_lot15      : int  5650 7639 8062 5000 7503 101930 6819 9711 8113 7570 ...
```

#clean the rawdata; create a tidied dataset for analysis and modelling.

#subset data: only those with view >0 and basement >0.

```
housing =
  rawdata %>%
  select(-id, -date, -zipcode, -lat, -long) %>%
  filter(view > 0, bedrooms <30) %>%
  mutate(basement = ifelse(sqft_basement == 0, 0, 1),
         renovated = ifelse(yr_renovated == 0, 0, 1)) %>%
  filter(basement > 0) %>%
  select(-sqft_basement, -yr_renovated, -view, -sqft_living, -sqft_lot, -basement)
```

dichotomize response variable

```
median(housing$price) #805000
```

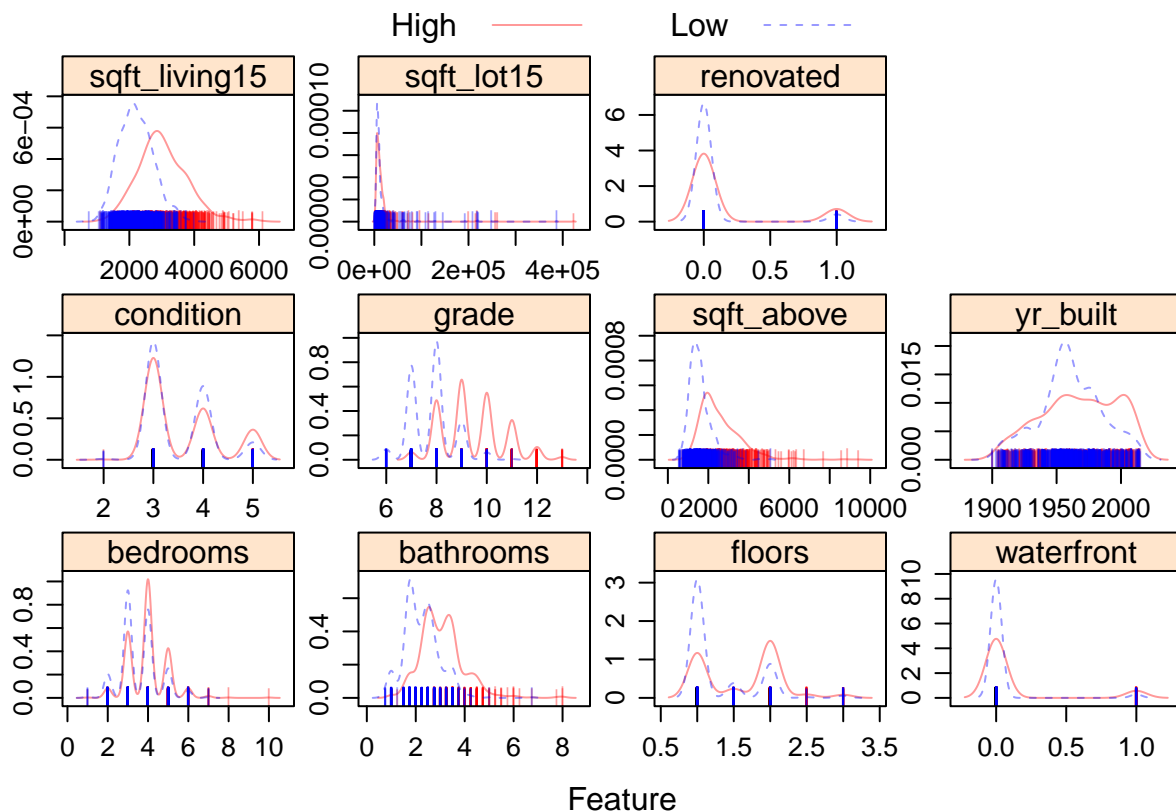
```
## [1] 805000
```

```
housing <- housing %>% mutate(price.new = ifelse(price>805000, "High", "Low"))
housing$price.new <- factor(housing$price.new, c("High", "Low"))
```

```
# create training data and testing data.
rowTrain <- createDataPartition(y = housing$price,
                                p=0.8, list = FALSE)
```

Data visuailization

```
transparentTheme(trans = 0.4)
featurePlot(x = housing[,2:12],
            y = housing$price.new,
            scales = list(x = list(relation = "free"),
                          y = list(relation = "free")),
            plot = "density", pch = "|",
            auto.key = list(columns = 2))
```



From the feature plot we could see that, the two classes of price are distributed differently in features.

Logistic Regression

```
# Use caret package
ctrl = trainControl(method = "cv",
                    summaryFunction = twoClassSummary,
                    classProbs = T)

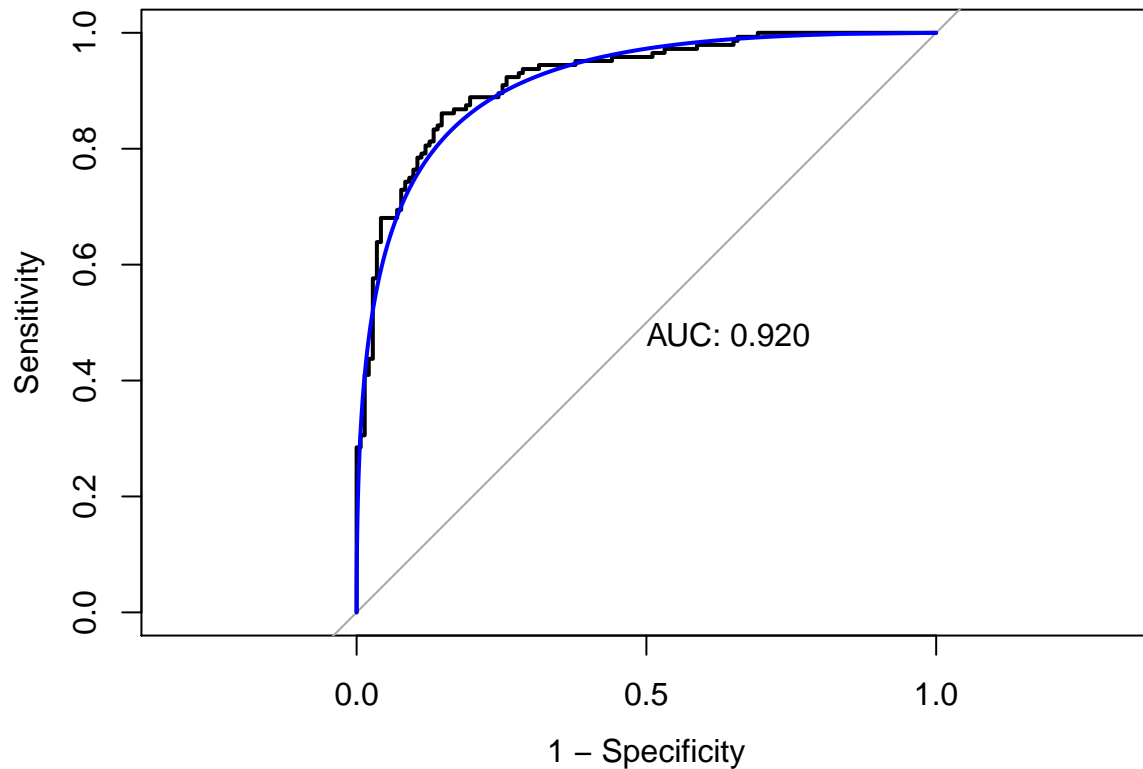
set.seed(1)
model.glm = train(x = housing[rowTrain, 2:12],
```

```

        y = housing$price.new[rowTrain],
        method = "glm",
        metric = "ROC",
        trControl = ctrl)
# test performance
pred.glm = predict(model.glm, newdata = housing[-rowTrain,2:13], response = "prob")
pred.glm.prob = predict(model.glm, newdata = housing[-rowTrain,2:13], type = "prob")
confusionMatrix(data = as.factor(pred.glm), reference = housing$price.new[-rowTrain])

## Confusion Matrix and Statistics
##
##           Reference
## Prediction High Low
##      High  114  16
##      Low   29 128
##
##              Accuracy : 0.8432
##              95% CI : (0.7959, 0.8833)
##      No Information Rate : 0.5017
##      P-Value [Acc > NIR] : < 2e-16
##
##              Kappa : 0.6863
##  Mcnemar's Test P-Value : 0.07364
##
##      Sensitivity : 0.7972
##      Specificity : 0.8889
##      Pos Pred Value : 0.8769
##      Neg Pred Value : 0.8153
##      Prevalence : 0.4983
##      Detection Rate : 0.3972
##      Detection Prevalence : 0.4530
##      Balanced Accuracy : 0.8430
##
##      'Positive' Class : High
##
# plot the ROC curve
roc.glm = roc(housing$price.new[-rowTrain], pred.glm.prob$High)
plot(roc.glm, legacy.axes = T, print.auc = T)
plot(smooth(roc.glm), col = 4, add = T)

```

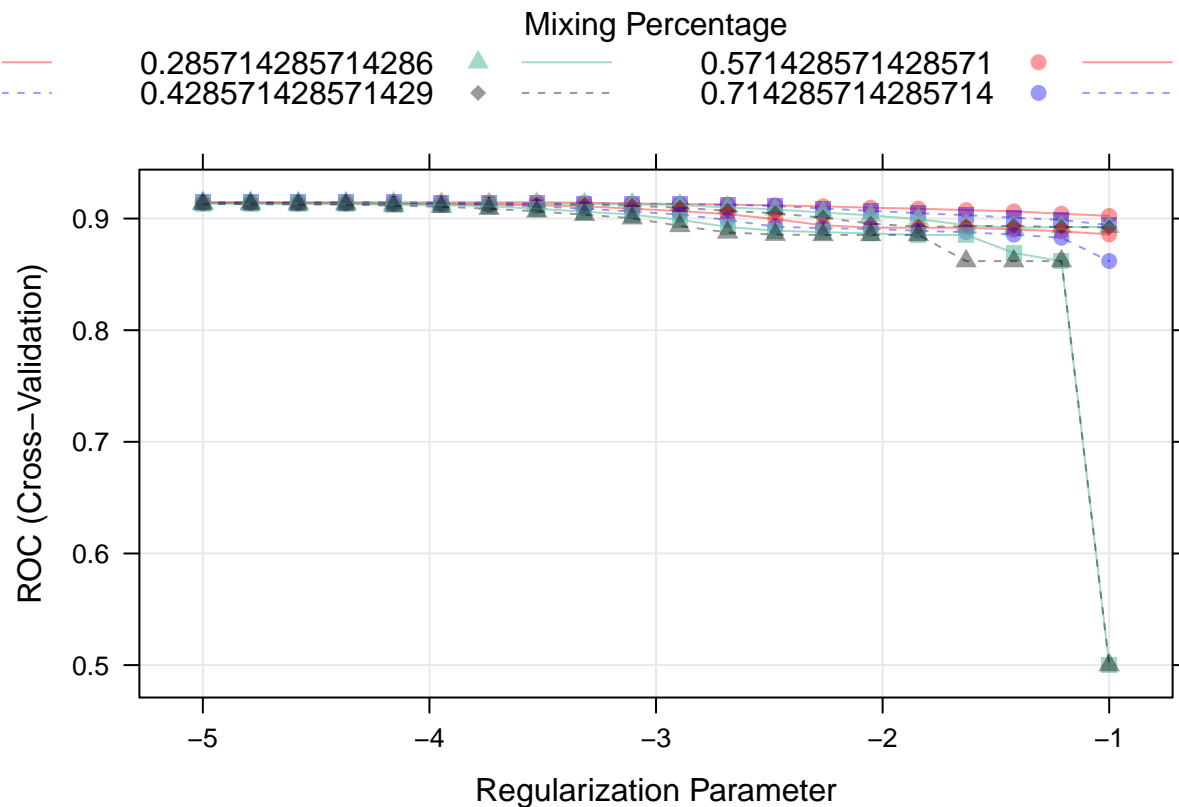


The AUC is 0.943. The accuracy is 0.8676. Sensitivity is 0.8042, Specificity is 0.9306.

