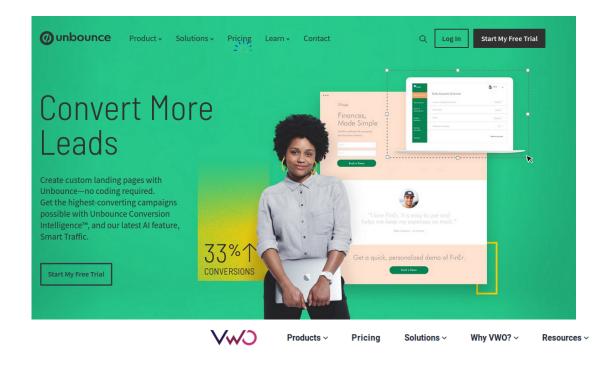
Foundations of Data Science: A/B testing -The principle of A /B testing

A/B Testing





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Boot strap for AlB Learning

n=1000

Show A & B

NA = 700 # d'ick-throughs on A

 $n_{B} = 720$

"

PA - 2 parameter for proportion of click-throughs from A/B

PB -) parameter for difference.

d = PA - PB

 $\hat{p}_A = n_A$ $\hat{p}_B = n_B$

 $\hat{d} = \hat{\rho}_A - \hat{\rho}_B$

Bootstrup (ctd)

B - # Bootstrap repetitions

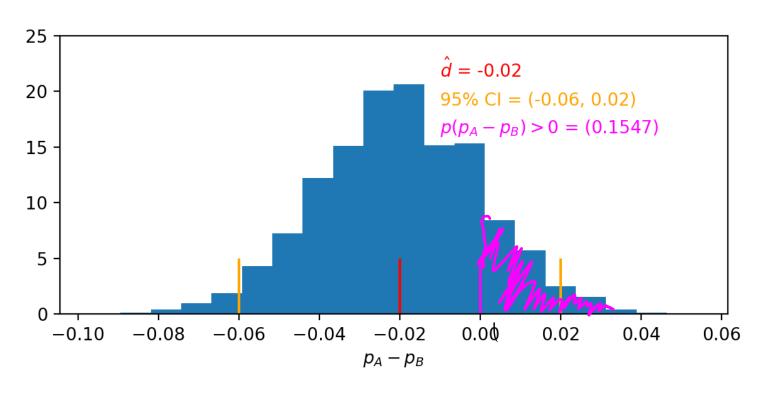
for j in 1, ..., B =

- Sample no from Binom (n, p)
- " $n \not = " Binom (n, \hat{p}_B)$
- Compute difference and store it.

$$d^{K}_{j} = \frac{n^{K}}{n} - \frac{n^{K}}{n}$$

Compute quantiles, std error in estimator.

Bootstrup results



$$\hat{d} = \hat{\rho}_{A} - \hat{\rho}_{B} = 0.70 - 0.72 = -0.02$$
15% chana A is better than B