

The Cognitive Perspective on Social Interaction

Fall 2015

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Webcast Now Available



Social Psychology
is the Science of Mind in Action

Doctrine of Mentalism

“Mental States are to Action as Cause to Effect”

In order to understand
an individual's social behavior,
we must understand the social situation
from that individual's point of view.

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Social Cognition in *To Kill a Mockingbird*

Harper Lee (1961)

“You never really understand a person until you consider things from his point of view – until you climb into his skin and walk around in it.”

Atticus Finch to Scout,
after her first day at school



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Lewin's "Grand Truism"

Lewin (1933/1935)
Quote from Jones (1985)

$$B = f(P, E)$$

where

B = Behavior

P = Factors Internal to Person

E = Factors in External Environment

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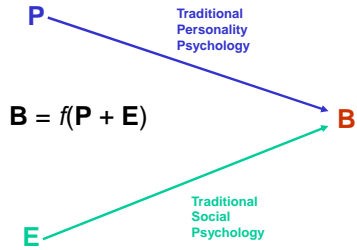
Two Cultures in Personality and Social Psychology

After C.P. Snow (1959, 1963)

- Personality: **B = f(P)**
 - Traits, Attitudes, Emotions, Motives, Values
 - Correlations Between Predictors, Criteria
 - Environment as Noise to be Averaged out
- Social Psychology: **B = f(E)**
 - Physical and Social Environment
 - Experimental Manipulations of IVs, DVs
 - Persons as Noise to be Averaged Out

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Independence of Personal and Environmental Factors



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The Behaviorist Revolution

Watson (1913, 1919)



- Humans are Behaving Organisms
 - Behavior, Conditions Under Which It Occurs,
 - Can Be Objectively Described
- Mental States Are Not Causally Efficacious
 - Behaving Organisms React to Environmental Stimuli
- Psychology a Natural Science
 - Predict Behavior to Advance Scientific Theory
 - Control Behavior to Promote Human Welfare ⁸

Social Psychology and Behaviorism

F. Allport (1924)



- Two Forms of Social Behavior
 - Behavior that Occurs in Response to the Stimulus of Another's Behavior
 - Behavior that Serves as a Stimulus to Another's Response
- Personality is "the individual's characteristic reactions to social stimuli" (p. 101).
- Attitudes as "preparations for response set up in the neuro-muscular system" (p. 320).
- All "behavior phenomena of groups are reducible to mechanisms of individual behavior in the social environment" (p. 382).

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Social Psychology as Functional Behaviorism

Environmental Control = Stimulus Control

- Cross-Situational Variability
 - Reinforcement History
 - Conditioned Stimuli
 - Discriminative Stimuli
- Emphasis on Objective Situation
 - The Situation Controls Behavior

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The Doctrine of Situationism

Skinner (1953)

“The free inner man who is held responsible for the behavior of the external biological organism is only a prescientific substitute for the kinds of causes which are discovered in the course of a scientific analysis. *All these alternative causes lie outside the individual* [emphasis added].



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The Doctrine of Situationism

After Skinner (1953)

- Important Causal Factors in Behavior are External to the Person
 - Reside in Environment
- No Mediation between Environmental Stimuli and Person's Response to Them
 - Eliciting Stimuli
 - Discriminative Stimuli
 - Reinforcement History

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Social Psychology as the Psychology of Social Influence

Allport (1954, p. 5)

- “With few exceptions, social psychologists regard their discipline as *an attempt to understand and explain how the thought, feeling, and behavior of individuals are influenced by the actual, imagined, or implied presence of other human beings.*”
- “[S]ocial psychology wishes to know how any given member of a society is affected by all the social stimuli that surround him.”



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The Power of the Situation Reasserted

Lieberman (2005), p. 746



“If a social psychologist was going to be marooned on a deserted island and could only take one principle of social psychology with him it would undoubtedly be the ‘power of the situation’. All of the most classic studies in the early days of social psychology demonstrated that **situations can exert a powerful force over the actions of individuals.**”

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“Situation Blindness”

Lieberman (2005), p. 746



“If the power of the situation is the first principle of social psychology, a second is that **people are largely unaware of the influence of situations on behavior**, whether it is their own or someone else’s behavior.”

