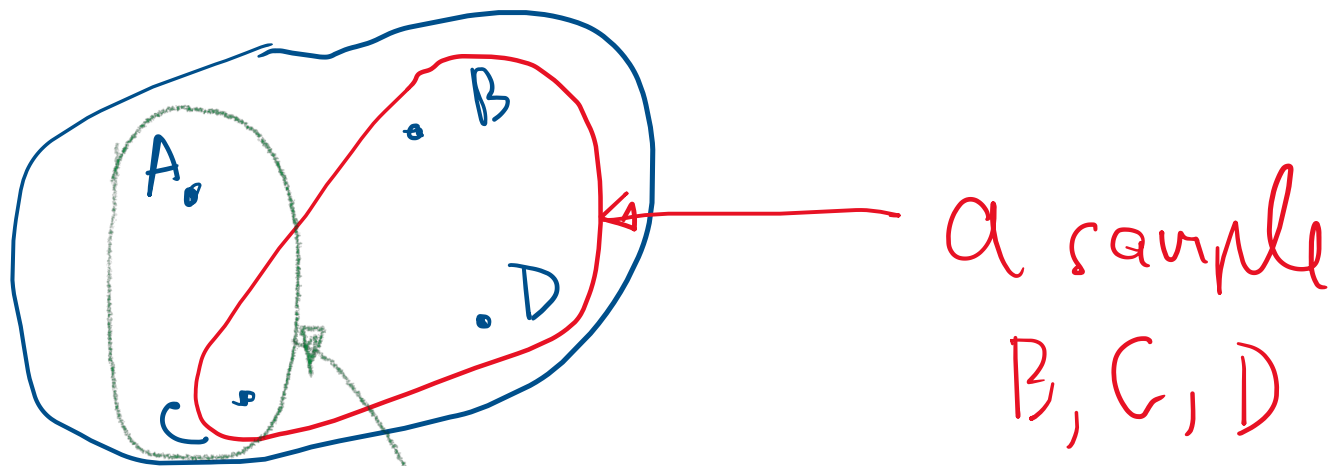


all students in  
STATS 2141 A

This is "my" population  
or, in other words,  
"my" sample space

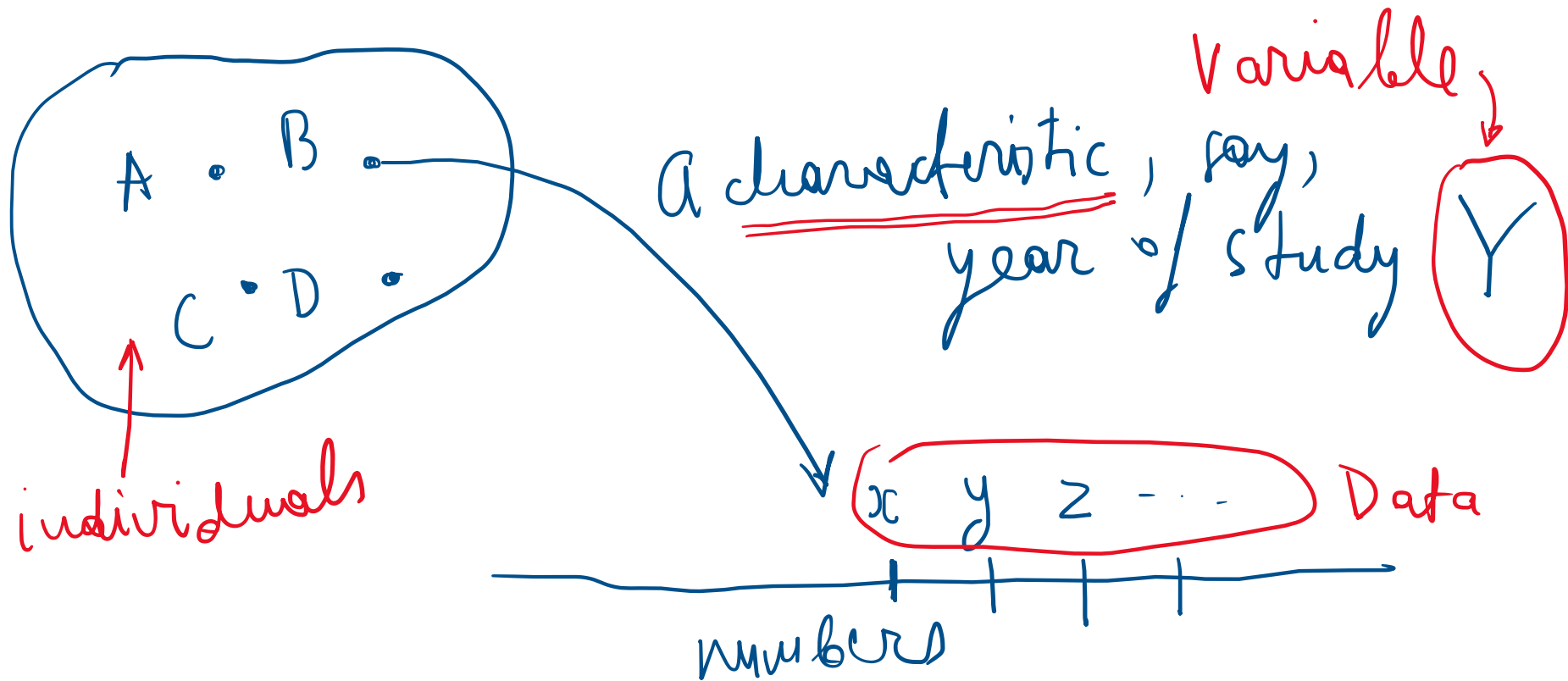
A, B, C, D, ...  
350 in total



a sample  
B, C, D

another sample

A, C



$$Y(\text{Anne}) = x, \text{ say } 2$$

$$Y(\text{Benry}) = y, \text{ say } 3$$

$$\dots$$

$$Y(\text{Cindy}) = z, \text{ say } 4$$

$$Y(\text{Danny}) = \text{say } 3$$

