Exp A: Winter 2014 field experiment varying cages, sediment nutrients, water column nutrients

Three fixed factors, each with two levels (Y/N)

* Cages (C)
* Sediment nutrients (S)
* Water column nutrients (W)

Three way ANOVA?

* Assumptions
  + Samples are iid yes, exp designed to be iid
  + Data is normally distributed
    - Test error ~ normal no, residual QQ and histograms
  + Equal variances yes, with 1/x transformation
  + Balanced design no-ish, n = 6 and not 8 for one trt

Hypothesis testing

H0

* No treatment effect of C
* No treatment effect of S
* No treatment effect of W
* No interaction effect of (CS)
* No interaction effect of (CW)
* No interaction effect of (SW)
* No interaction effect of (CSW)
* No error effect

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* Yes effect (respectively)

If no ANOVA, use GLM