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Analyzing Social Interaction

Lewin (1940/1951), p. 25

$$B = f(P, E)$$

The basic statements of a field theory are that (a) behavior has to be derived from a totality of coexisting facts, (b) these coexisting facts have the character of a "dynamic field" in so far as the state of any part of this field depends on every other part of the field...

In principle it is everywhere accepted that behavior (*B*) is a function of the person (*P*) and the environment (*E*)... and that *P* and *E* in this formula are interdependent variables.

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Denying the Primacy of Persons or Situations

Bowers (1973)



"Both behavior and reinforcement are subject to selection by biocognitive structures.

These structures include the biological substrates of mental processes; and the cognitive system which organizes them.

Interactionists agree that a person's behavior is determined by the situation in which it occurs. But they also assert that *the situation itself is largely determined by the person.*"

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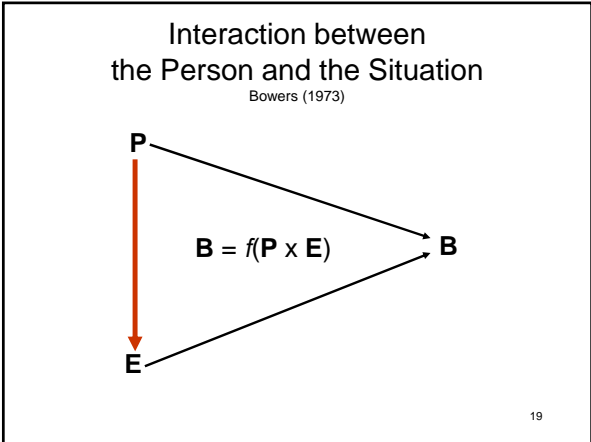
The Doctrine of Interactionism

Bowers (1973)




- "An interactionist or biocognitive view denies the primacy of either traits or situations in the determination of behavior..."
- More specifically, interactionism argues that *situations are as much a function of the person as the person's behavior is a function of the situation.*"

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- ### How Persons Construct Environments
- **Through Overt Behavior**
 - **Evocation**
 - Person Evokes Response From Environment
 - **Selection**
 - Person Chooses to Enter Environment
 - Or, Environment Selected for Person
 - **Behavioral Manipulation**
 - Person Creates or Modifies Objective Environment
 - Through Overt Behavior
 - **Through Covert Behavior (Cognitive Activity)**
 - **Cognitive Transformation**
 - Person Creates or Modifies Mental Representation of Environment.
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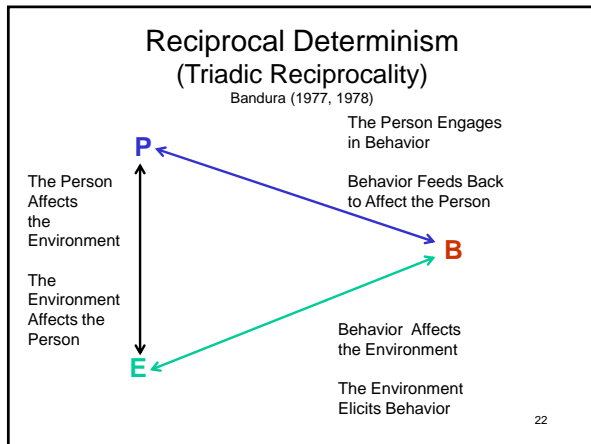
Doctrine of Reciprocal Determinism

Bandura (1978)

“[E]xplanations of human behavior have generally favored unidirectional causal models emphasizing either environmental or internal determinants of behavior.

In social learning theory, causal processes are conceptualized in terms of reciprocal determinism.”


