STATS 205: Homework Assignment 5

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6/10/2019

Solution to Problem 1

> We say that two observations X_1 and X_2 are *independent* of one another with respect to a collection of events $\mathcal{A} \backslash \lceil \nabla \rceil \dashv \int$ if
>
> $$PrX_i$$
>
> In deciding whether your own observations are exchangeable and a permutation test applicable, the key question is the one we posed in the very first chapter: Under the null hypothesis of no differences among the various experimental or survey groups, can we exchange the labels on the observations without significantly affecting the results?

– 2.2.2 Exchangeable Observations; Permutation, Parametric, and Bootstrap Tests of Hypotheses; Good, Phillip I