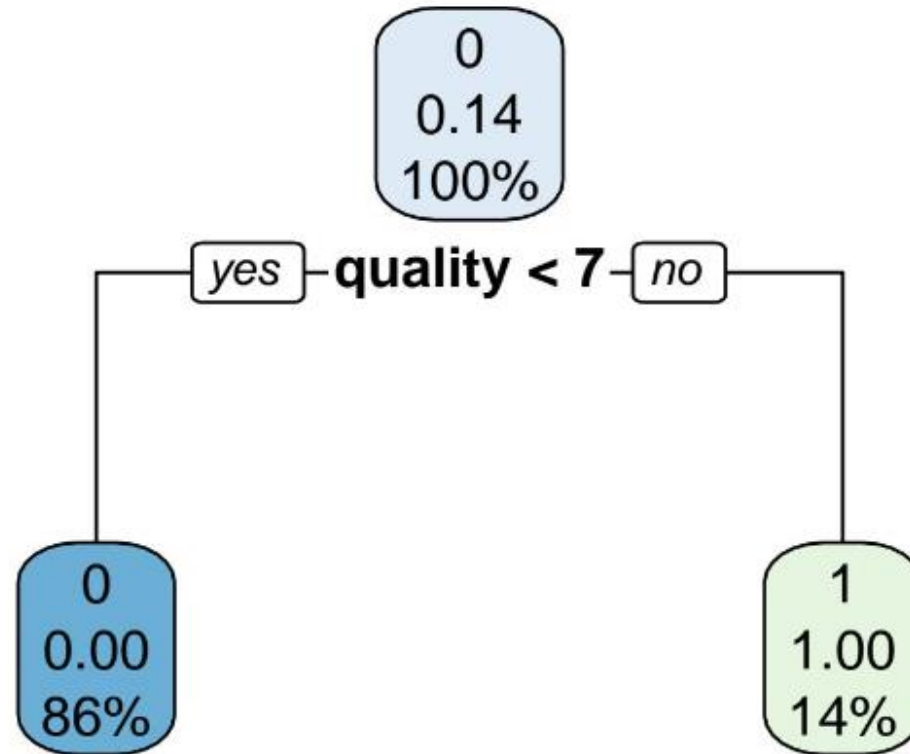


```
# Calculate the accuracy  
test_set_accuracy <- mean(predictions == test_set$quality_binary)  
test_set_accuracy
```

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

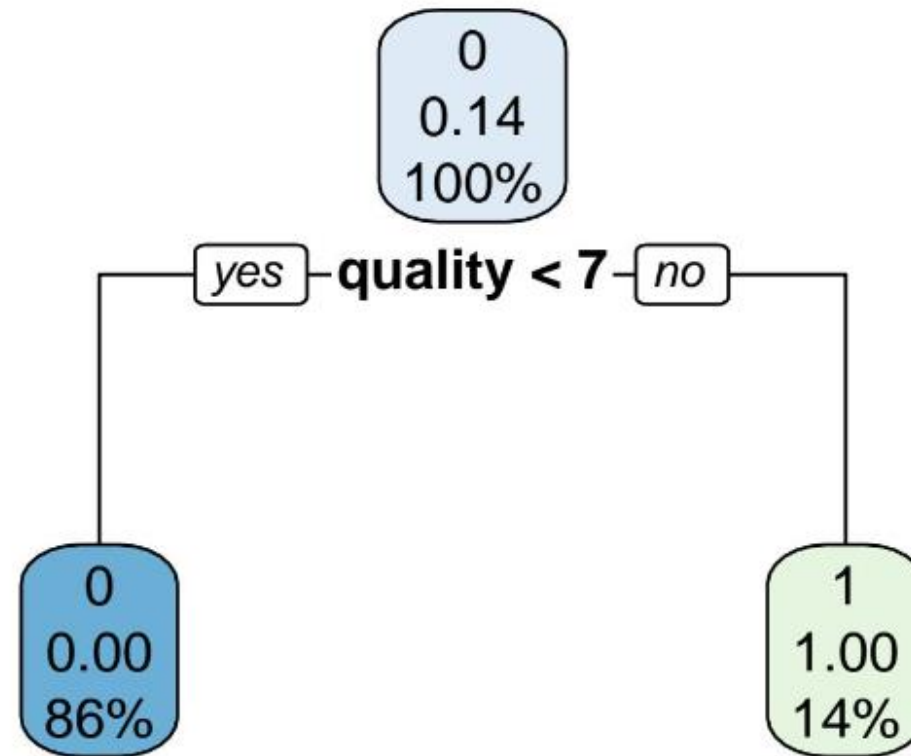
```
# Calculate the accuracy  
test_set_accuracy <- mean(predictions == test_set$quality_binary)  
test_set_accuracy
```

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



```
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test_set_accuracy <- mean(predictions == test_set$quality_binary)  
test_set_accuracy
```

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



```
# Add a new column to the data frame  
wine$quality_binary <- ifelse(wine$quality >= 7, 'good', 'bad')
```

```
wine_tree <- rpart(quality_binary ~ . - quality, data = train_data, method = "class")
```

```
# Split the dataset
```

```
train_indices <- sample(1:nrow(wine), 0.6*nrow(wine))
```

```
train_data <- wine[train_indices,-12] # remove 'quality' variable
```

```
test_data <- wine[-train_indices,-12]
```