```
glmnetGrid = expand.grid(.alpha = seq(0, 1, length = 8),
                        .lambda = exp(seq(-5, -1, length = 20)))

set.seed(1)
model.glmnet = train(x = housing[rowTrain, 2:12],
                    y = housing$price.new[rowTrain],
                    method = "glmnet",
                    tuneGrid = glmnetGrid,
                    metric = "ROC",
                    trControl = ctrl)

plot(model.glmnet, xTrans = function(x) log(x))
```



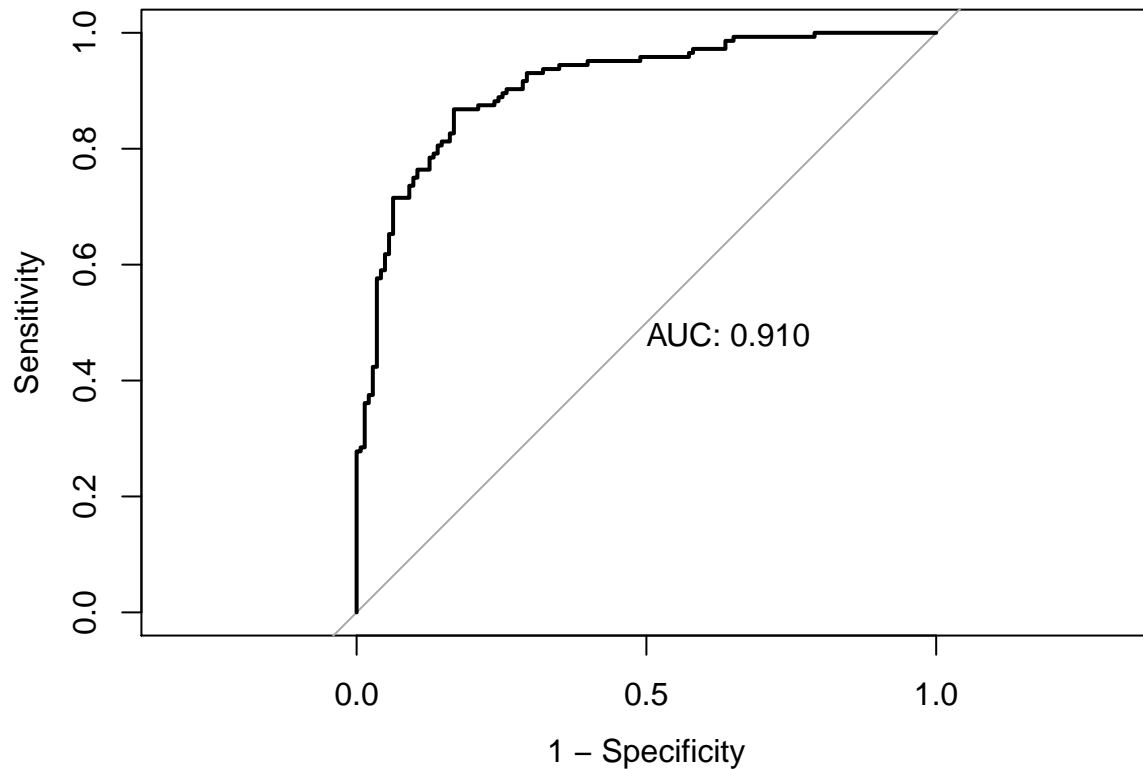
```
pred.glmn = predict(model.glmn, newdata = housing[-rowTrain, 2:13], type = "prob")
```

Discriminant Analysis

```
library(MASS)
```

```
##
## Attaching package: 'MASS'
##
## The following object is masked _by_ '.GlobalEnv':
##
##   housing
##
## The following object is masked from 'package:dplyr':
##
##   select
```

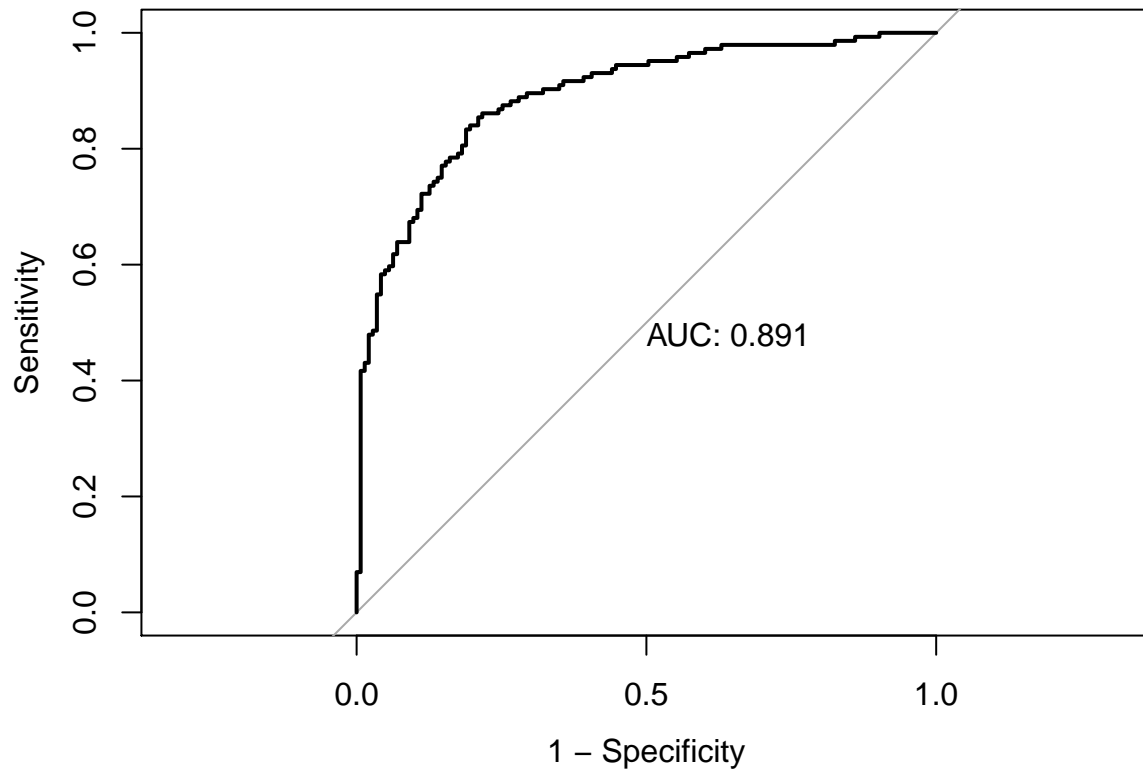
```
set.seed(1)
model.lda = train(x = housing[rowTrain, 2:12],
                  y = housing$price.new[rowTrain],
                  method = "lda",
                  metric = "ROC",
                  trControl = ctrl)
pred.lda = predict(model.lda, newdata = housing[-rowTrain, 2:13], type = "prob")
roc.lda = roc(housing$price.new[-rowTrain], pred.lda$High, levels = c("High", "Low"))
plot(roc.lda, legacy.axes = T, print.auc = T)
```



The AUC for LDA is 0.933.

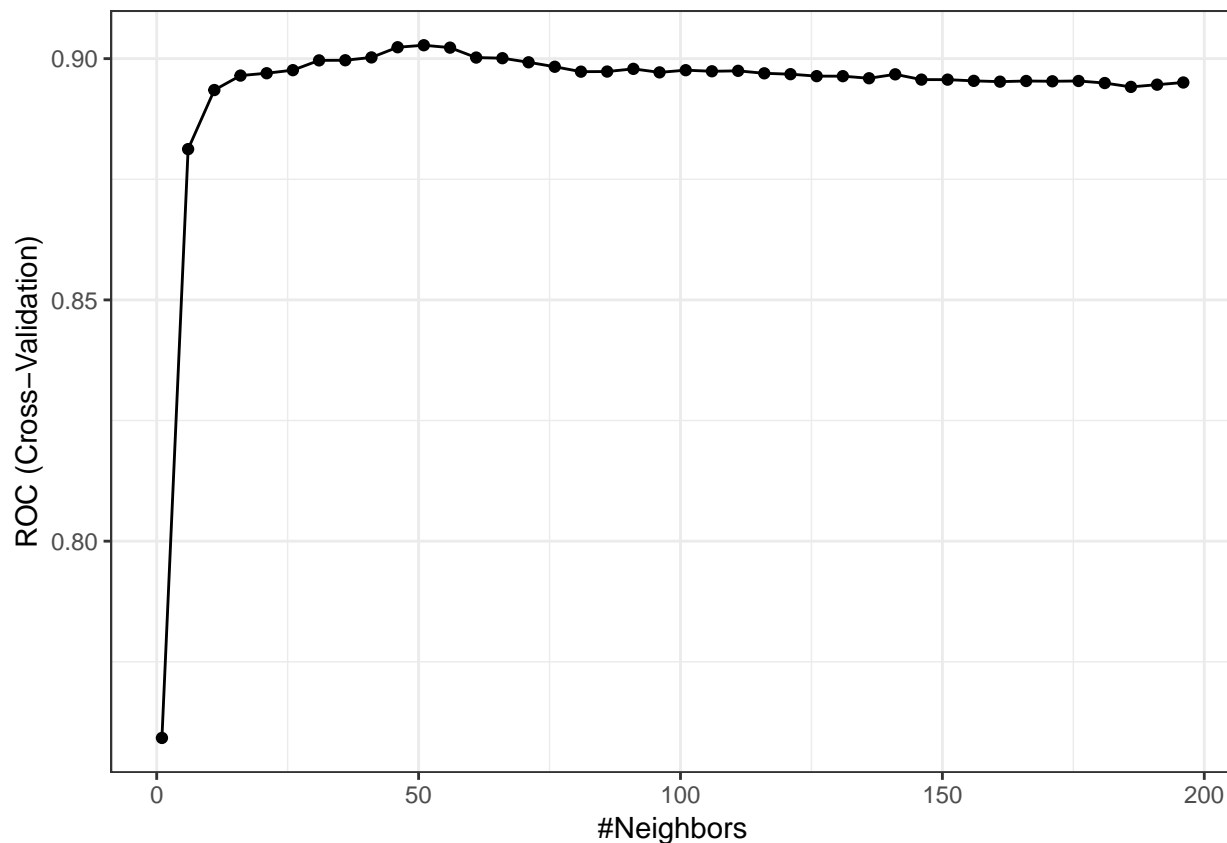
```
set.seed(1)
model.qda = train(x = housing[rowTrain, 2:12],
                  y = housing$price.new[rowTrain],
                  method = "qda",
                  metric = "ROC",
                  trControl = ctrl)

