Bootstrap (the basics)
- Use it to get confidence intervals wide variety of estimators.
for a very - Un de , the bootstrap assumption!
(sampling across sumples)
- Let B (usually in the hondreds or thousands) be the number of bootstrap replicates.
- If our original sample er (xi, yi) i=1 Then, for each bootstrap replicate we'll have
(xf(b)) JEI
A of brotship for b = (, , , , b)
and [5]3 (b) is a sequence of indices which are sampled with replacement from I.
Example. me have data sample

$$(X_1, Y_1), (X_2, Y_2), (X_3, Y_3),$$
 $(X_1, Y_1), (X_2, Y_2), (X_3, Y_3),$
 $(X_1, Y_2), (X_2, Y_3), (X_2, Y_3),$
 $(X_1, Y_2), (X_2, Y_3),$
 $($

For each b, compose \$\frac{1}{300} = \frac{1}{300} \text{\texts} \text{\texts} \\

\text{Using our sources estimator. Then, save \$\frac{1}{300}\$ \\

and \$\frac{1}{3}(6)\$

We end up with table ... For each observation

Further, you can compute an estimate of standard error Cobservation - specific)

Average a crow

bootship replicate



