

There are 3 types of Variables

- 1. Independent Variable
- 2. Dependent Variable
- 3. Control Variable

1. Independent Variable

The "cause" variable. In an experiment you control this variable by choosing the values for it. It's what YOU do to change the experiment.

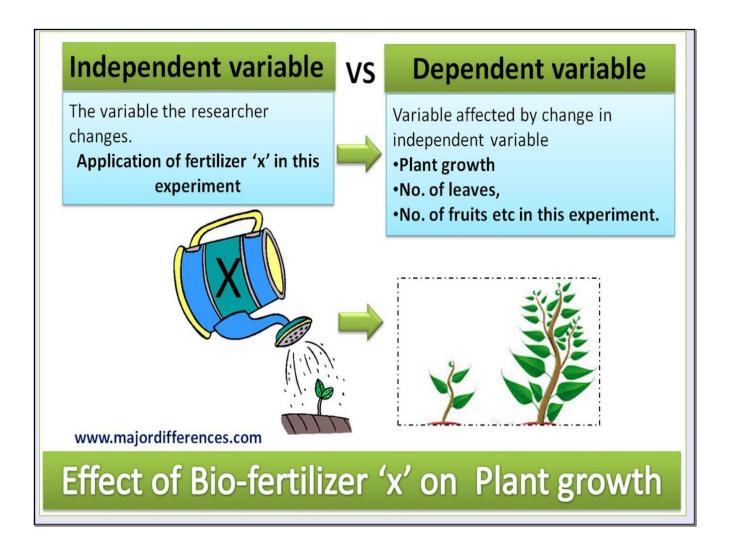
2. Dependent Variable

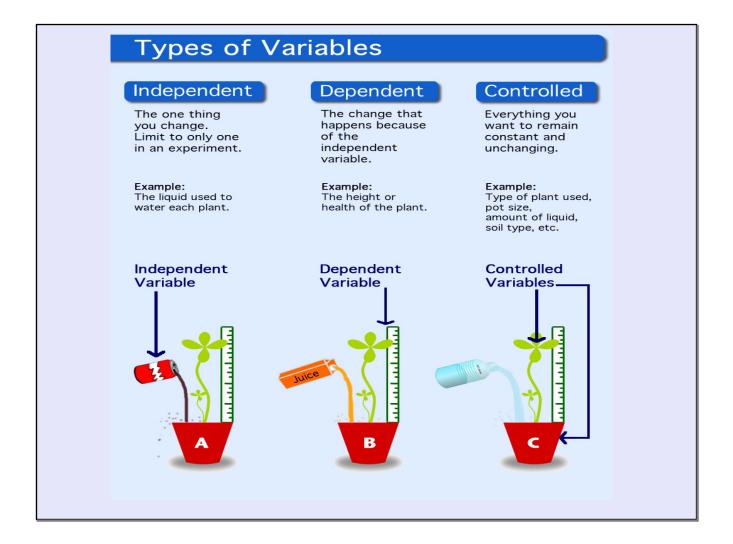
The "effect" variable. This is the variable being studied or measured. This variable responds to the changes made to the independent variable. It literally DEPENDS on how you changed the independent variable.

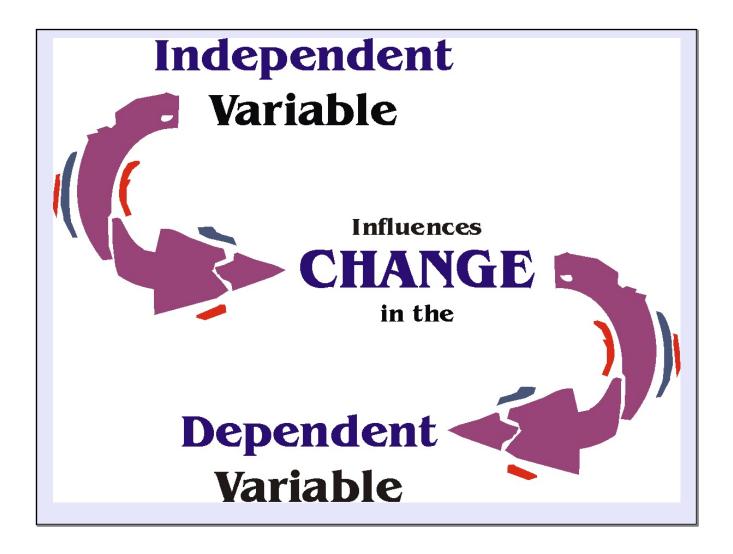
3. Control Variable

These are all the other variables that must be kept identical (controlled) so they DON'T affect the dependent variable.

Don't worry. There will be examples...







Example 1: I am planning an experiment to see if the type of shoe I wear makes a difference in my time overall mile-time.

Independent Variable:

Dependent Variable:

Control Variable(s):

Example 2: I am planning an experiment to see if the amount of air in a basketball affects the numbers of free-throws I make.

Independent Variable:

Dependent Variable:

Control Variable(s):

Example 3: I am planning an experiment to see if the type of music I am listening to helps with my overall concentration.

Independent Variable:

Dependent Variable:

Control Variable(s):