Bootstrapping

This guide provides instructions on the bootstrapping technique – a resampling method for estimating the sampling distribution of a statistic as a means to generate a confidence interval. Bootstrapping is available from many JMP reports.

Big Class.jmp (Help > Sample Data Folder)
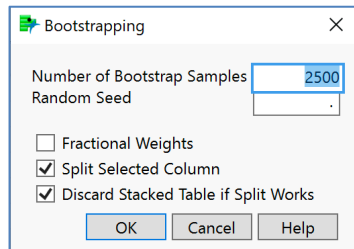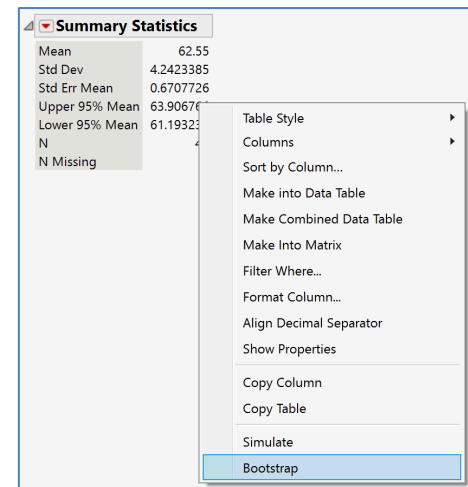
Bootstrapping in JMP Report Windows

1. From an analysis platform report window, **right-click** on the report of interest and select **Bootstrap**.

    In this example we use the Distribution platform and bootstrap the statistics in the Summary Statistics report for the continuous variable 'Height'.

2. In the Bootstrapping window (below, left), enter the desired number of bootstrapped samples and click **OK**.

    JMP creates a data table (below, right) with statistics for the original sample (excluded) and each of the bootstrap samples. The BootID• column identifies the bootstrap sample number.

3. Use the **Distribution** platform to explore the statistics of interest for the bootstrap samples. Bootstrap percentile confidence intervals for different confidence levels are provided.

    Hint: Click on the green triangle next to **Distribution** in the top left panel of the Bootstrap Results data table to launch the Distribution platform for all bootstrapped estimates.

Note: The Summary Statistics table was customized (under the Red Triangle) to only display the Mean, Std Dev, and N.
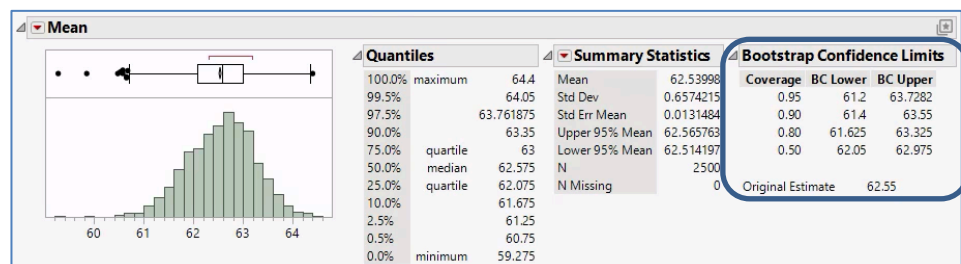
Visit **Basic Analysis > Bootstrapping** in **JMP Help** to learn more.