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- 1. Decide whether you want to test questions of mass / volume, or of frequency. IMO most questions in environmental science are of frequencies.
- 2. If interested in mass/volume/means use a permutation, not a parametric, test.
- 3. If interested in frequency questions use a nonparametric test.
- 4. Don't rely on parametric tests like t-tests and ANOVA. They have a considerable loss in power (producing false negatives, missing trends or higher concentrations) with skewed, unequal variance data such as most environmental datasets. Instead use permutation tests.

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