Type I and II Error

Null and Alternate Hypothesis?

Hypothesis = Assumption

Drinking Sugary drinks daily Leads to being Overweight

Null Hypothesis

- there is no statistical significance difference between the two variables in the hypothesis.
- Example: There is no statistically significant relationship between the type of water I feed the flowers and growth of the flowers.
- often represented by H0 (H-zero)

Alternate Hypothesis

- A statistical hypothesis used in hypothesis testing, which states that there is a significant difference between the set of variables.
- denoted by H1 (H-one)

	H ₀ is actually:		
	True	False	nce
Reject Ho	Type I error	Correct	
Accept H ₀	Correct	Type II error	

Example

tested for COVID-19 based on mild symptoms.

There are two errors that could potentially occur:

- The test result says you have coronavirus, but you actually don't:
 Type I error (false positive)
- Denoted by alpha (α),
- The test result says you don't have coronavirus, but you actually do:
 Type II error (false negative)
- Denoted by beta (β)