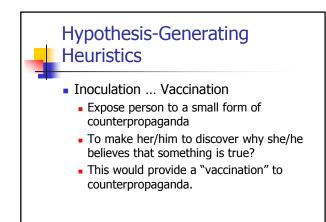
- Intensive case study
- Paradoxical incidents
- Analogies and metaphors
- Conflicting results
- Improve old ideas
- Serendipity
- Varied replication

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Hypothesis-Generating Heuristics

- Analogical Thinking
 - Using analogy to explain phenomena
 - E.g. Resistance to propaganda is similar to inoculation
 - Cultural truisms:
 - "Mental illness is not contagious"
 - "It's good to brush your teeth after every meal"
 - "Smoking is bad for your health"
 - These ideas are vulnerable to counterpropaganda



Hypothesis-Generating Heuristics

- Develop a hypothesis for the idea of inoculation to counterpropaganda
- How to devise an experiment to measure it?

Hypothesis-Generating Heuristics

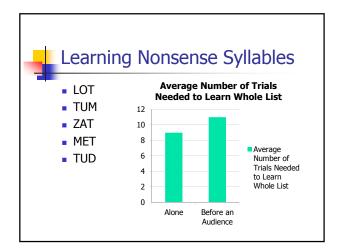
- Intensive case study
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- Varied replication

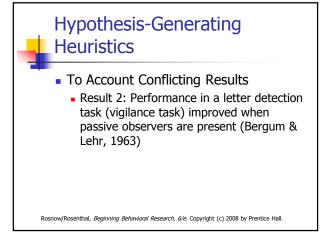
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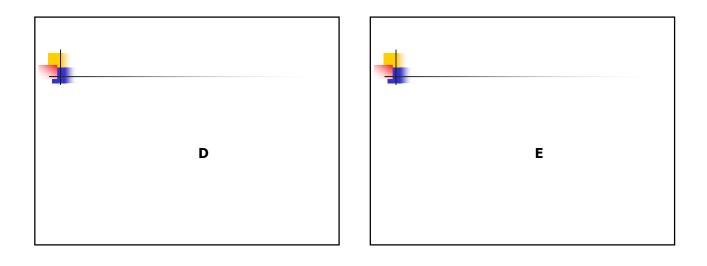
Hypothesis-Generating Heuristics

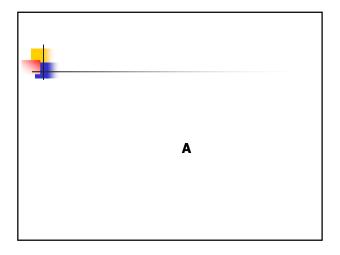
- To Account Conflicting Results
 - Result 1: Performance in humans is poorer when passive observers are present (Pessin, 1933)

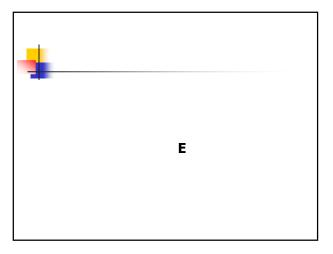
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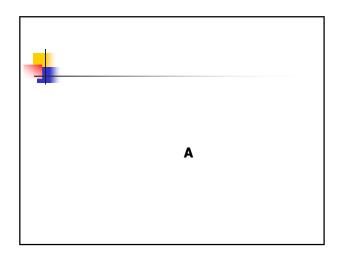


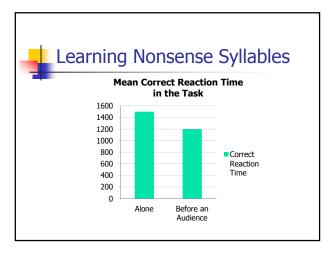


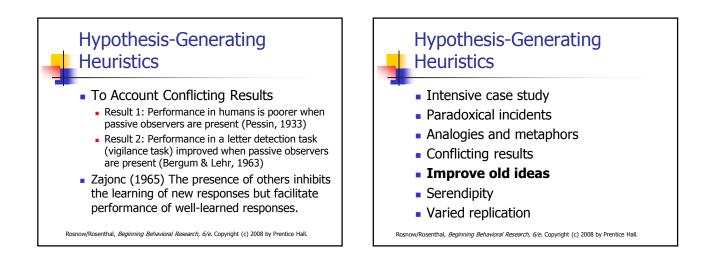












Improving older ideas

- Bem's self-perception theory
 - Previous theory: attitudes shape behavior
 - New theory: behavior shapes attitudes

