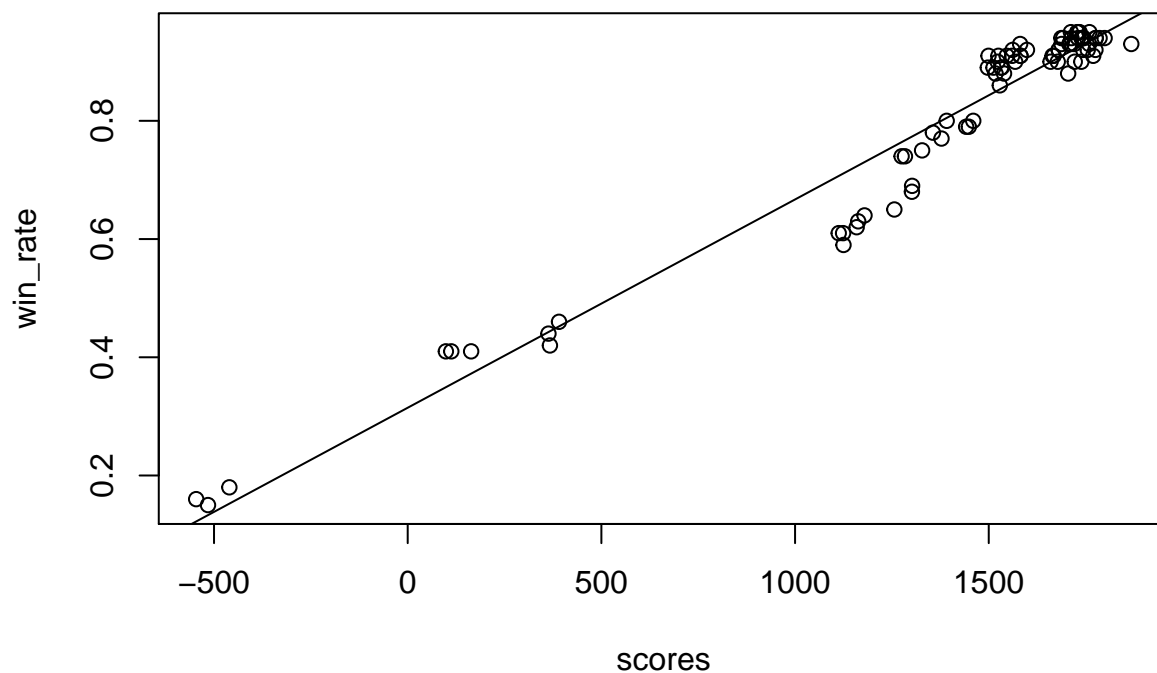


171 Pacman R Analysis

P-values for features