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- ### Objective and Subjective Environments
- People Can Manipulate the Objective Situation Through Their Overt Behavior
 - Final Determinant of Behavior is the Actor's Mental Representation of the Situation
 - People Can Transform the *Subjective* Situation Through Mental Operations
 - Mental Representation of the Situation Leads to Overt behavior
 - This Overt Behavior Can Manipulate the Objective Situation
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The Thomas Theorem

Thomas (1923); Thomas & Thomas (1928)

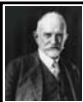


“Preliminary to any self-determined act of behavior there is always a stage of examination and deliberation which we may call *the definition of the situation*”

“If men define situations as real, they are real in their consequences”

“The single most consequential sentence ever put in print by an American sociologist”
(Merton, 1976)

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Symbolic Interactionism

George Herbert Mead (1934); Blumer (1937, 1989)



- “Human beings act toward things on the basis of the meaning that the things have for them.”
 - “Meaning... arises out of social interaction
 - Meanings are... modified through an interpretive process
- “The human being is an object to himself”
- “Action is conduct rather than response”
 - Interactions Are “Symbolic” Because They Occur in the Mind Before They Occur in Reality

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The Milgram Experiment

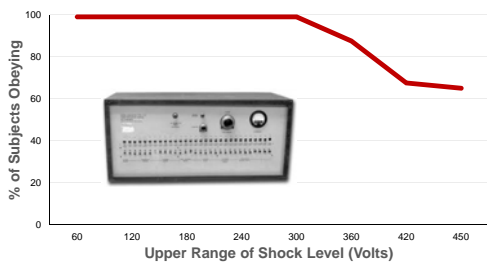
Milgram (1963, 1965)

- “Study of Memory and Learning”
 - Effect of Punishment
- “Random” Assignment to Roles
 - Teacher (True Subject)
 - Learner (Confederate)
- Paired-Associate Learning
 - Punish Mistakes with Increasing Shocks
 - “Slight” to “Danger: Severe Shock” to “XXX”
 - Learner Fakes Distress
 - Experimenter Requires Teacher to Continue

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Obedience as a Function of Shock Level

Milgram (1963)



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Situational Control of Obedience

Milgram (1963, 1964, 1968)

- “The sheer strength of obedient tendencies manifested in this situation”
- Factors Influencing Obedience
 - Presence of Authority
 - Proximity to Victim
 - Proximity of Authority
 - Institutional Context

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Critique of Milgram

Orne & Holland (1968)



In any psychological experiment, **the subject's knowledge and beliefs about the study may have significant effects upon his behavior.** In order to obtain undistorted responses, it is often felt necessary to disguise the purpose of an experiment.... **How the subject perceives the experiment in general, and how plausible the deception manipulation is for him in particular,** must be evaluated before meaningful inference can be drawn from the experiment to life outside the laboratory.

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Analysis of Milgram Experiment

Orne & Holland (1968)

- Purpose of Experiment
 - Effect of Punishment on Learning
 - What is the “Teacher” Doing There?
- Behavior of Experimenter
 - “The Experiment Requires That You Continue”
 - Inappropriate Passivity of Experimenter

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“From the Subject’s Point of View”

Orne (1962, 1970, 1973)



- Human Subject is Volunteer
 - Implicit Contract between Subject, Experimenter
- Experiment is Episodic
- Subjects as Sentient Beings
 - Engaged in “Effort After Meaning”
- Demand Characteristics
 - Totality of Cues in Experimental Situation
 - Communicate Design, Hypotheses, Predictions
- Pact of Ignorance

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Cognition Mediates Between Individual and Environment

- Individual Gives Meaning to Situations
 - Response to *Subjective* Situation
- Response Determined by the Meaning of Situation
 - Individual’s Knowledge, Beliefs, Expectations
 - Cognitive/Behavioral Skills
- Knowledge Acquired Through Learning
 - Direct Experience
 - Vicarious Experience

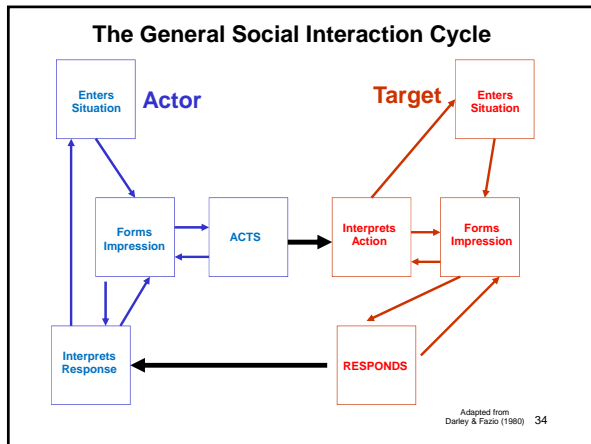
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The General Social Interaction Cycle