pred.qda = predict(model.qda, newdata = housing[-rowTrain, 2:13], type = "prob")
roc.qda = roc(housing$price.new[-rowTrain], pred.qda$High, levels = c("High", "Low"))
plot(roc.qda, legacy.axes = T, print.auc = T)
```



The AUC for QDA is 0.889.

```
set.seed(1)
model.knn = train(x = housing[rowTrain, 2:12],
                  y = housing$price.new[rowTrain],
                  method = "knn",
                  preProcess = c("center", "scale"),
                  metric = "ROC",
                  tuneGrid = data.frame(k = seq(1, 200, by = 5)),
                  trControl = ctrl)
ggplot(model.knn) + theme_bw()
```



```
pred.knn = predict(model.knn, newdata = housing[-rowTrain, 2:13], type = "prob")
```

```
set.seed(1)
nbGrid = expand.grid(usekernel = c(F, T),
                     fL = 1,
                     adjust = seq(0, 5, by = 1))
model.nb = train(x = housing[rowTrain, 2:12],
                 y = housing$price.new[rowTrain],
                 method = "nb",
                 metric = "ROC",
                 tuneGrid = nbGrid,
                 trControl = ctrl)
```

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## observation 6
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: model fit failed for Fold01: usekernel= TRUE, fL=1, adjust=0 Error in density.default(xx, .
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 117

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 117

## Warning: model fit failed for Fold02: usekernel= TRUE, fL=1, adjust=0 Error in density.default(xx, .
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 2

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 3
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 4

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 5

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 6

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 7

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 8

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 9

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 10

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 11

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 25

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning: model fit failed for Fold03: usekernel= TRUE, fL=1, adjust=0 Error in density.default(xx, .
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 2

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 3

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 4

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 5

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 6

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 91

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 92
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 116

## Warning: model fit failed for Fold04: usekernel= TRUE, fL=1, adjust=0 Error in density.default(xx, .
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 76
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 116

## Warning: model fit failed for Fold05: usekernel= TRUE, fL=1, adjust=0 Error in density.default(xx, .
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 2

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 3

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 4

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 5

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 6

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 7

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 8

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 9

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 10

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 11

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 24
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 25

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 44

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 45
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 46

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 66
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 87
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 108
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning: model fit failed for Fold06: usekernel= TRUE, fL=1, adjust=0 Error in density.default(xx, .

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 2

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 65

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 66
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning: model fit failed for Fold07: usekernel= TRUE, fL=1, adjust=0 Error in density.default(xx, .
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 15

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning: model fit failed for Fold08: usekernel= TRUE, fL=1, adjust=0 Error in density.default(xx, .

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 78

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 116

## Warning: model fit failed for Fold09: usekernel= TRUE, fL=1, adjust=0 Error in density.default(xx, .
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 2

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 85

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 86

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 87
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 88

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 116

## Warning: model fit failed for Fold10: usekernel= TRUE, fL=1, adjust=0 Error in density.default(xx, .
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 50

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 67
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 2

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 14
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 97

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 98
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 112

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 116

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =
## trainInfo, : There were missing values in resampled performance measures.
pred.nb = predict(model.nb, newdata = housing[-rowTrain, 2:13], type = "prob")

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 2

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 3

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 4

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 65
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 125

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 283

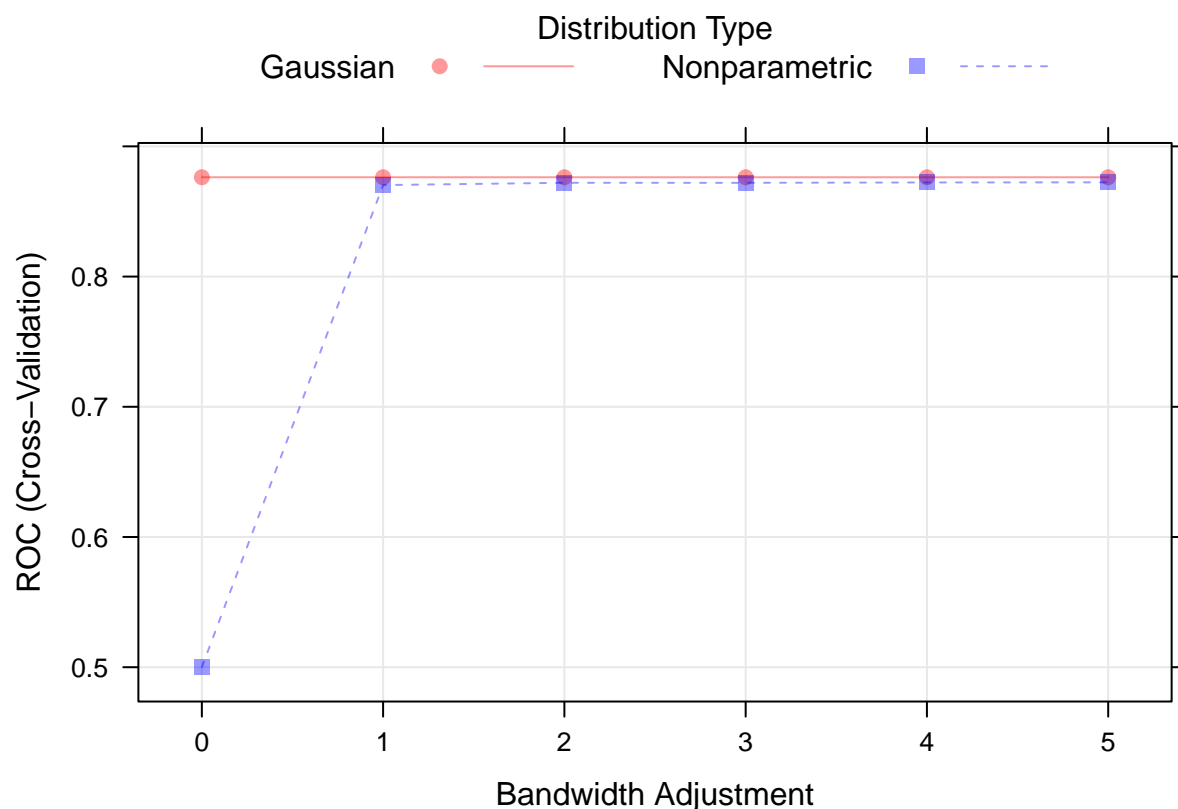
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 284

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 285

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 286

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 287

plot(model.nb)
```



Model Comparism

```
res = resamples(list(GLM = model.glm, LDA = model.lda, QDA = model.qda, NB = model.nb, KNN = model.knn))
summary(res)
```

```
##
## Call:
## summary.resamples(object = res)
##
## Models: GLM, LDA, QDA, NB, KNN
## Number of resamples: 10
##
## ROC
##      Min.   1st Qu.   Median     Mean   3rd Qu.   Max. NA's
## GLM 0.8787158 0.8966363 0.9218897 0.9134784 0.9252874 0.9399524    0
## LDA 0.8737580 0.8939050 0.9195545 0.9093017 0.9244542 0.9310345    0
## QDA 0.8070749 0.8567886 0.8671829 0.8674360 0.8839453 0.9143876    0
## NB  0.8287961 0.8465822 0.8826376 0.8762647 0.8977849 0.9230083    0
## KNN 0.8547860 0.8806715 0.9051391 0.9027787 0.9247580 0.9399524    0
##
## Sens
##      Min.   1st Qu.   Median     Mean   3rd Qu.   Max. NA's
## GLM 0.7586207 0.8078494 0.8245614 0.8229885 0.8275862 0.8965517    0
## LDA 0.7068966 0.7327586 0.7912886 0.7779189 0.8035390 0.8771930    0
## QDA 0.6491228 0.6896552 0.7129462 0.7239564 0.7704930 0.8103448    0
```