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Hypothesis-Generating Heuristics

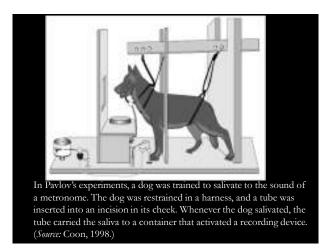
Improving older ideas

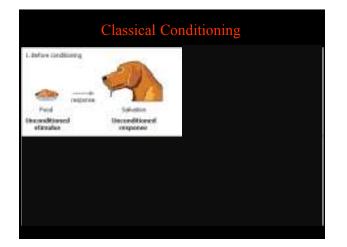
- Skinner's operant conditioning
 - Previous theory: classical conditioning and "trial and error learning"
 - New theory: instrumental conditioning "response and reinforcement"

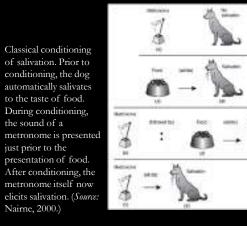
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Old Idea: Classical Conditioning

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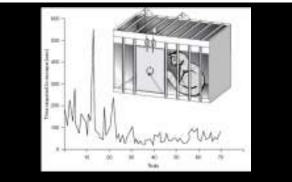




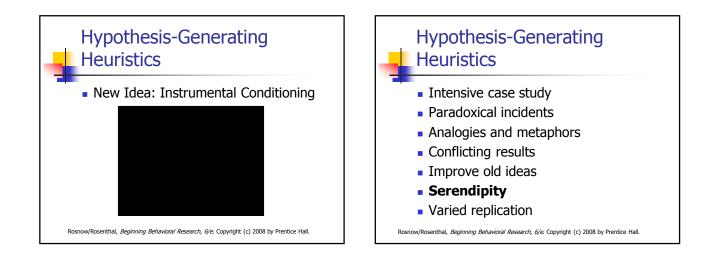


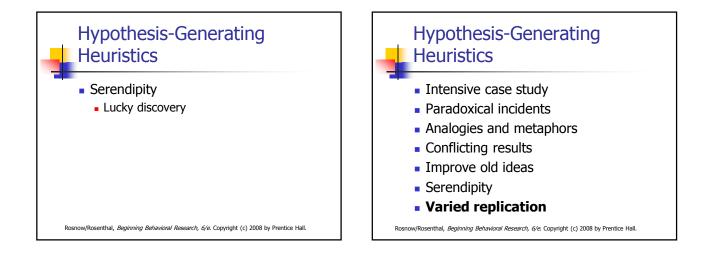
Hypothesis-Generating Heuristics

Old Idea: Trial and Error Learning



Thornalide's puzzle box. In a typical experiment, a hungry cat was enclosed in a puzzle box and a dish of food was placed outside the box. To reach the food, the cat had to learn how to escape from the box by stepping on a trendle that opened the gate. The graph illustrates the general decrease across trials in the amount of time it took the cat to escape. (*Source*, Nairne, 2000.)





Varied Replication

- Repeating a published study with a new twist.
- The best strategy for newcomers

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Discussion Questions (continued) What research topics in psychology interest you?

What hypothesis can you form about your topic?