```
## Analysis of Variance Table
##
## Response: win_rate
##           Df Sum Sq Mean Sq F value    Pr(>F)
## method      2  0.26360  0.13180  12.9036 1.558e-05 ***
## Depth       2  0.05100  0.02550   2.4963  0.0893 .
## feature_val  2  2.04254  1.02127  99.9866 < 2.2e-16 ***
## Residuals   74  0.75584  0.01021
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

## Analysis of Variance Table
##
## Response: scores
##           Df Sum Sq Mean Sq F value    Pr(>F)
## method      2 3374180 1687090 16.6296 1.085e-06 ***
## Depth       2 1009522  504761  4.9754  0.00939 **
## feature_val  2 11931508 5965754 58.8043 5.155e-16 ***
## Residuals   74  7507371  101451
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

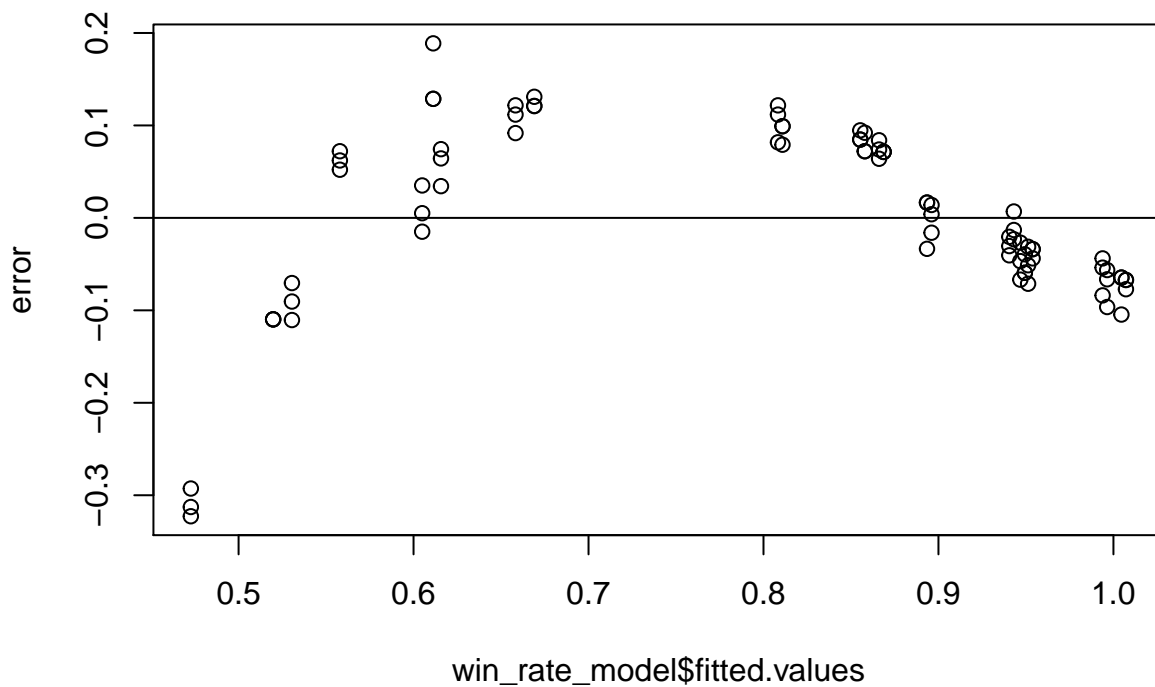


```