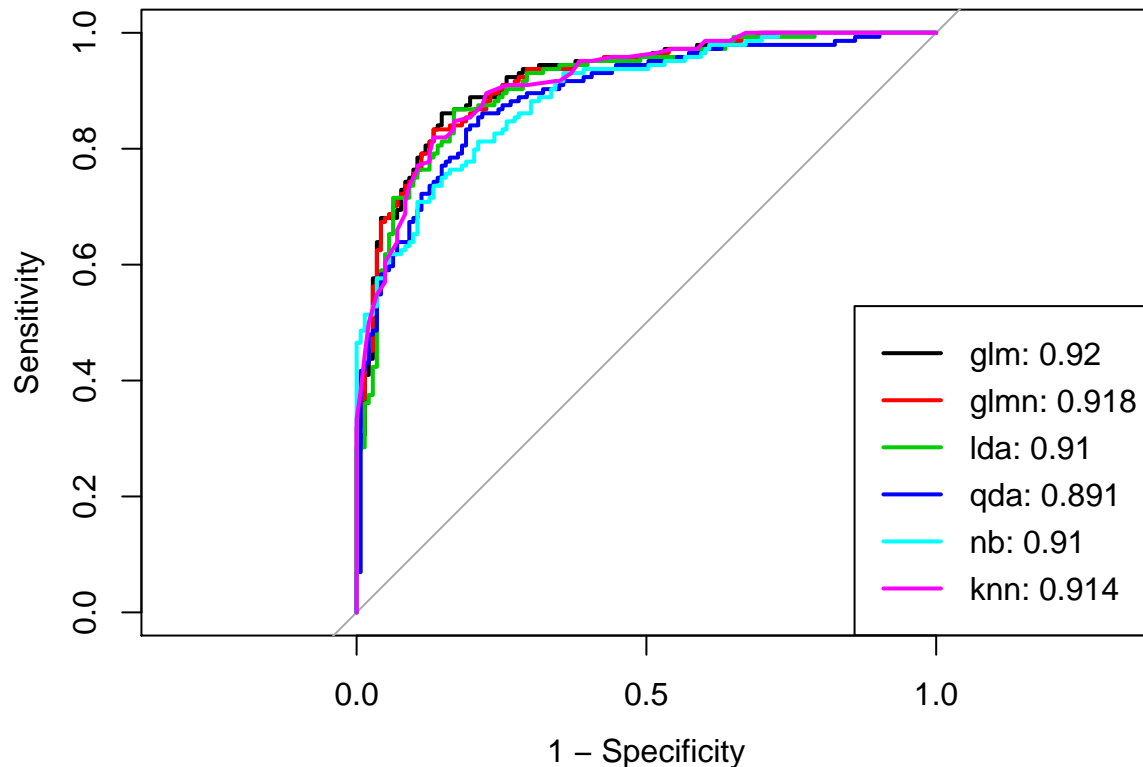
```
## NB 0.6724138 0.7205082 0.7478826 0.7500000 0.7844828 0.8245614 0
## KNN 0.7017544 0.7758621 0.8157895 0.8089534 0.8448276 0.8965517 0
##
## Spec
##      Min.      1st Qu.      Median      Mean      3rd Qu.      Max. NA's
## GLM 0.7758621 0.8146552 0.8461426 0.8471946 0.8879310 0.9310345 0
## LDA 0.8103448 0.8427089 0.8965517 0.8815020 0.8978667 0.9655172 0
## QDA 0.7758621 0.8146552 0.8461426 0.8418761 0.8638223 0.8965517 0
## NB 0.7931034 0.8275862 0.8461426 0.8488603 0.8620690 0.9310345 0
## KNN 0.7627119 0.7974138 0.8448276 0.8282291 0.8577586 0.8644068 0
```

GLM and LDA tend to have higher AUC values.

```
roc.glmn = roc(housing$price.new[-rowTrain], pred.glmn[,2])
roc.nb = roc(housing$price.new[-rowTrain], pred.nb[,2])
roc.knn = roc(housing$price.new[-rowTrain], pred.knn[,2])

auc = c(roc.glm$auc[1], roc.glmn$auc[1], roc.lda$auc[1],
        roc.qda$auc[1], roc.lda$auc[1], roc.knn$auc[1])

plot(roc.glm, legacy.axes = T)
plot(roc.glmn, col = 2, add = T)
plot(roc.lda, col = 3, add = T)
plot(roc.qda, col = 4, add = T)
plot(roc.nb, col = 5, add = T)
plot(roc.knn, col = 6, add = T)
modelNames = c("glm", "glmn", "lda", "qda", "nb", "knn")
legend("bottomright", legend = paste0(modelNames, ": ", round(auc, 3)), col = 1:6, lwd = 2)
```



Regression Trees

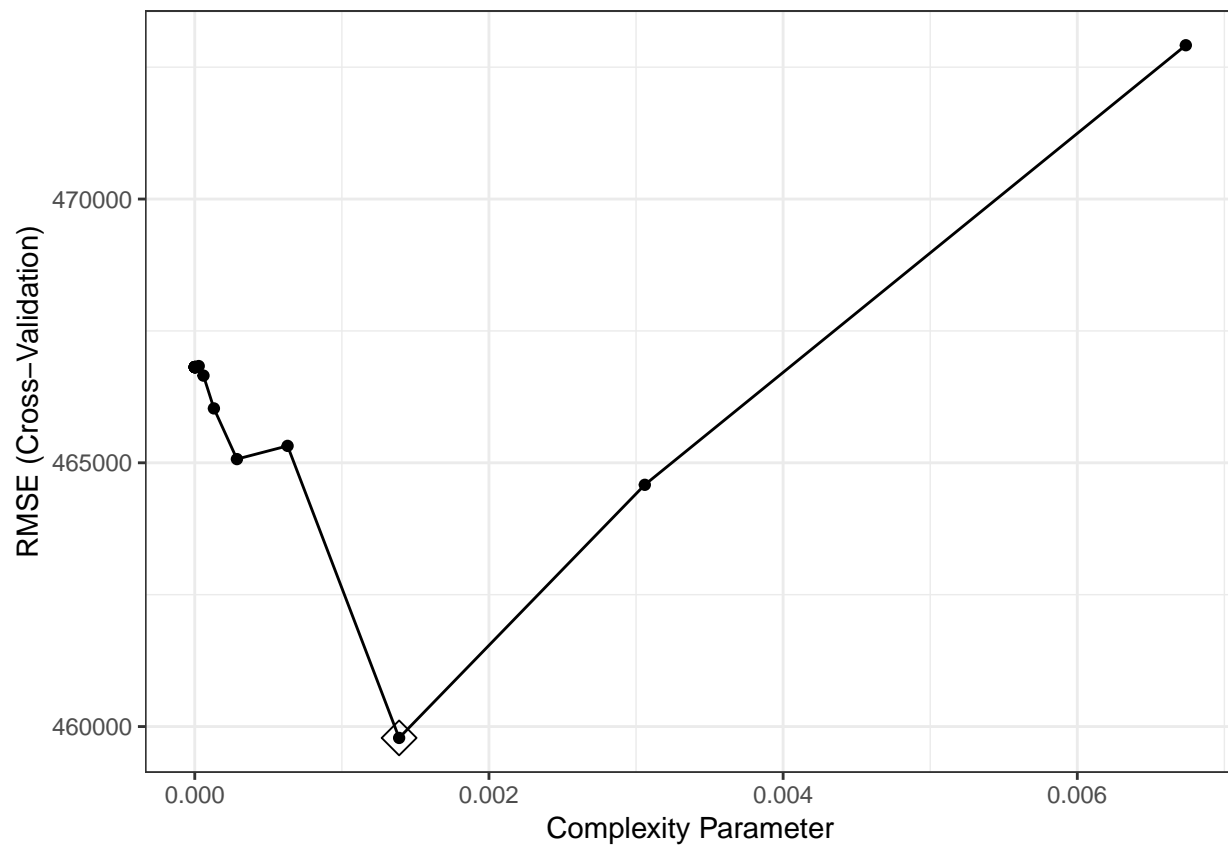
```
set.seed(1)
library(rpart.plot)

## Warning: package 'rpart.plot' was built under R version 3.5.3
## Loading required package: rpart

housing =
  rawdata %>%
  dplyr::select(-id, -date, -zipcode, -lat, -long) %>%
  filter(view > 0, bedrooms < 30) %>%
  mutate(basement = ifelse(sqft_basement == 0, 0, 1),
         renovated = ifelse(yr_renovated == 0, 0, 1)) %>%
  filter(basement > 0) %>%
  dplyr::select(-sqft_basement, -yr_renovated, -view, -sqft_living, -sqft_lot, -basement)
housing = na.omit(housing)

ctrl1 = trainControl(method = "cv", number = 10)
rpart.fit = train(price~., housing,
                  method = "rpart",
                  tuneGrid = data.frame(cp = exp(seq(-20, -5, length = 20))),
                  trControl = ctrl1)

ggplot(rpart.fit, highlight = T) + theme_bw()
```