Cantor & Kihlstrom (1987),
after Darley & Fazio (1980) Jones (1986)

- Dyadic Social Interaction
 - Can be generalized
- Assigned Roles (Arbitrary)
 - Actor
 - Initiates Interaction
 - Target
 - Object of Actor’s Action

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The Actor Enters the Situation

- Interaction Goal
 - Mundane or Monumental
- Fund of Social Knowledge
 - Concerning Self, Target
 - Generic Information
 - Relevant to Interaction Goal
 - Repertoire of Skills
 - Cognitive, Motoric

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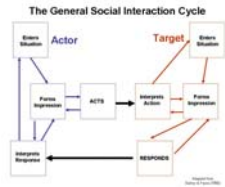
The Actor Forms an Impression

- Entire Situation
 - Specific Target
 - Immediate, Global Context
- Sources of Impression
 - Information Extracted from Stimulus
 - Knowledge Stored in Memory
- Impression Determines Action
 - Target Must Respond

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The Target Must Respond

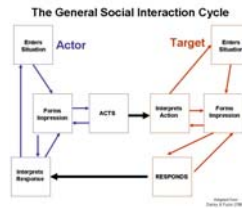
- Target Has Entered Situation
 - Actively, Passively
- Carries Own Fund of Social Intelligence
 - Knowledge, Beliefs, Skills
- Has Own Interaction Goals
- Also Forms Impression
 - Revised by Actor's Action



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The Target Responds

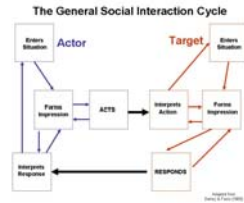
- Based on Overall Impression of Situation
- Focus Shifts Back to Actor
 - Revises Impression
- Interprets Response
 - Revises Impression
- Actor Responds to Target
 - Focus Shifts Back to Target
- Cycle Continues
 - Until Interaction Concludes



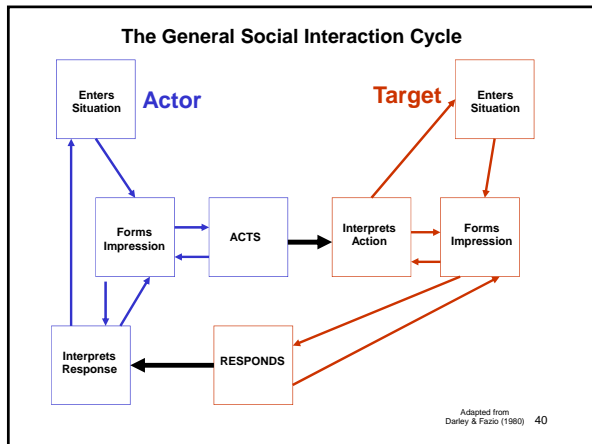
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Cycles *Within* Participants

- Behavior Feeds Back to Actor
 - Revises Impression of *Self*
- Each Participant's Behavior is Determined by His/Her Construal of...
 - Self
 - Other
 - Situation
 - Own and Other's Behavior




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The Self-Fulfilling Prophecy

Merton, 1947, 1958



"Definitions of a situation... become an integral part of the situation and thus affect subsequent developments...."

The self-fulfilling prophecy is, in the beginning, a *false* definition of the situation evoking a new behavior which makes the originally false conception come *true*.


The specious validity of the self-fulfilling prophecy perpetuates a reign of error. For the prophet will cite the actual course of events as proof that he was right from the very beginning.

Such are the perversities of social logic."

