

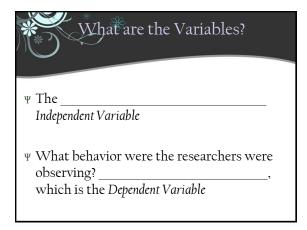
Step 3- Research Design		
Ψ		
Ψ	What type of study would best test your hypothesis?	
Ψ	What participants will you use?	
Ψ	What will be the procedure of your study?	
ı		

*** Experimental Method	
Ψ This is the	
Ψ A study in which the investigator e measuring at least one other <u>variable.</u>	_ _whil





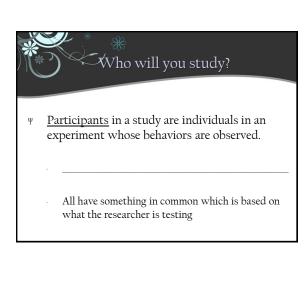




ØK, Last One...

 Ψ An industrial/organizational psychologist tests to see if wearing name tags makes employees happier with their work

What are the variables?	
Ψ are the Independent Variable	
Ψ And the observed behavior was	
which is the Dependent Variable	_,



Participants are randomly assigned to one of two groups:

1. The Control Group-

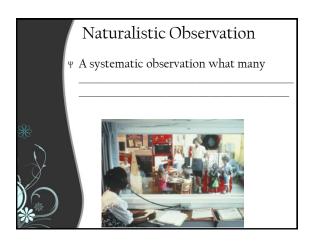
- This group does not receive the independent variable
- It does not receive the treatment

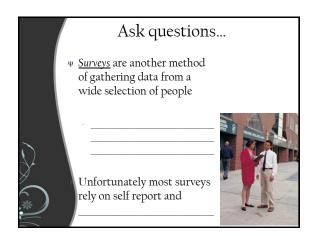
2. The Experimental Group-

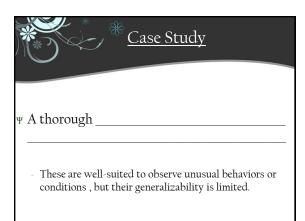
This group "receives" the independent variable

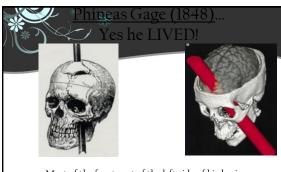






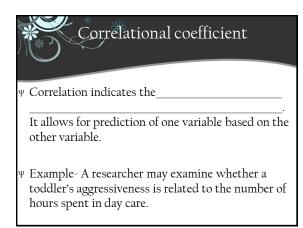






Most of the front part of the left side of his brain was destroyed. Afterwards he experienced serious personality changes and his friends reported that he was "no longer Phineas."

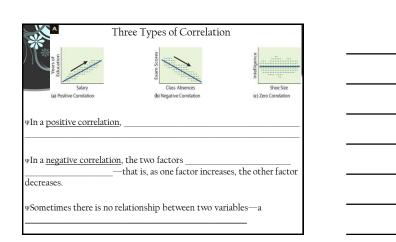
Correlational Studies
Ψ A procedure in which investigators measure the
Without manipulating or controlling either of them
Ψ <u>Correlation</u> : A measure of the



The strength of the relationship is measured by a correlation coefficient which ranges from _____

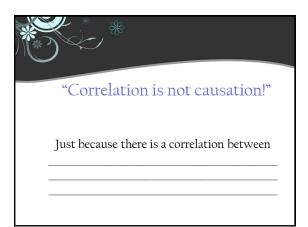
- +1: perfect positive correlation (perfect relationship)

 0: no correlation (no relationship)
- -1: perfect negative correlation (perfect relationship)



Name that Correlation!

- Ψ As a child's age increases so does her height
- $\ensuremath{\Psi}$ The more time a person spends on a treadmill the less they weigh
- $\,\Psi\,$ The amount of time a college student studies and their height in inches





What happens after the study is completed and the data is examined?

It is time to draw a conclusion $\hbox{``Was I right?''}$

Was my prediction correct?

- Researchers draw conclusions about the results of the study. Did the information <u>support</u> or <u>oppose</u> their hypothesis?
- Don't forget...this information MUST be replicated to be accepted as valid.

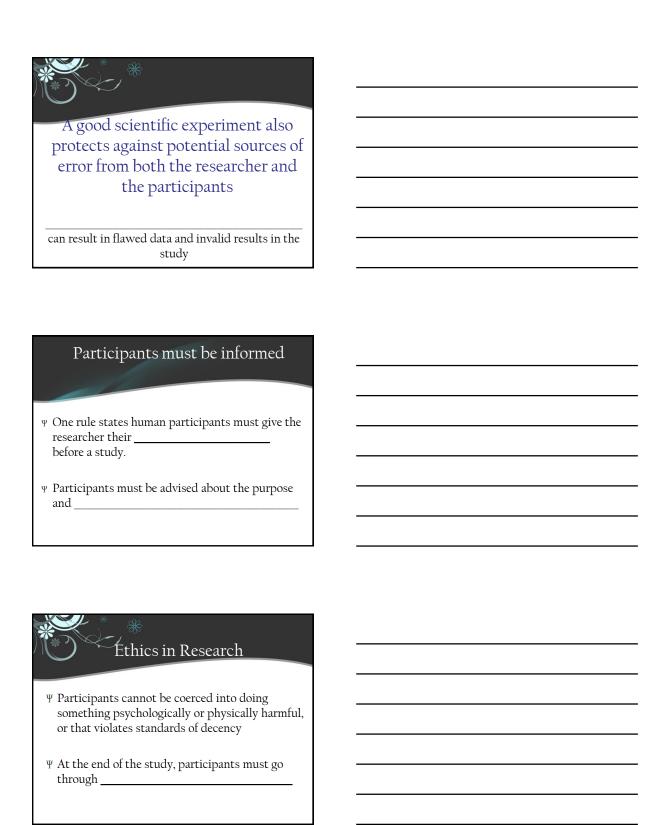
What happens to the information yielded in study?

- Ψ If the information produced in a study supports the original hypothesis it is published in the scientific community in peer-reviewed journals.
- Ψ This information is what we read about in textbooks and articles.



Ethics in Research

Could the results of a study be BIASED?



Why do researchers have these rules?

- Ψ History of controversial psychological experiments that would now be considered <u>UNETHICAL</u>.
- Ψ <u>Examples:</u>
 - Phillip Zimbardo- The Stanford Prison Study
 - Stanley Milgram The Perils of Obedience



- Ψ Biopsychology
 - How is the nervous system organized?
 - How do "brain chemicals" influence our behavior?