**Comparison of Bootstrapped and Expected OTU Estimates**

Sample  Bootstrapped OTUs  Expected OTUs

A table with numbers and text

Description automatically generated

Differences between Bootstrapped OTUs and Expected OTUs:

|  |  |
| --- | --- |
| Sample | Difference |
| A | -0.01 |
| B | -0.22 |
| C | -0.18 |
| D | 0.00 |
| E | -0.04 |

Statistics of Differences:

Mean Difference: -0.09

Median Difference: -0.04

Standard Deviation of Difference: 0.11

The bootstrapped OTU estimates are very close to the expected OTU values, with minimal differences. This suggests that the bootstrapping method is a reliable estimator for the number of OTUs in each sample. The differences are minor, indicating that the random sampling approach produces results consistent with theoretical expectations.

A comparison of a box plot

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