STATISTICS FOR PLOTS

ANOVA MODEL

Df Sum Sq Mean Sq F value Pr(>F)

pitch 1 141993 141993 2.335 0.129

Residuals 145 8816122 60801

> TukeyHSD(model1)

Tukey multiple comparisons of means

95% family-wise confidence level

Fit: aov(formula = K\_I ~ pitch, data = baseball)

$pitch

diff lwr upr p adj

FS-BB -64.72773 -148.442 18.98655 0.1286427

MODEL 1:

summary(model\_hand)

Call:

lm(formula = a ~ hand\_v, data = baseball)

Residuals:

Min 1Q Median 3Q Max

-6.725 -2.115 -0.595 0.627 33.614

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 9.71428 3.05765 3.177 0.00182 \*\*

hand\_v 0.13157 0.05409 2.433 0.01621 \*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 4.555 on 145 degrees of freedom

Multiple R-squared: 0.03921, Adjusted R-squared: 0.03258

F-statistic: 5.917 on 1 and 145 DF, p-value: 0.01621

MODEL2:

summary(model\_eff)

Call:

lm(formula = efficiency ~ a, data = baseball)

Residuals:

Min 1Q Median 3Q Max

-14.225 -11.066 -10.526 0.944 56.659

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 17.2560 6.1406 2.810 0.00564 \*\*

a -0.3671 0.3468 -1.059 0.29156

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 19.4 on 145 degrees of freedom

Multiple R-squared: 0.007669, Adjusted R-squared: 0.000825

F-statistic: 1.121 on 1 and 145 DF, p-value: 0.2916

MODEL 3:

summary(model\_bend)

Call:

lm(formula = a ~ bend\_v2, data = baseball)

Residuals:

Min 1Q Median 3Q Max

-6.317 -1.996 -0.722 0.614 33.870

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 12.760214 1.263383 10.100 < 2e-16 \*\*\*

bend\_v2 0.009481 0.002643 3.587 0.000457 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 4.454 on 145 degrees of freedom

Multiple R-squared: 0.08149, Adjusted R-squared: 0.07515

F-statistic: 12.86 on 1 and 145 DF, p-value: 0.0004571

MODEL 4:

summary(model\_stride)

Call:

lm(formula = stride ~ a, data = baseball)

Residuals:

Min 1Q Median 3Q Max

-0.167199 -0.036690 0.004272 0.043155 0.093786

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 0.8704179 0.0160454 54.247 <2e-16 \*\*\*

a 0.0003735 0.0009061 0.412 0.681

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.0507 on 145 degrees of freedom

Multiple R-squared: 0.00117, Adjusted R-squared: -0.005718

F-statistic: 0.1699 on 1 and 145 DF, p-value: 0.6808