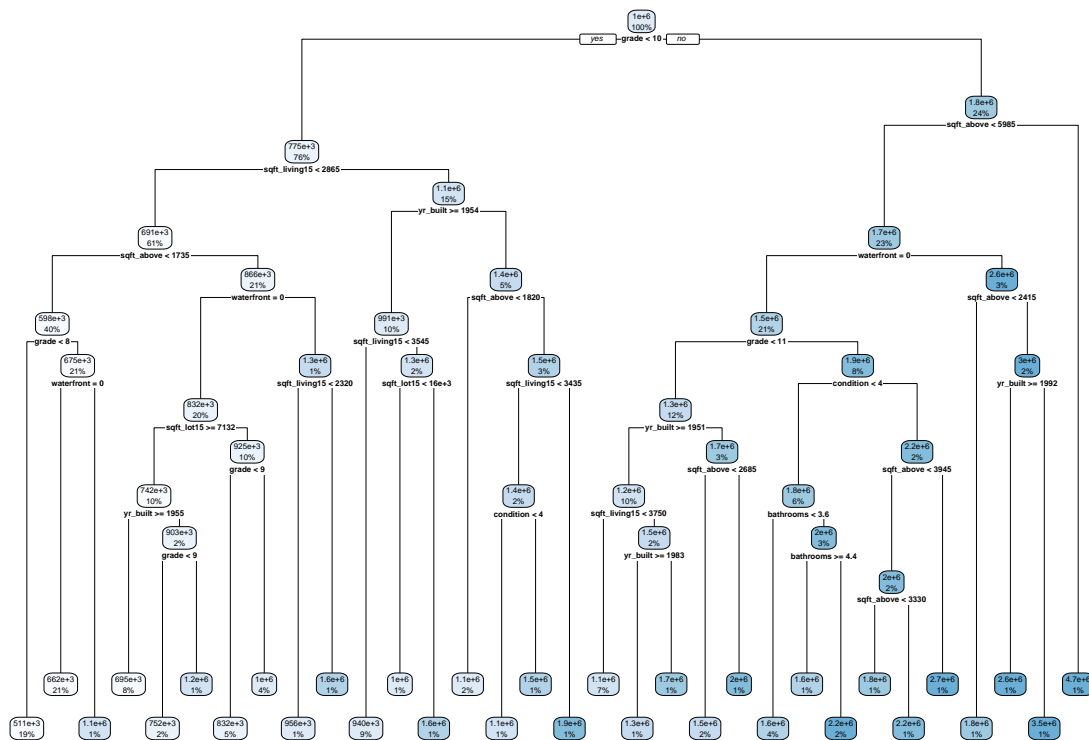


```
rpart.fit$finalModel$cptable
```

##	CP	nsplit	rel error
## 1	0.347972599	0	1.0000000
## 2	0.120364953	1	0.6520274
## 3	0.054320762	2	0.5316624
## 4	0.043453850	3	0.4773417
## 5	0.027721368	4	0.4338878
## 6	0.019599772	5	0.4061665
## 7	0.015964791	6	0.3865667
## 8	0.010705965	7	0.3706019
## 9	0.009684767	8	0.3598959
## 10	0.006843633	9	0.3502112
## 11	0.006279519	10	0.3433675
## 12	0.006069700	11	0.3370880
## 13	0.005251318	12	0.3310183
## 14	0.005199933	13	0.3257670
## 15	0.005047791	14	0.3205671
## 16	0.004979332	15	0.3155193
## 17	0.004732901	16	0.3105399
## 18	0.004686030	17	0.3058070
## 19	0.004466411	18	0.3011210
## 20	0.003792708	19	0.2966546
## 21	0.003259688	20	0.2928619
## 22	0.002957927	21	0.2896022
## 23	0.002818640	22	0.2866443

```
## 24 0.002045235    23 0.2838256
## 25 0.001956454    24 0.2817804
## 26 0.001935589    25 0.2798240
## 27 0.001911743    27 0.2759528
## 28 0.001887865    28 0.2740410
## 29 0.001575524    29 0.2721532
## 30 0.001501664    30 0.2705776
## 31 0.001389311    31 0.2690760
```

```
rpart.plot(rpart.fit$finalModel)
```



```
# 1se rule
rpart.fit.1se = train(price~., housing,
  method = "rpart",
  tuneGrid = data.frame(cp = exp(seq(-20, -5, length = 20))),
  trControl = trainControl(method = "cv", number = 10, selectionFunction = "oneSE"))

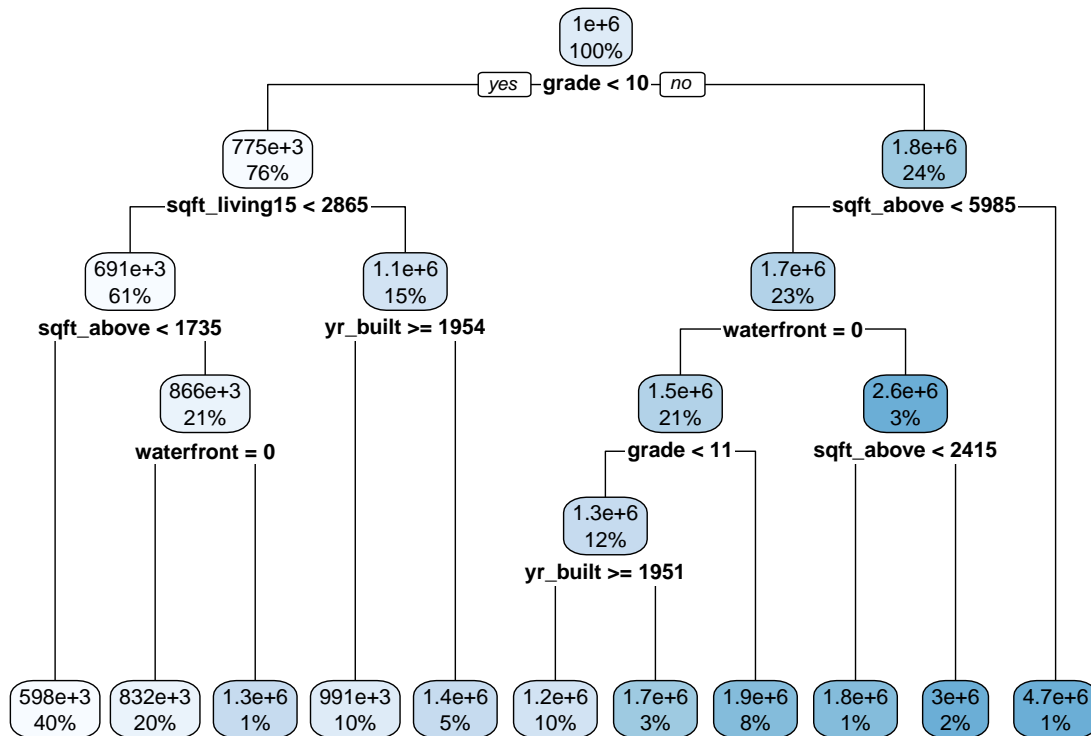
rpart.fit.1se$finalModel$cptable
```

```
##          CP nsplit rel error
## 1  0.347972599      0 1.0000000
## 2  0.120364953      1 0.6520274
## 3  0.054320762      2 0.5316624
## 4  0.043453850      3 0.4773417
## 5  0.027721368      4 0.4338878
## 6  0.019599772      5 0.4061665
## 7  0.015964791      6 0.3865667
```



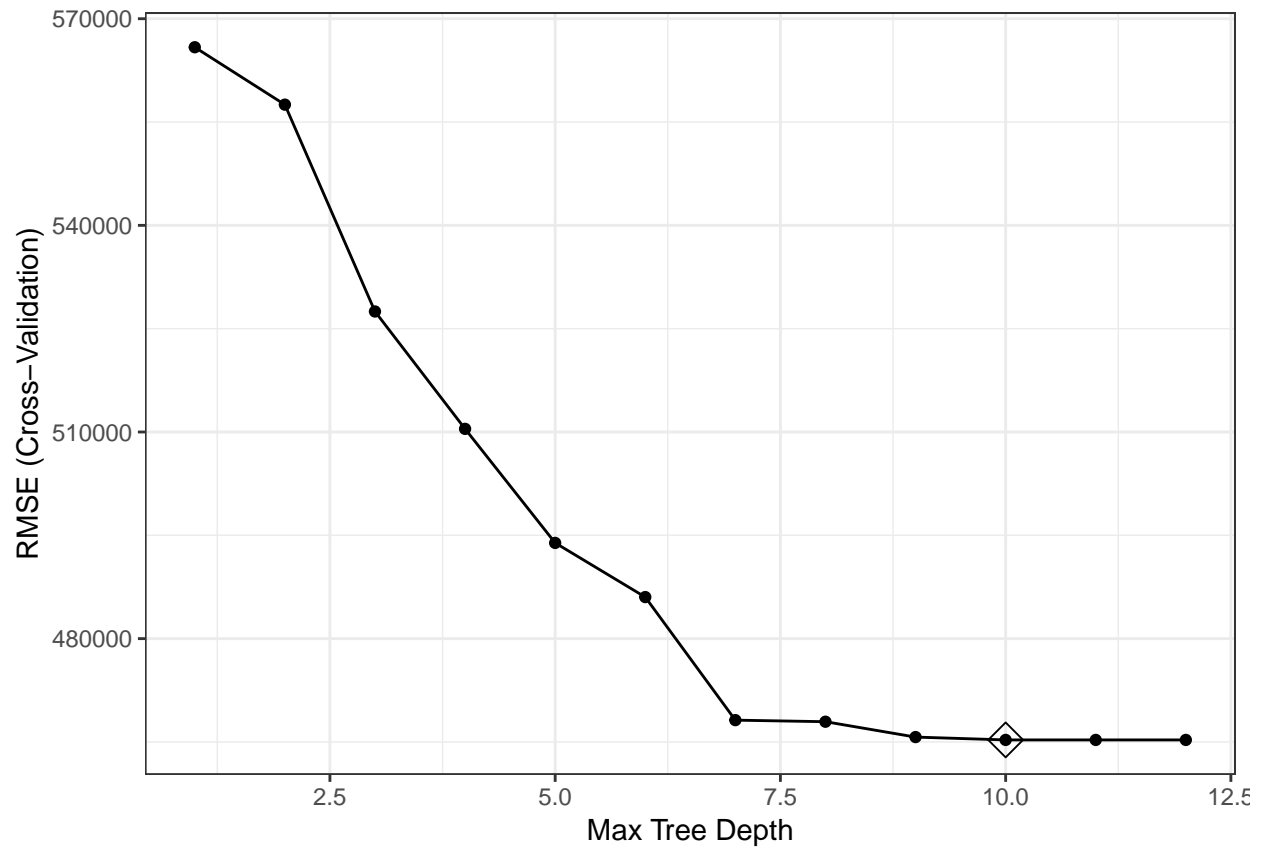
```
## 8 0.010705965      7 0.3706019
## 9 0.009684767      8 0.3598959
## 10 0.006843633     9 0.3502112
## 11 0.006737947    10 0.3433675
```

```
rpart.plot(rpart.fit.1se$finalModel)
```