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The Self-Sustaining Prophecy

Salomon (1981)



- Original Definition Need Not Be *False*
- Correct Definition Also Leads to Behavior
 - Keeps the Situation As It Is
 - Intensifies Its Characteristics
 - Prevents It From Changing

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Pygmalion in the Classroom

Rosenthal & Jacobson (1968)



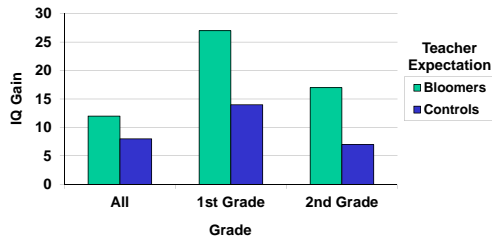
- Earlier Work on Experimenter Bias
- Public Elementary Schools
 - “Oak City” (South San Francisco)
- IQ Pretest
 - Identify Random 20% as “Late Bloomers”
- IQ Retest
 - Gains in IQ: Late Bloomers > Controls



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IQ Gains

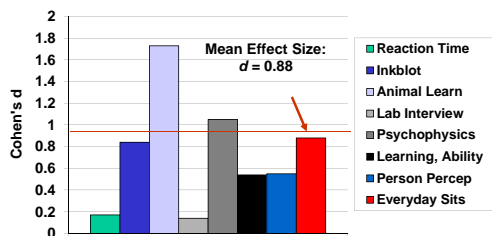
Rosenthal & Jacobson (1968)



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Magnitude of “Pygmalion Effect”

Rosenthal & Rubin (1978)



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Pygmalion Effect: Three-Stage Model

Brophy & Good (1974); Darley & Fazio (1980)

- Teachers Develop Expectations
- Teachers Treat Students Accordingly
- Students React by Confirming Expectations

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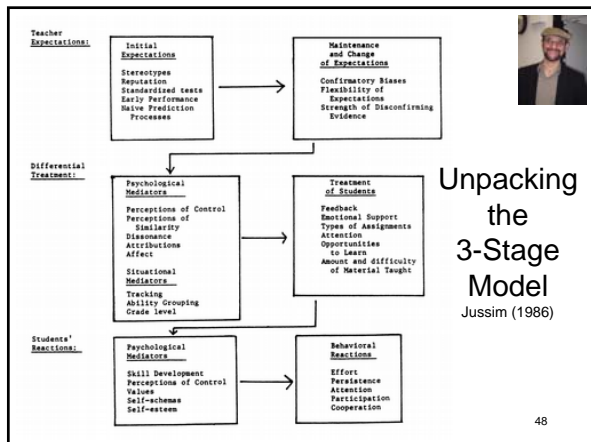
Mediators of the “Pygmalion” Effect

Rosenthal & Rubin (1978)

- Teachers’ Overt Behavior Manipulation
 - Socio-Emotional Climate
 - Feedback
 - Input
 - Output
- Origins of Behavior in Teachers’ Mental States
 - Beliefs and Attitudes about Pupils Transformation
 - Origins of Overt Behaviors

“The soft prejudice of low expectations”
G.W. Bush (2000)

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Stereotype Threat: A Self-Fulfilling Self-Prophecy

Steele & Aronson (1995)



- Individual Awareness of Group Stereotype
- Performance Diagnostic of Personal Ability
- Stereotype Constitutes a Double Threat
 - Shame of Confirming Group Stereotype
 - Humiliation Attached to Personal Failure
- Increased Anxiety Impairs Performance
 - Category Salient
 - Domain Self-Relevant
 - Test Diagnostic

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Stereotype Threat in African-Americans

Steele & Aronson (1995); Steele (1997)

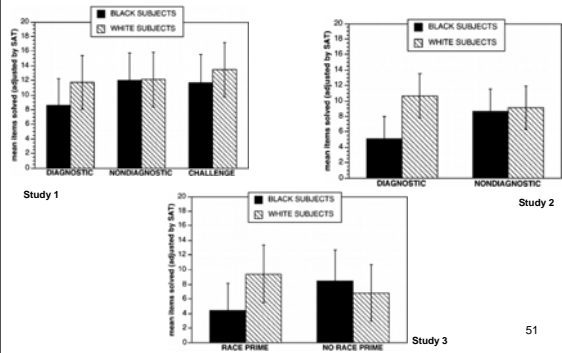


- Stereotype of African-Americans
 - Relatively Low Intellectual Ability
 - Black-white SAT Differential
- Black and White College Students
- Difficult Test of Verbal Ability
 - Test Diagnostic of Personal Abilities
 - Challenged to Do Very Best
 - Test Not Diagnostic of Personal Abilities
 - Test Not Diagnostic of Personal Abilities
 - Still, Challenged to do Very Best