##
## Call:
## lm(formula = win_rate ~ scores, data = total)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
```

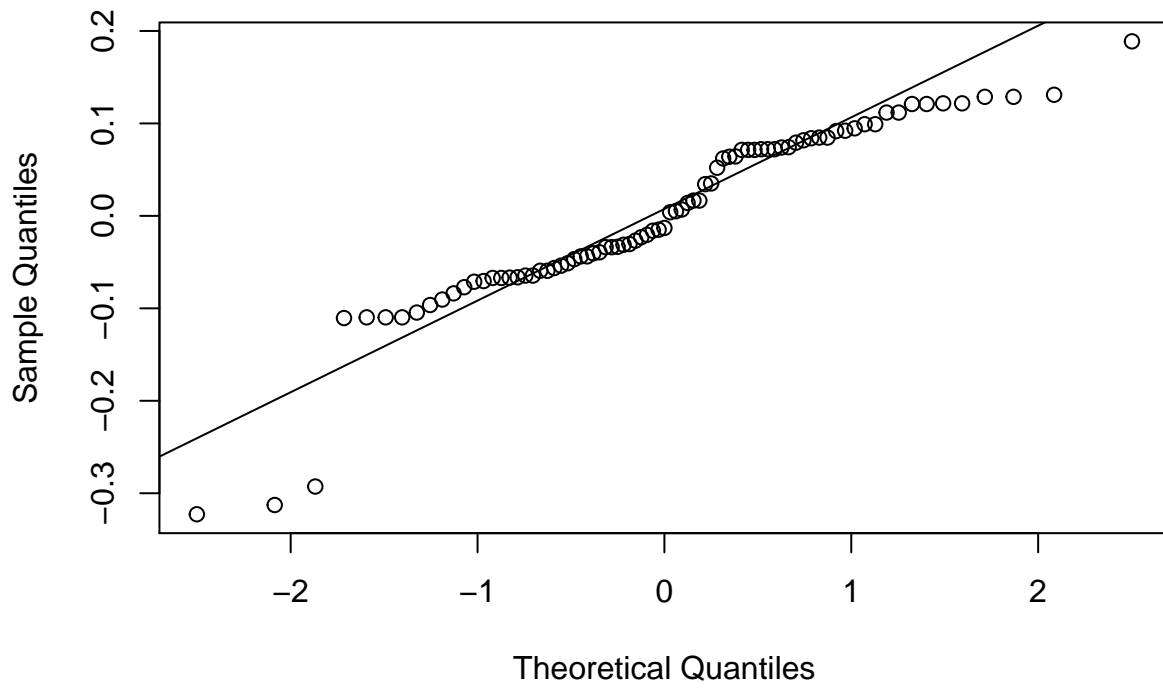
```
## -0.12102 -0.02387 0.01034 0.03081 0.06704
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 3.146e-01 1.362e-02  23.11  <2e-16 ***
## scores      3.523e-04 9.088e-06  38.77  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.04436 