Gender_Model.R

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Thu Dec 22 16:26:38 2016

```
# Jingbin - 10 Jan 2016
# Titanic

# Set working directory and import datafiles
train <- read.csv("train.csv")
test <- read.csv("test.csv")

# Install and load required packages for fancy decision tree plotting
library(rpart)
library(rattle)

## Warning: Failed to load RGtk2 dynamic library, attempting to install it.

## Please install GTK+ from http://r.research.att.com/libs/GTK_2.24.17-X11.pkg

## If the package still does not load, please ensure that GTK+ is installed and that it is on your PATH environment variable</pre>
```

IN ANY CASE, RESTART R BEFORE TRYING TO LOAD THE PACKAGE AGAIN

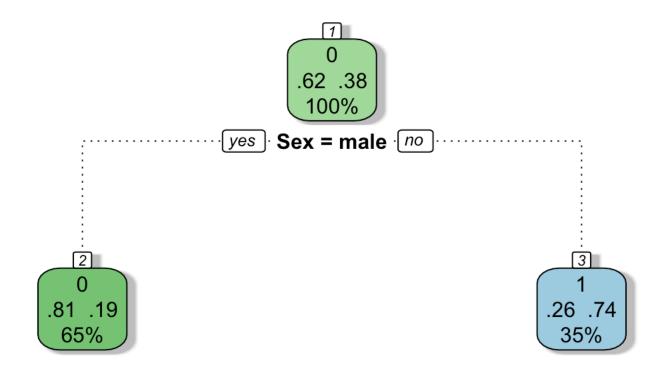
```
## Rattle: A free graphical interface for data mining with R.
## Version 4.1.0 Copyright (c) 2006-2015 Togaware Pty Ltd.
## Type 'rattle()' to shake, rattle, and roll your data.
```

```
library(rpart.plot)
```

Warning: package 'rpart.plot' was built under R version 3.2.5

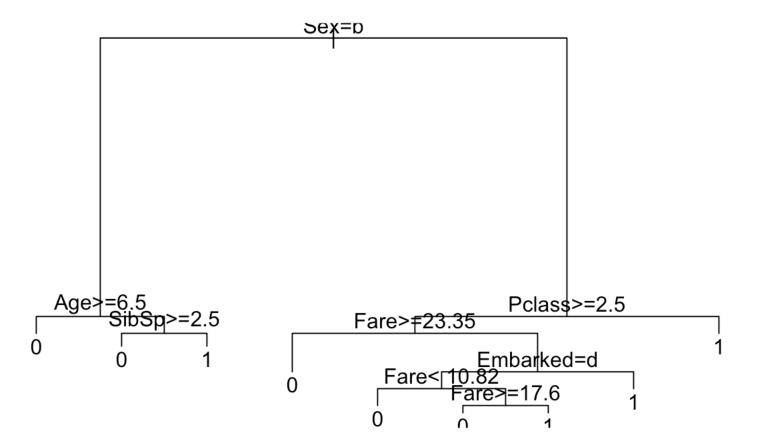
```
library(RColorBrewer)

# Recreate the gender model
fit <- rpart(Survived ~ Sex, data=train, method="class")
fancyRpartPlot(fit)</pre>
```