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Stereotype Threat in African-Americans

Steele & Aronson (1995)



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Stereotype Threat in Women

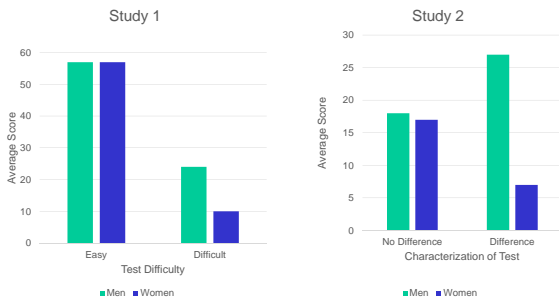
Spencer, Steele, & Quinn (1999)

- **Stereotype of Women**
 - Relatively Low Mathematical Ability
- **Male and Female College Students**
- **Difficult Test of Mathematical Ability**
 - Study 1: Test Presented as Easy or Hard
 - Study 2: Test Characterized as Revealing Gender Differences
- **All Subjects Challenged to do Very Best**

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Stereotype Threat in Women

Spencer et al. (1999)



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Expectancy Confirmation Effects

Jones (1986)

- **Behavioral Confirmation**
 - Beliefs, Expectancies Cause Behavior
 - Elicits Behavior in Turn
- **Perceptual Confirmation**
 - Behavior Ambiguous
 - Beliefs, Expectancies Influence Interpretation



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Behavioral Confirmation Effects

Snyder & Swann (JESP 1978)

- Complete Personality Checklist
- “Noise Weapon” apparatus
 - Reaction-time game
 - Disrupt opponent’s performance
- Labeling Perceiver
 - View Target as Hostile or Nonhostile
- Target
 - View own behavior as dispositional or situational



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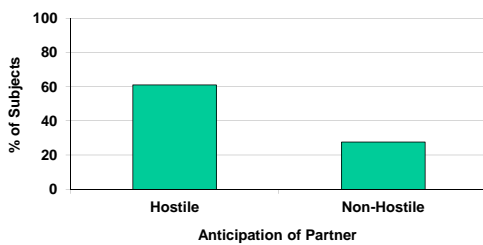
Phase 1

- Subjects Take Turns
 - 24 Trials
 - 8 Blocks of 3
- First Block of 3 Trials
 - Labeling Perceiver at Noise Weapon
 - Target at RT Apparatus

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Selection of High Intensity Noise by Labeling Perceiver

Snyder & Swann (1978)



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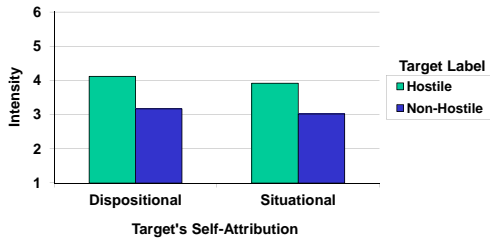
Phase I Continues

- Subjects Exchange Places
 - Another Block of 3 Trials
- Labeling Perceiver at RT Apparatus
- Target at Noise Gun
 - Can Retaliate Against Labeling Perceiver

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Target's Retaliation Toward Labeling Perceiver

Snyder & Swann (1978)