on 79 degrees of freedom
## Multiple R-squared:  0.9501, Adjusted R-squared:  0.9494
## F-statistic: 1503 on 1 and 79 DF,  p-value: < 2.2e-16
```

Plots to test Anova assumptions

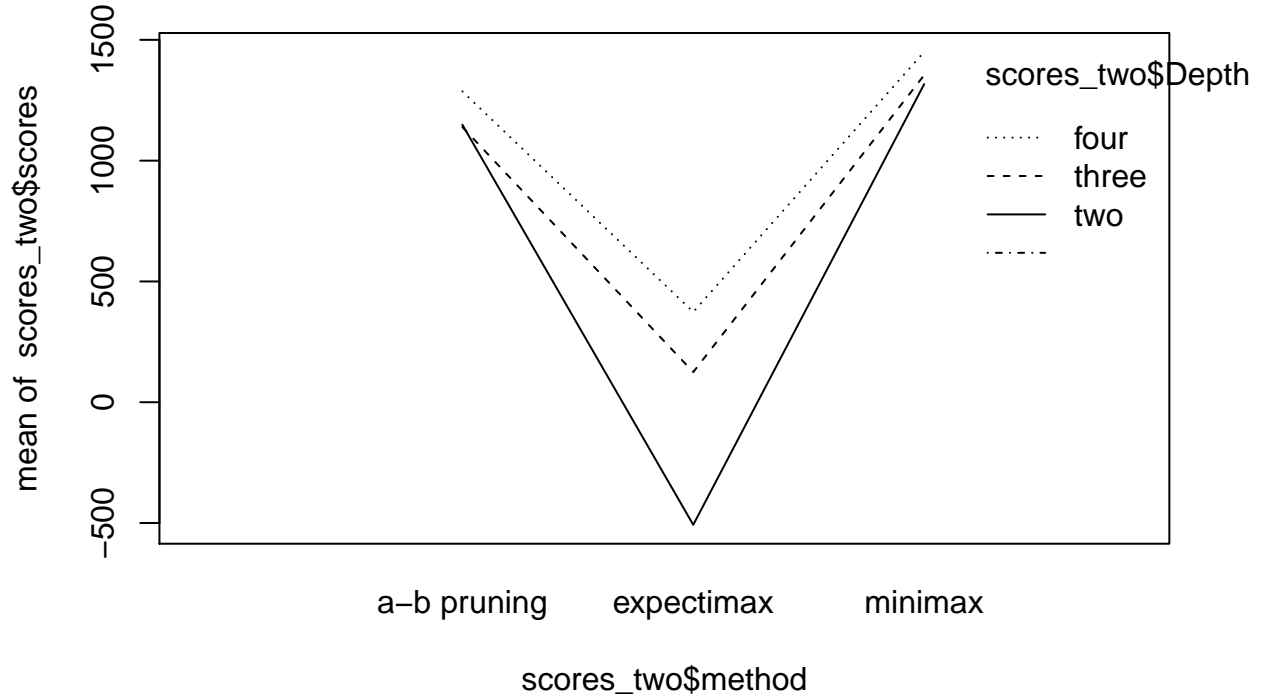
Residuals plotted against the Fitted values



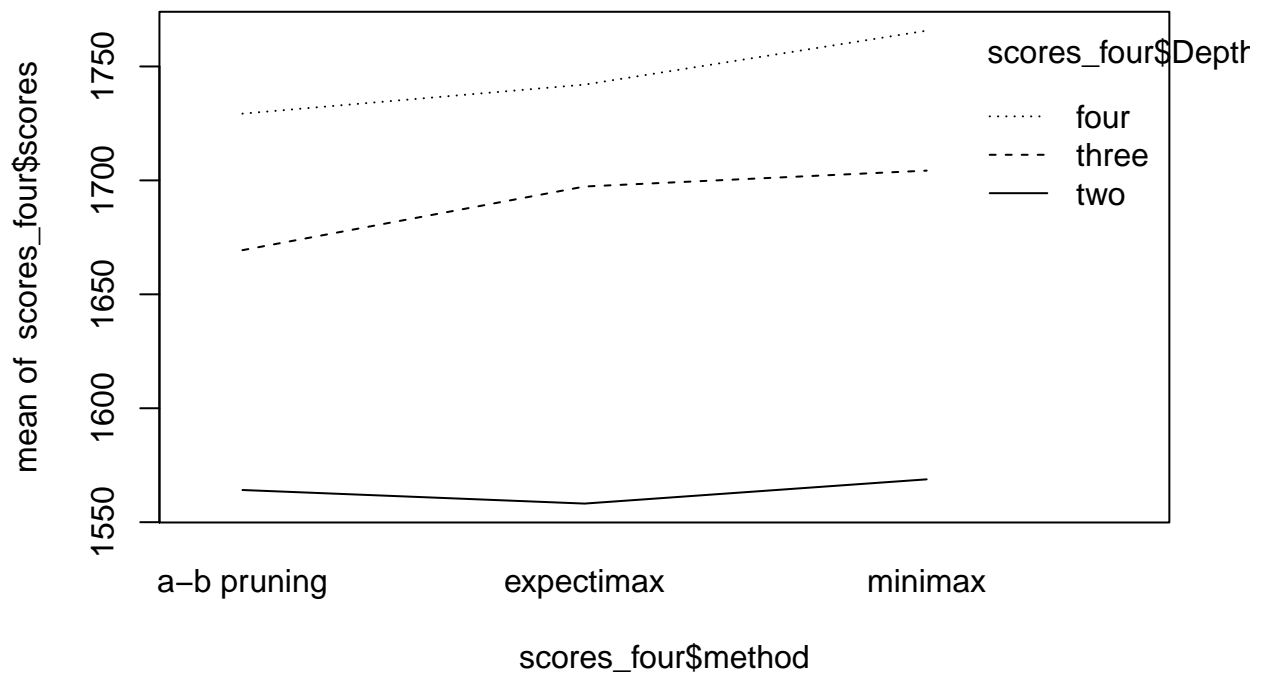
Normal Q-Q Plot



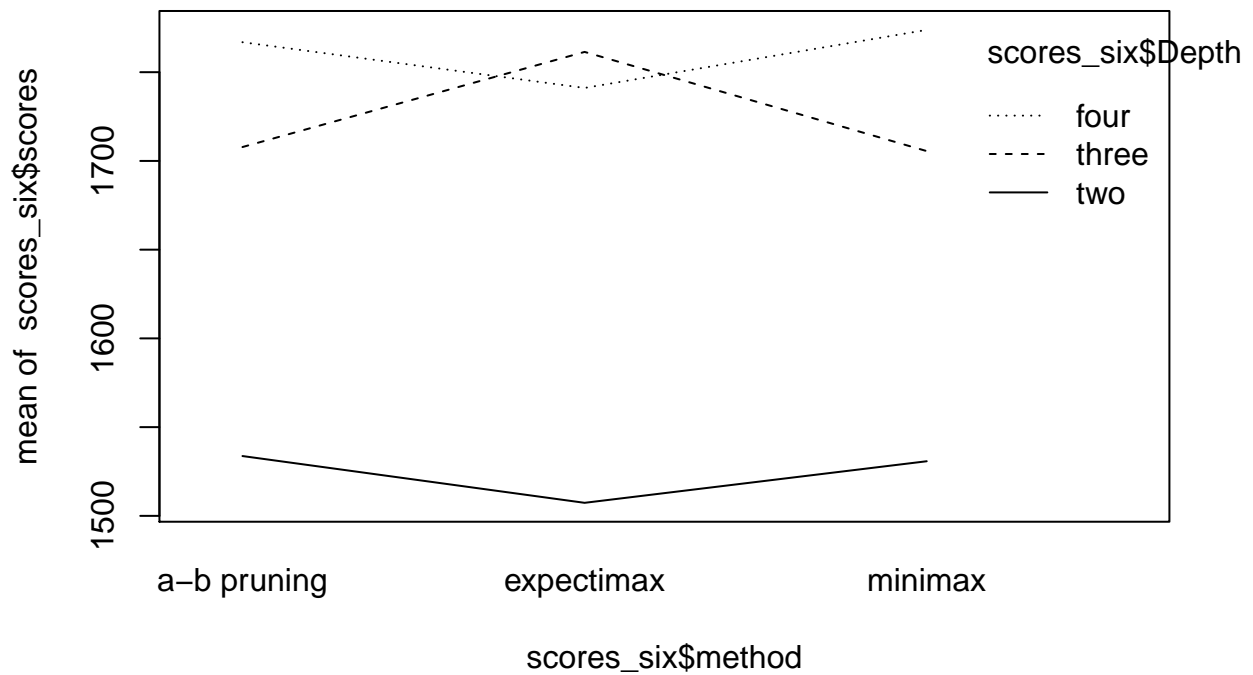
