Basic Analysis

Summary

Use this guide to:

- Uncover relationships among variables with the Fit Y by X platform.

As an example, open the Restaurant Tips sample data table (Get Started > Explore Relationships > Sample Data).

Fit Y by X platform looks at relationships among pairs of variables. To explore relationships using Fit Y by X:

1. Access the platform using Analyze > Fit Y by X.

2. For sample data Restaurant Tips, drag "Bill Amount" to Y, Response and drag "Number of Guests" to X, Factor. Click OK. JMP displays a scatterplot of Bill Amount and Number of Guests. No analysis is provided yet since many types of analysis are possible.

3. Click the red triangle to see available analyses. For example, select Fit Line to see the linear fit and all statistical details, along with the fitted line in the scatterplot.

4. To see a different relationship, go back to Analyze > Fit Y by X and drag "Bill Amount" to Y, Response and "Day of Week" (a categorical variable) to X, Factor. Click OK.

5. JMP displays a scatterplot of Bill Amount and Day of Week, but because "Day of Week" is a qualitative X factor, the red triangle provides different analysis options that make sense for categorical variables. For example, to explore Analysis of Variance, select Means/Anova, and JMP will compute one-way analysis of variance.

   Note: The red triangle menu presents analysis options that work for the variables selected. In the example in Steps 4 and 5, you can add quantiles and basic summary statistics to see correlation, covariance, mean and standard deviation for the variables.