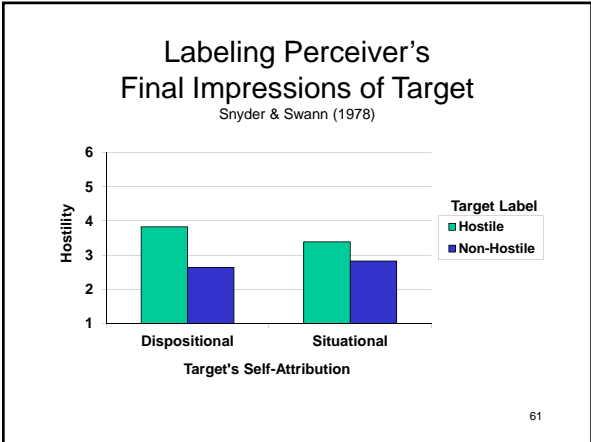


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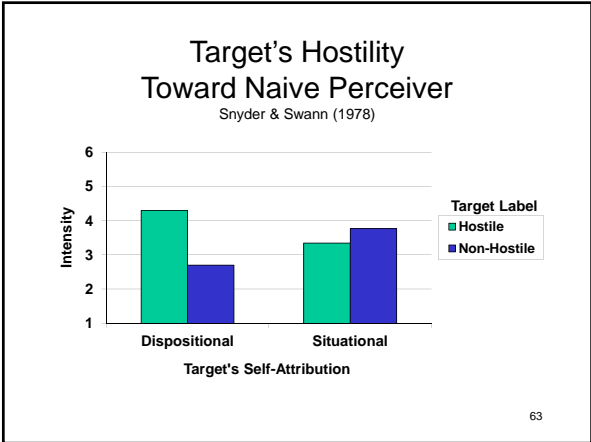
Phase I Continues

- 7 More Blocks Each
- Labeling Perceiver Rates Target

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- ### Phase 2
- Labeling Perceiver Dismissed
 - Target Continues with Naive Perceiver
 - No Labeling of Target
 - Target's Self-Attributions Reinforced
 - Subjects Take Turns
 - 24 Trials (8 Blocks of 3 Trials)
 - First Trial
 - Target at Noise Weapon
 - Naive Perceiver at RT Pparatus
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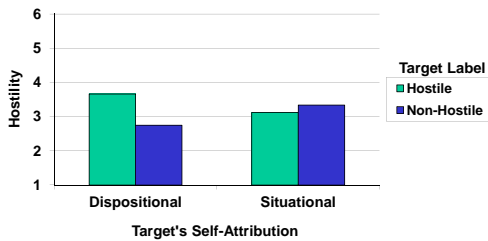
Phase II Continues

- 7 More Blocks Each
- Labeling Perceiver Rates Target

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Naive Perceiver's Final Impressions of Target

Snyder & Swann (1978)



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When Belief Creates Reality

Snyder (1984, p. 298)



- “[W]hether individuals regard their beliefs as assumptions or as hypotheses, whether their beliefs concern themselves or other people, social beliefs can and do channel the remembering of past events and the unfolding of future events in ways that determine both the subjective and objective reality of their beliefs.”

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Beliefs Create Reality

Snyder (1984)



- Labeling Perceivers Had Beliefs
 - Behaved Accordingly
- Elicited Behavior From Targets
 - Corresponding to Perceiver's Beliefs
- Targets' Behavior Persisted
 - In New Situation, New Partner
 - If Given Dispositional Self-Attribution

Beliefs About Others Are Powerful;
But So Are Beliefs About Ourselves.

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The "Mastermind" Experiment

Swann & Hill (1982)



- Women Play "Mastermind"
 - Codebreaking Game
- Self-Ratings of Dominance
 - Dominant vs. Submissive Self-Concept



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Phase I



- Paired with Partner Against Experimenter
 - Experimenter Sets Code
 - Subjects Try to Break It
- Alternate Role of Leader, Assistant
- Partner Actually a Confederate

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The "Mastermind" Experiment

Swann & Hill (1982)

- Phase II, Partners Choose Leader
- False Feedback from Confederate
 - "Forceful, Dominant Type" (Or Not)
 - Crossed with Self-Concept Condition



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Design of Experiment

Swann & Hill (1982)

<i>Confederate's Assertion</i>	<i>Subject's Self-Concept</i>	
	Dominant	Submissive
Dominant	Consistent	Discrepant
Submissive	Discrepant	Consistent