Interaction model of scores when feature_eval is 2



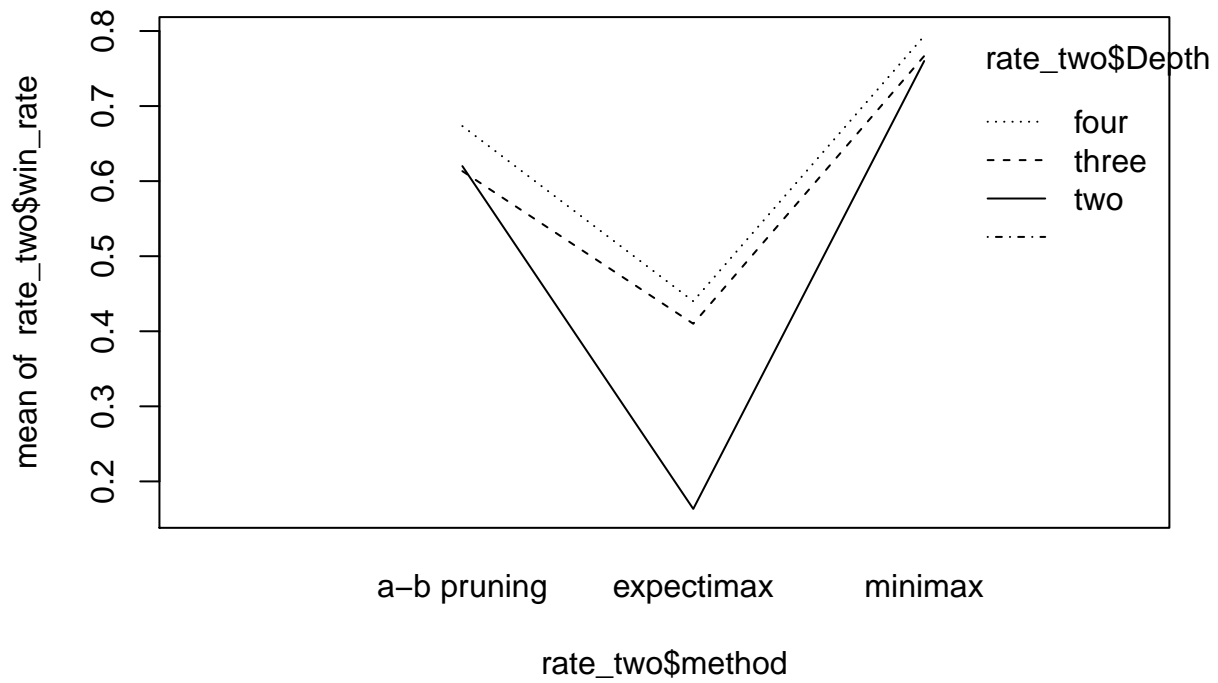
Interaction model of scores when feature_eval is 4



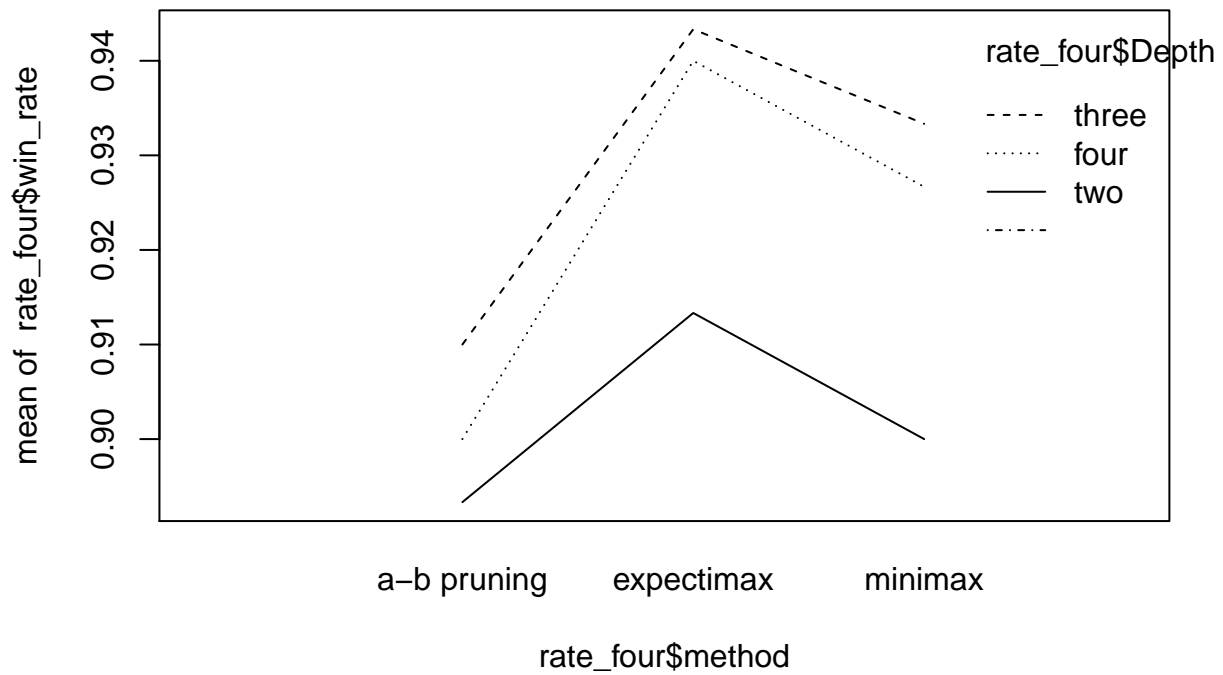
Interaction model of scores when feature_eval is 6



Interaction model of win rate when feature_eval is 2



Interaction model of win rate when feature_eval is 4



Interaction model of win rate when feature_eval is 6

