

§13.2f – Regression with MLB data

Use the appropriate SRiS applet to...

1. Construct a scatterplot of Wins (response variable) and Run Differential (explanatory variable).
2. Describe the association shown in your scatterplot (four sentences).
3. Find the correlation coefficient (r).
4. Find the Least Squares Regression Line (LSRL).
5. Interpret the slope of the LSRL.
6. Interpret the intercept of the LSRL.
7. Is the intercept of the LSRL reasonable?
8. Select one team.
9. Predict your team's Win total using your LRLS and their Run Differential.
10. Use your result from #9 to calculate your team's residual.
11. Construct a residual plot for the data.
12. Does the residual plot suggest that a linear model is appropriate for this data?