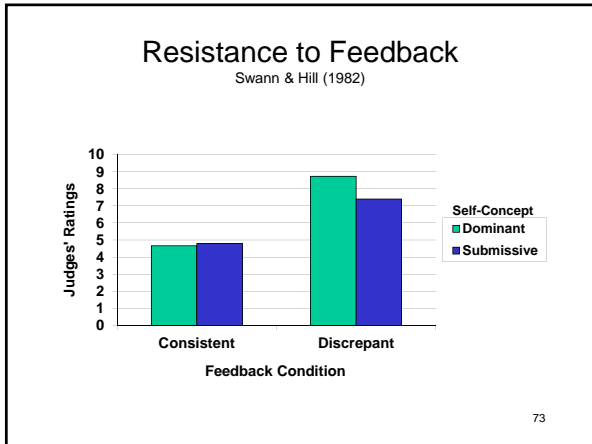
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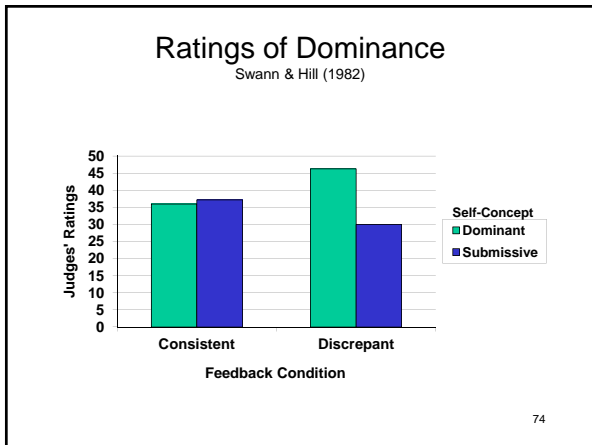
The "Mastermind" Experiment

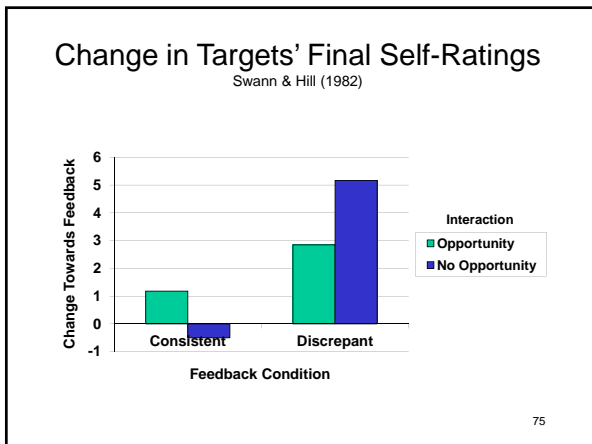
Swann & Hill (1982)

- Manipulate Interaction Opportunity
 - React to Feedback
 - Protestations, Statements, Queries
 - Control Subjects: No Opportunity
- Interactions Rated by Blind Judges

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“A Battle of Wills”

Swann & Ely (1984)



- Expectancy Confirmation
 - Perceiver shapes Environment
 - Actor Shapes Target
- Self-Confirmation
 - Object Shapes Perceiver
 - Target Shapes Actor

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Social Construction and Social Cognition

- Beliefs Create Reality
 - Subjective, Objective
 - About Ourselves, Others
 - Situations, Behavior
- How Are These Beliefs...
 - Acquired (through Perception, Learning)
 - Stored (in Memory)
 - Altered (through Thought)
 - Communicated (through Language)

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Expectancy Confirmation Effects

Jones (1990)



- Behavioral Confirmation
 - Beliefs, Expectancies Cause Behavior
 - Elicits Behavior in Turn
- Perceptual Confirmation
 - Behavior Ambiguous
 - Beliefs, Expectancies Influence Interpretation
- Self-Verification
 - Challenge Expectancy-Confirmation Effects
 - Behavior Reinforces Self-Concept

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Classification of the Environment

- Objective Environment
 - “Third-Person” Description
- Subjective Environment
 - “First Person” Description

The Subjective Environment
Really Determines Behavior

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Cognitive Mediation of Social Interaction

- Perception
- Memory
- Belief
- Interpretation
- Frame of Reference

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