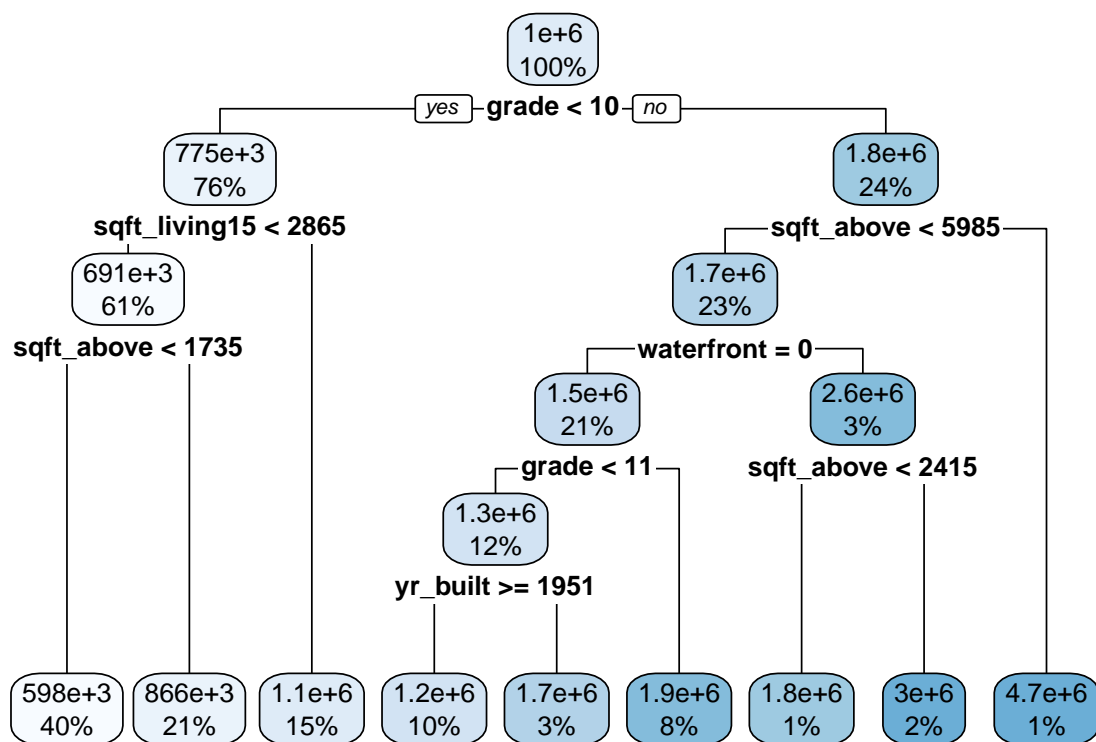


The 1se rule provided a much more simple model.

```
# tune over maximum depth, method = "rpart2"
set.seed(1)
rpart2.fit = train(price~., housing,
  method = "rpart2",
  tuneGrid = data.frame(maxdepth = 1:12),
  trControl = ctrl1)
ggplot(rpart2.fit, highlight = T) + theme_bw()
```



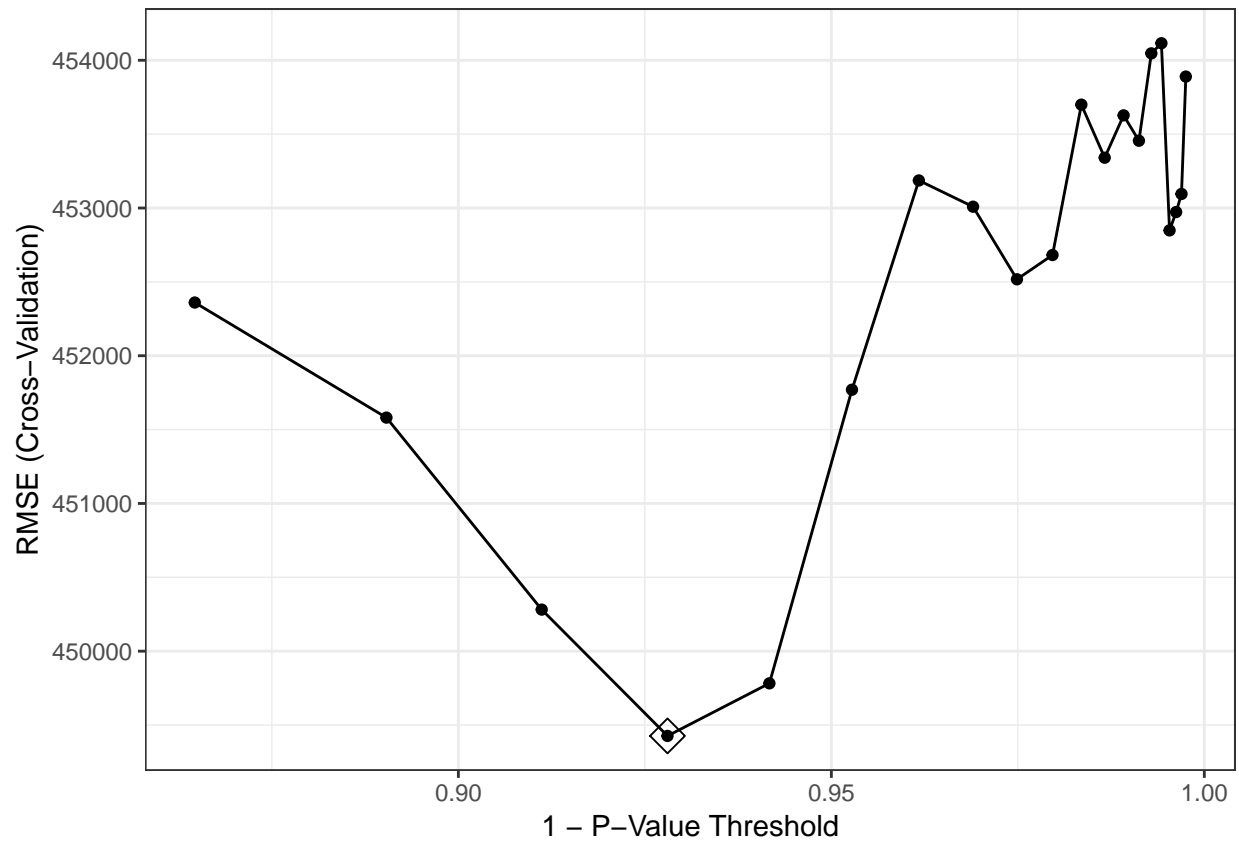
```
rpart.plot(rpart2.fit$finalModel)
```



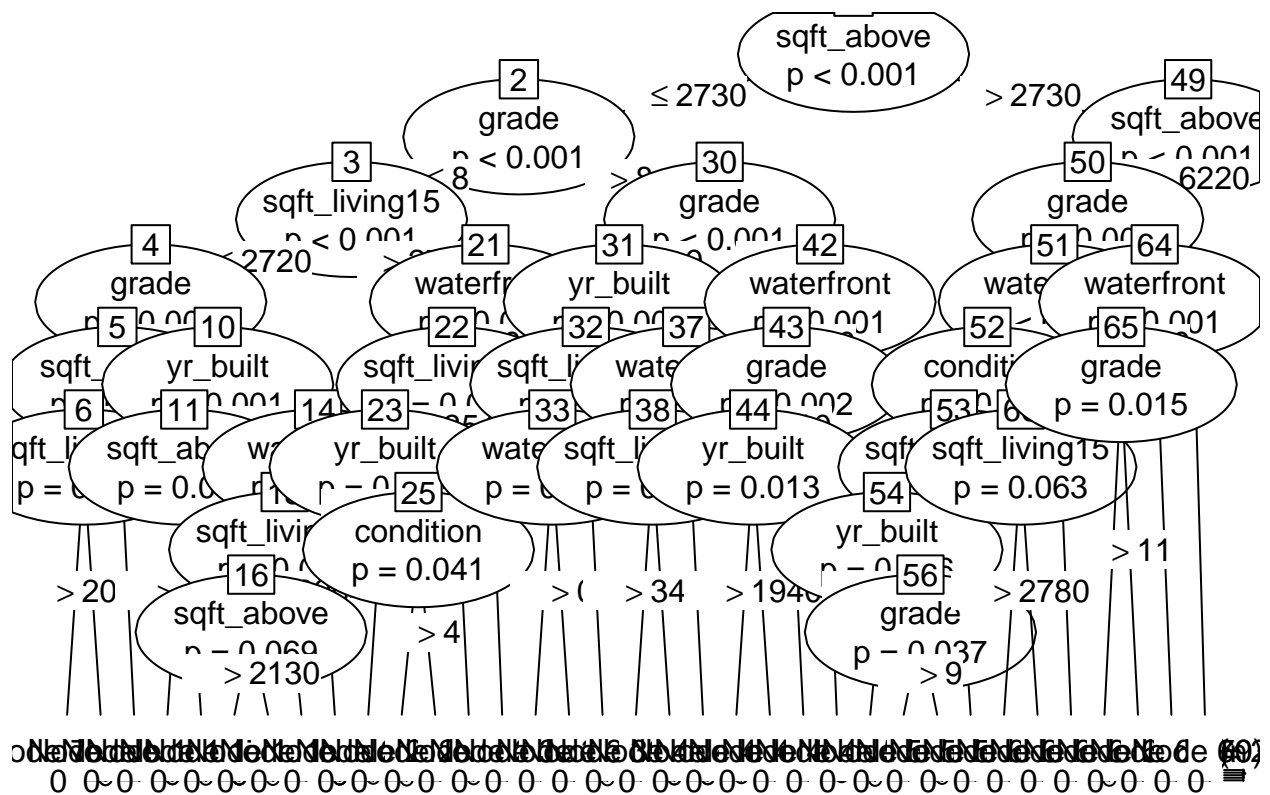
```

# fit a conditional inference tree
set.seed(1)
ctree.fit = train(price~., housing,
  method = "ctree",
  tuneGrid = data.frame(mincriterion = 1 - exp(seq(-6, -2, length = 20))),
  trControl = ctrl1)
ggplot(ctree.fit, highlight = T) + theme_bw()