$Y$  is a characteristic (say, year of study)

$A, B, C, D, \dots$  individuals

Where are data???

Here:

$$Y(\text{Anne}) = 2$$

$$Y(\text{Becky}) = 3$$

$$Y(\text{Cindy}) = 4$$

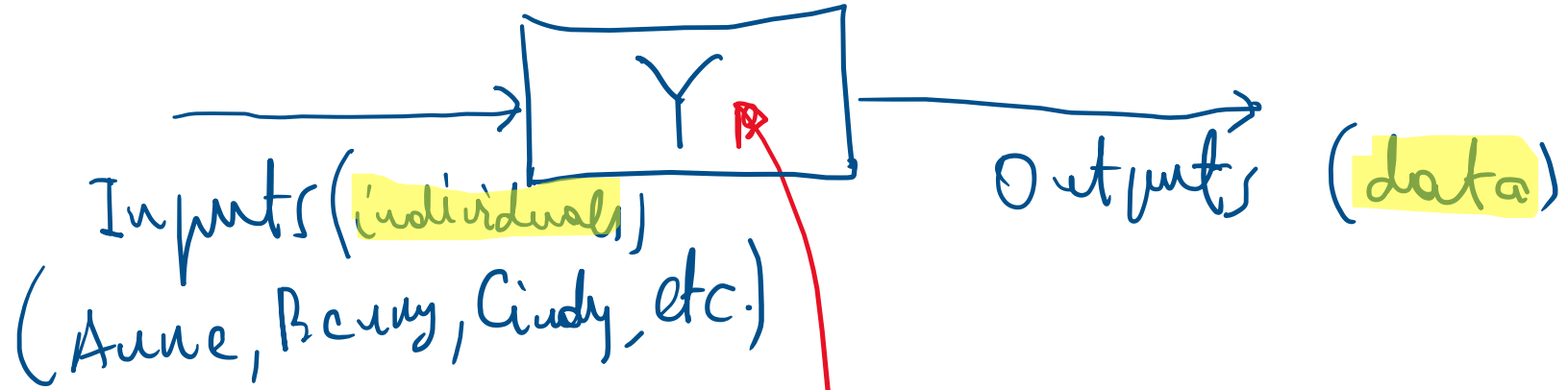
$$Y(\text{Danny}) = 3$$

variable individual data

Note that "variable" does not change.

What changes are individuals and thus data points.

# Engineering Terminology



Variable  
Transfer function  
"Black box"