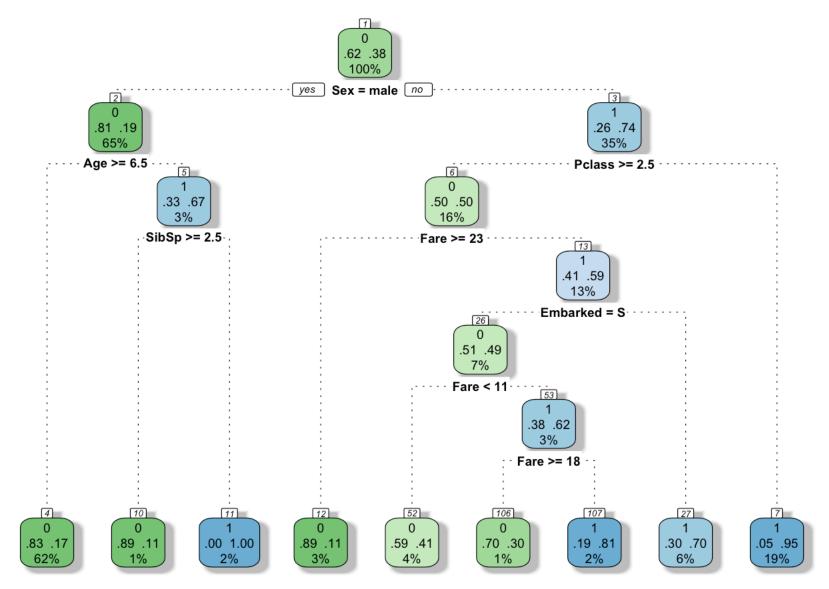


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```
# Build a deeper tree
fit <- rpart(Survived ~ Pclass + Sex + Age + SibSp + Parch + Fare + Embarked, data=tr
ain, method="class")
# Plot it with base-R
plot(fit)
text(fit)</pre>
```

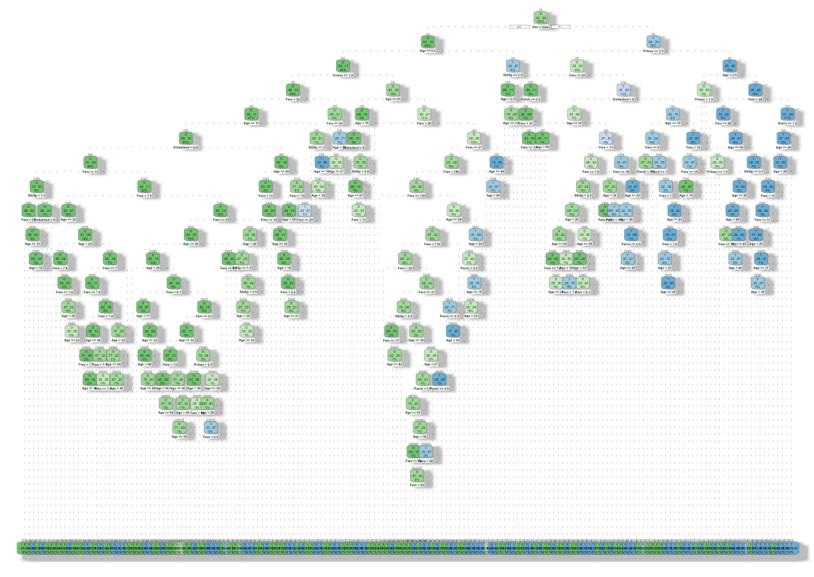


And then make it look better with fancyRpartPlot!
fancyRpartPlot(fit)



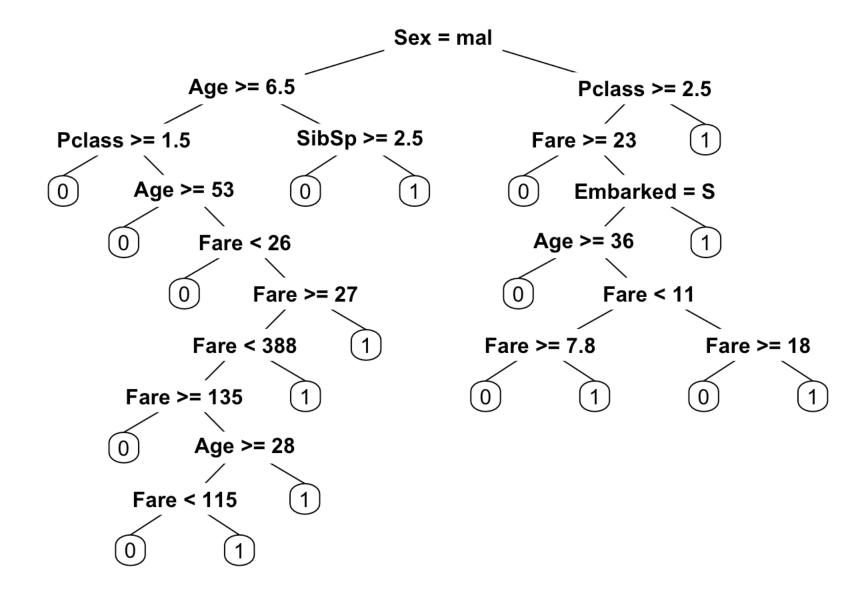
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Warning: labs do not fit even at cex 0.15, there may be some overplotting

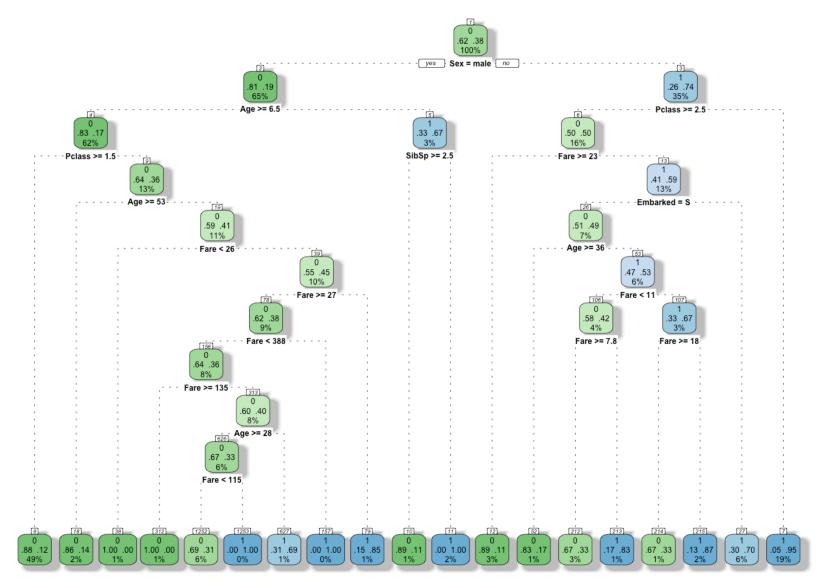


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Warning: ignoring snip=TRUE for quartz_off_screen device



fancyRpartPlot(new.fit)



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