```



```
plot(ctree.fit$finalModel)
```



Ensemble Methods

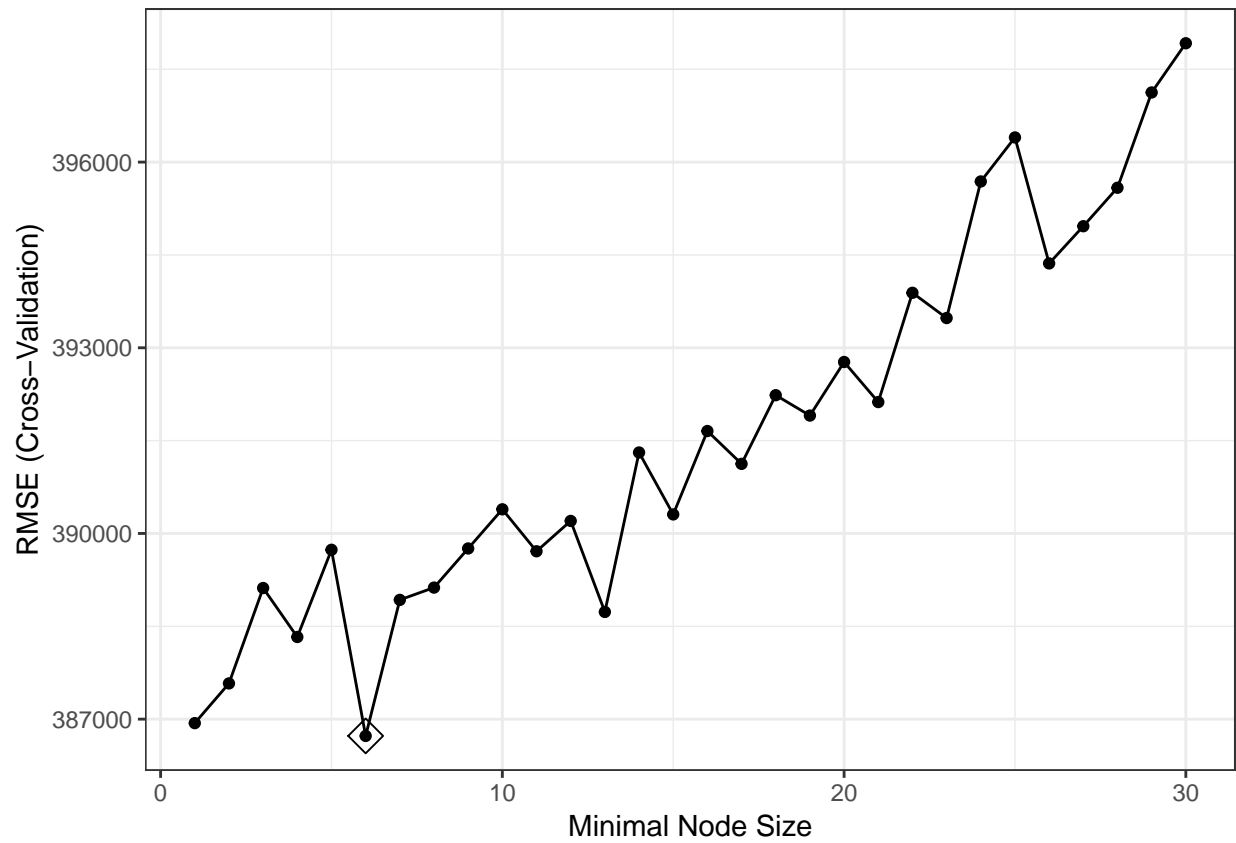
Bagging and Random forests

```
# bagging
bagging.grid = expand.grid(mtry = 11,
                           splitrule = "variance",
                           min.node.size = 1:30)

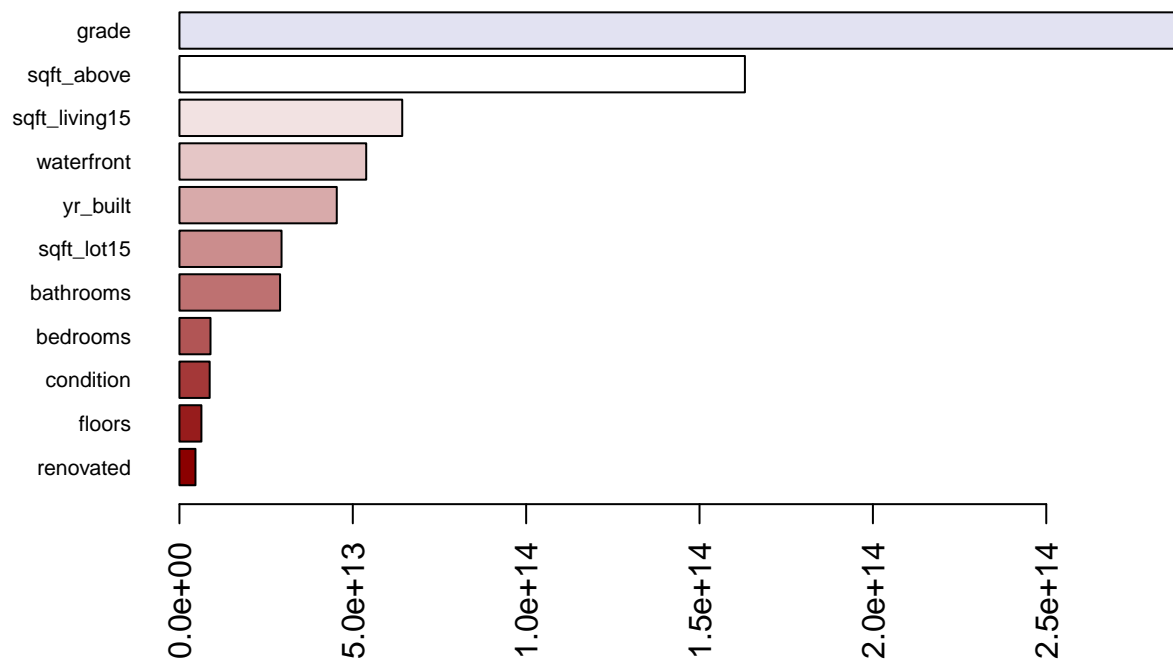
set.seed(1)

bagging.fit = train(price~., housing,
                    method = "ranger",
                    tuneGrid = bagging.grid,
                    trControl = ctrl1,
                    importance = "impurity")

ggplot(bagging.fit, highlight = T) + theme_bw()
```



```
# check variable importance
barplot(sort(ranger::importance(bagging.fit$finalModel), decreasing = FALSE),
  las = 2, horiz = T, cex.names = 0.7,
  col = colorRampPalette(colors = c("darkred", "white", "darkblue"))(19))
```

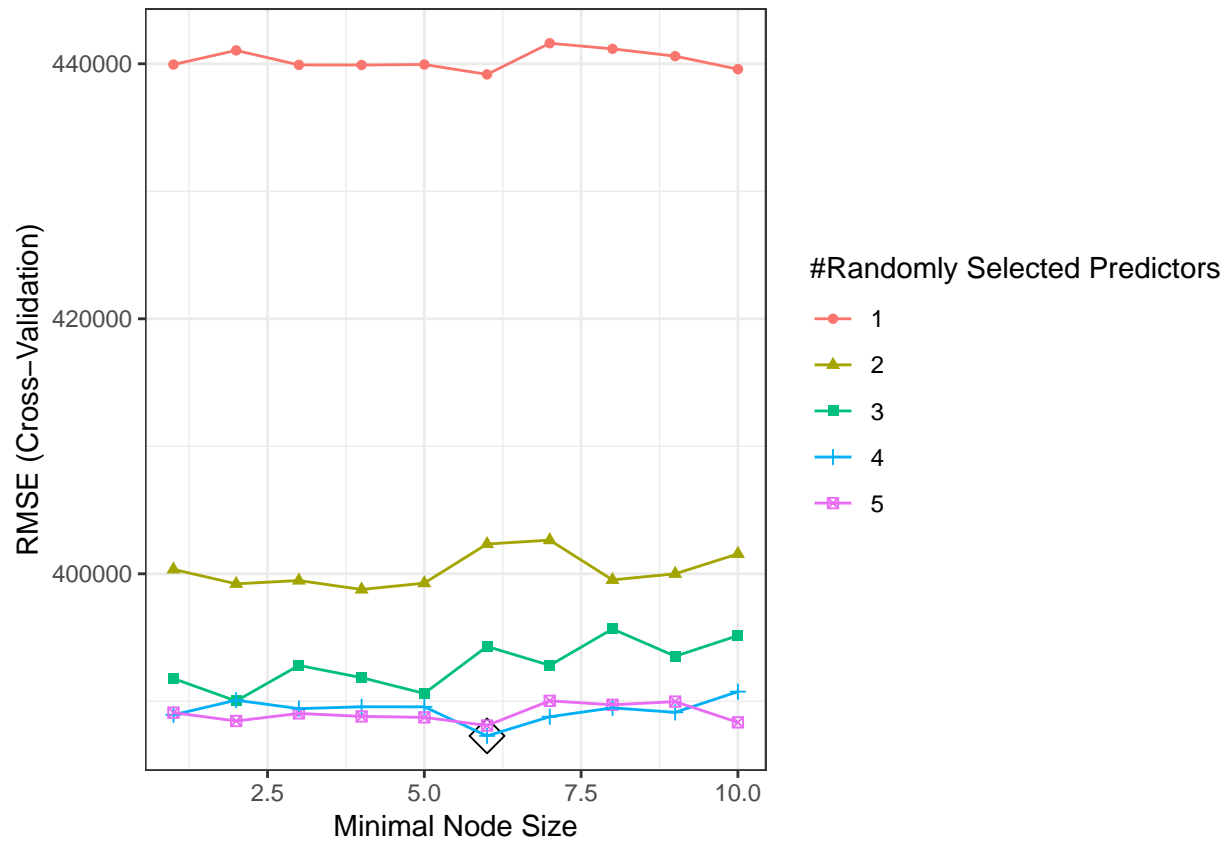


The most important variables are grade, the area above and the area of living room.