Research Proposal

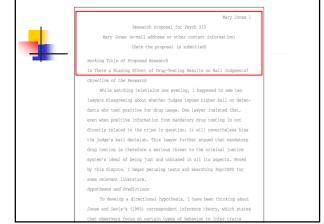
- What would you like to study?
- How would you like to study?
- The purpose of research proposal is to ensure a workable, experimental design that, when implemented, will result in an interpretable empirical finding of significant scientific merit.

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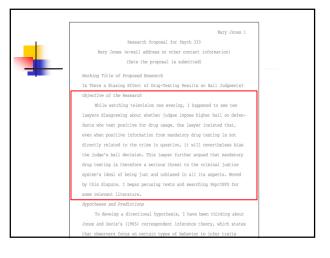
Research Proposal

- Workable research problem
- Careful prior consideration of related literature
- Possible practical problems
- Workable statistical analyses
- Eventual interpretation of expected results









Format of Research Proposal

- Working title
- Objective
- Hypotheses & Predictions
- Proposed method
- Proposed data analysis
- Ethical considerations
- Preliminary list of references

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Mony for oned Method I propose to use a randomized design in which the participa assigned to one of two conditions. The sample will consist o

- upproximately 30 students in an undergraduate class. I have been jiven permission by the course instructor to invite the students to participant. There also developed a "erise scenario" that the participants will ready it describes a man seen running from a burplarized house.
- support tested positive for drops while in custody: A nan was arrested as a supported burglar. We fit the description of a sum seen running from the burglarized house, While in custody the man submitted to a blood test, and it was determined that he had very recently used from.
- In the costrol condition, neutral information (i.e., the surpect ate and phoned someone) will be presented in lieu of the inforation shot having texted positive for drugs. A nam was arrested as a supported burglar, He fit the description of a namesen runnitor from the hyntarized house. The man
- spent enough time in custody to receive two meals and make three phone calls. Following these conditions, I will measure the dependent var
- able by asking the participants to respond to the following quess If you were the ball judge, what would you set the ball to Choose a dollar amount from \$0 to \$50,000.
- By reason for specifying a range is to give the participants common metric, and I chose this range because it seemed realistic and sufficiently wide to produce differences between the experimer and control groups, At the beginning of the gaselionaire, the

Nary Jones 3 sticlpants will be asked their ape, sex, year in college, and estied 60%. Ho mane will be asked for, because I believe that the parignate will be more forthcoming if they know they are responding expression.

requestions analyses I plot to analyse the results using an independent t test at to report not only the associated p whole how also the effect with only 100 models interval, has these calculations are proty simple. I sepect to do then by hard using ny coinciner, ha a report.int. [13] the over the planet analysis with interfeasure H more I have the raw data and have calculated the means and stand mentation.

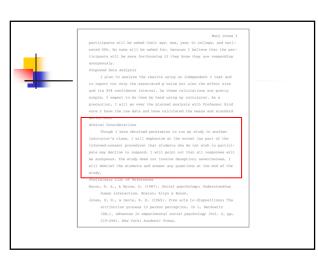
Sthical Considerations Though I have obtained permission to run my study in instructor's class, I will explasize at the outset (as par informed-consent procedure) that students who do not wish pare may decile to respond. I will point out that all res

pate may decline to respond. I will point out that all responses will be anonymous. The study does not involve deception; nevertheless, I will dekief the students and answer any questions at the end of the study. Preliminary List of References

Baron, R. A., & Byrne, D. (1987). Social psychology: Understa human interaction. Boston: Allyn & Bacon.

Zones, E. E., & Darlo, K. E. (1965). From acts to dispositions: T attribution process in person perception. In L. Berkewitz (Bd.), Advances in experimental social psychology (Vol. 2, pp 314-366). New York Another Press.





İnsan Araştırmaları Etik Komitesi

- Bir üniversite'de öğrencilerden veya çalışanlardan bilgi toplamak için izin alınması gerekli kurul.
- Üniversitemizde kuruluş aşamasında

Format of Research Proposal

- Working title
- Objective
- Hypotheses & Predictions
- Proposed method
- Proposed data analysis
- Ethical considerations
- Preliminary list of references

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