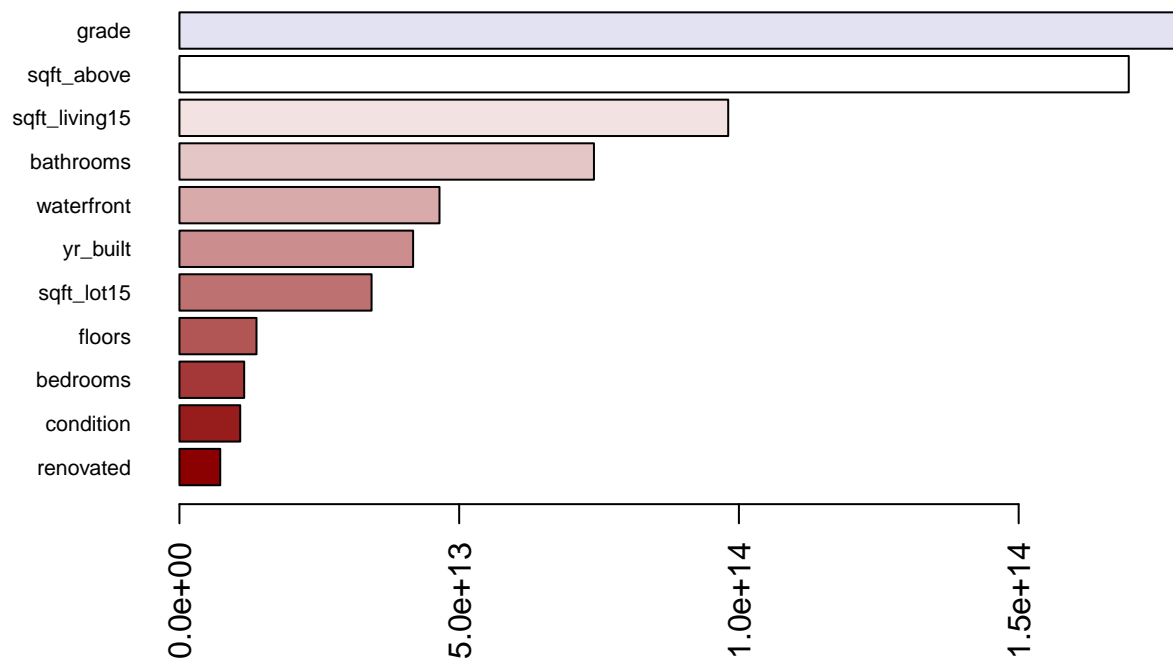
```
# ranger
rf.grid = expand.grid(mtry = 1:5, splitrule = "variance",
                     min.node.size = 1:10)

set.seed(1)
rf.fit = train(price~., housing,
               method = "ranger",
               tuneGrid = rf.grid,
               trControl = ctrl1,
               importance = "impurity")

ggplot(rf.fit, highlight = T) + theme_bw()
```



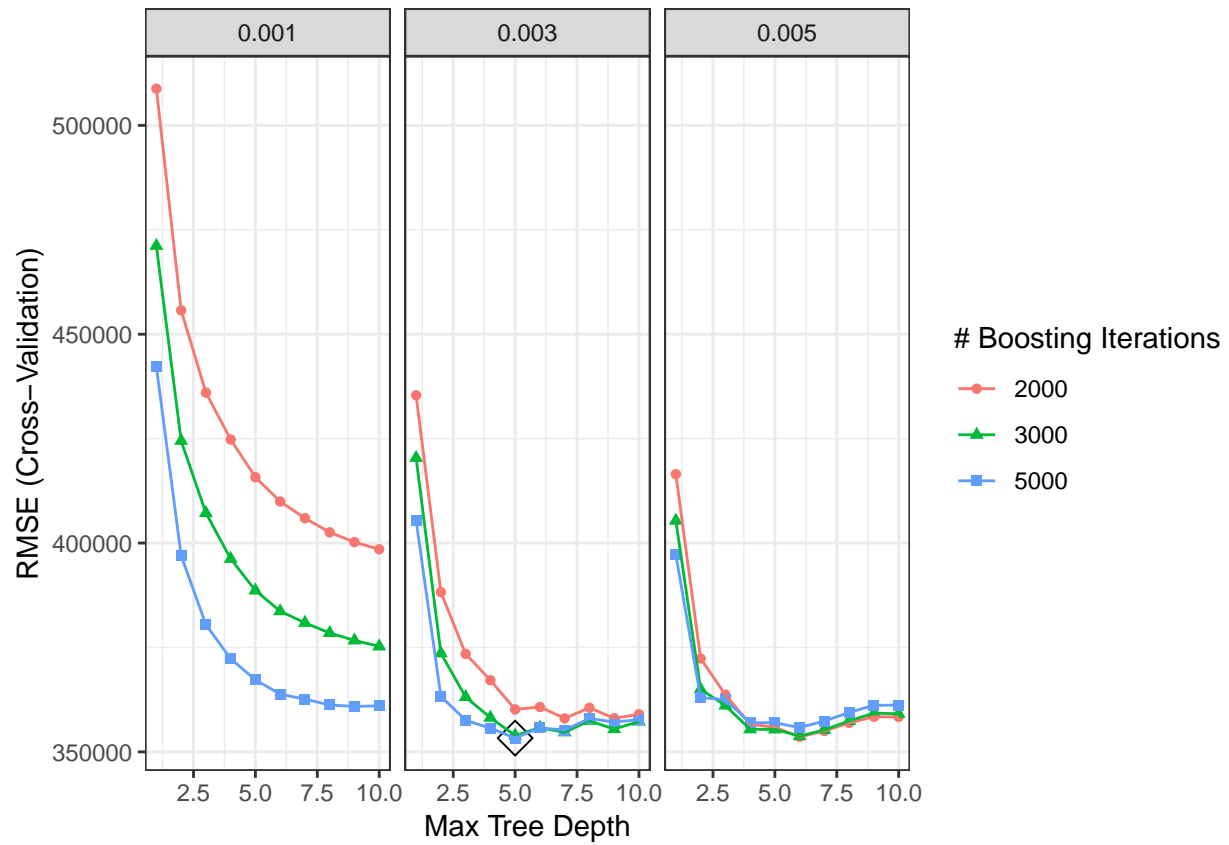
```
# check variable importance
barplot(sort(ranger::importance(rf.fit$finalModel), decreasing = FALSE),
  las = 2, horiz = T, cex.names = 0.7,
  col = colorRampPalette(colors = c("darkred", "white", "darkblue"))(19))
```

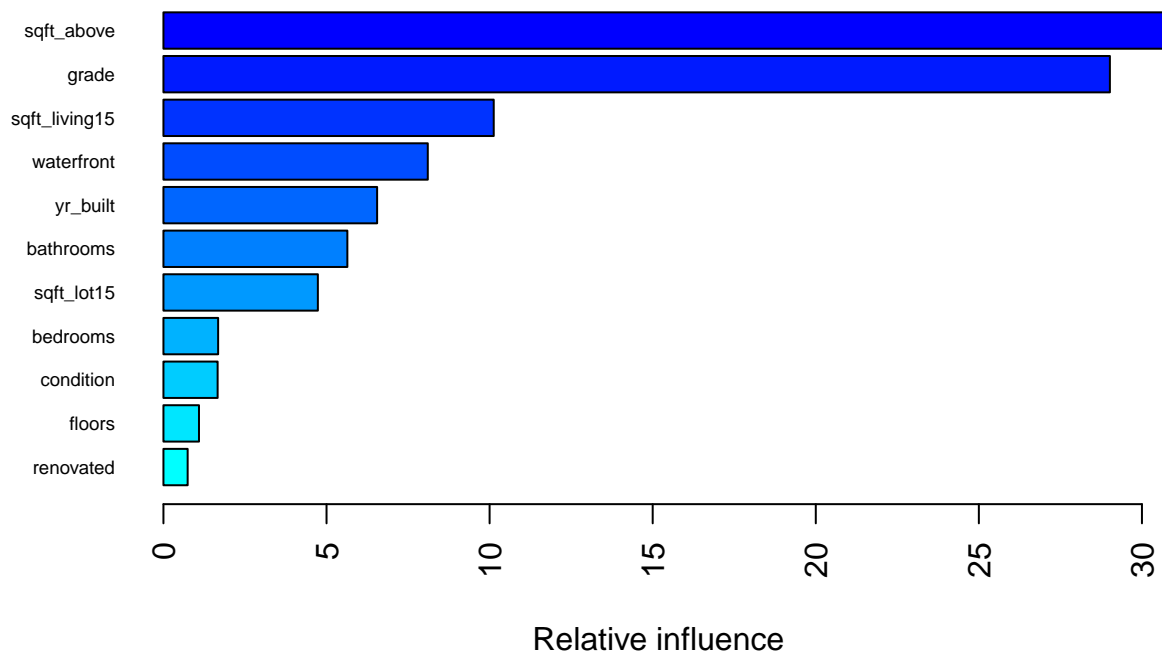
When $p = 4$, minimal node size = 6, we get the lowest RMSE value. The importance is the same as bagging.

```
# boosting
set.seed(1)
gbm.grid = expand.grid(n.trees = c(2000, 3000, 5000),
  interaction.depth = 1:10,
  shrinkage = c(0.001, 0.003, 0.005),
  n.minobsinnode = 1)
gbm.fit = train(price~., housing,
  method = "gbm",
  tuneGrid = gbm.grid,
  trControl = ctrl1,
  verbose = FALSE)

ggplot(gbm.fit, highlight = T) + theme_bw()
```



```
# check variable importance
summary(gbm.fit$finalModel, las = 2, cBars = 19, cex.names = 0.6)
```



```
##           var    rel.inf
## sqft_above sqft_above 30.6566942
## grade      grade 29.0176242
## sqft_living15 sqft_living15 10.1261636
## waterfront  waterfront  8.1046630
## yr_built    yr_built   6.5510861
## bathrooms   bathrooms  5.6391518
## sqft_lot15  sqft_lot15  4.7346052
## bedrooms    bedrooms   1.6765995
## condition   condition   1.6611523
## floors      floors     1.0898455
## renovated   renovated   0.7424147
```

Model comparison

```
# compare cross-validation performance of models
resamp = resamples(list(rf = rf.fit, bagging = bagging.fit, gbm = gbm.fit))
summary(resamp)
```

```
##
## Call:
## summary.resamples(object = resamp)
##
## Models: rf, bagging, gbm
## Number of resamples: 10
##
```

```

## MAE
##           Min.   1st Qu.   Median     Mean   3rd Qu.     Max. NA's
## rf          222586.2 237395.5 246262.8 242687.6 248095.3 257313.1    0
## bagging     219118.1 237240.2 242723.8 243554.4 255106.5 262286.6    0
## gbm         220109.7 225375.2 226562.6 230960.4 233725.3 258841.4    0
##
## RMSE
##           Min.   1st Qu.   Median     Mean   3rd Qu.     Max. NA's
## rf          343088.4 359983.9 379197.1 387286.1 419449.8 428591.3    0
## bagging     354378.5 361057.3 372789.1 386728.9 406661.4 456152.2    0
## gbm         313757.5 332149.8 349160.4 353304.8 364934.6 435422.9    0
##
## Rsquared
##           Min.   1st Qu.   Median     Mean   3rd Qu.     Max. NA's
## rf          0.5633065 0.6299104 0.7297866 0.7109605 0.7768532 0.8403974    0
## bagging     0.5410218 0.6218812 0.7148888 0.7051874 0.7799590 0.8456256    0
## gbm         0.6011863 0.6648199 0.7426753 0.7407741 0.8126325 0.8936769    0

```