

Cognitive & Affective Bases of Intimate Partner Violence Joe Ferguson for AGee Greene

PSY 706 & 725 with Violence Track Emphasis Santa Barbara, CA - January 13th, 2003

http://www.Fergi.com/Fielding.htm





Domestic Violence



- 4 million American women experience a serious assault by an intimate partner during an average 12-month period
- Each year, an estimated 3.3 million children are exposed to violence by family members against their mothers or female caretakers
- In 1993, approximately 575,000 men were arrested for committing violence against women
- Each man represents a family in perpetuity

American Psychological Association. (1996). Report of the American Psychological Association Presidential Task Force on Violence and the Family.

An important opportunity for social action



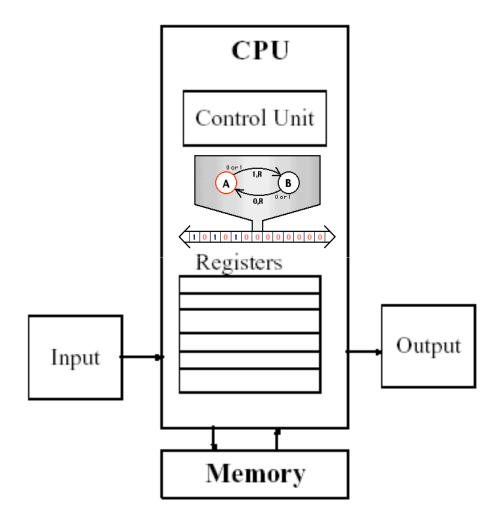
The Cognitive Hypothesis

"The central hypothesis of cognitive science is that thinking can best be understood in terms of representational structures in the mind and computational procedures that operate on those structures."





Computer Organization

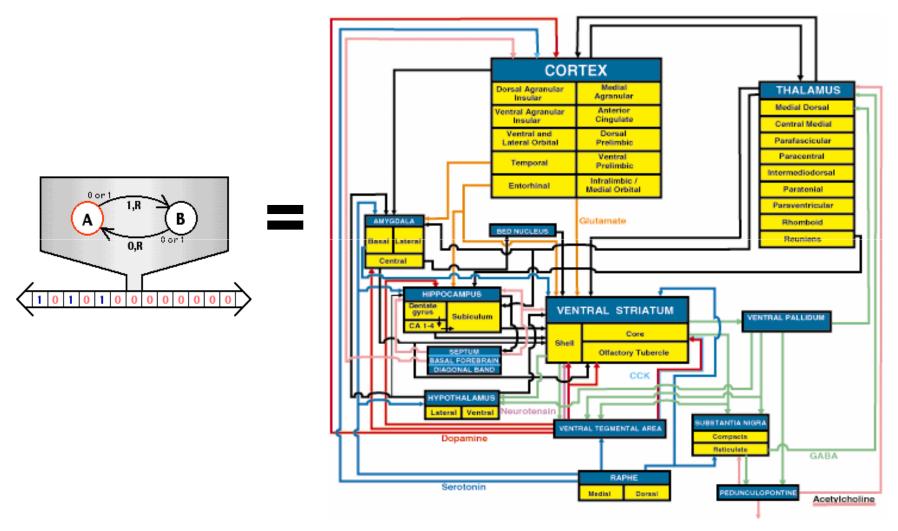


Procedure and data are both memory





Church-Turing Serialization



Generalizes to any cybernetic function

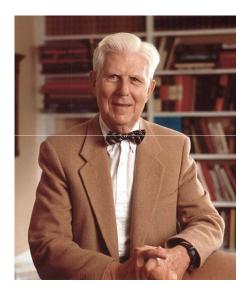




Some Cognitive Computational Procedures

- Speaking
- Reading
- Writing
- Vision
- Recognizing
- Learning
- Remembering
- Comparing
- Discriminating
- Performing

- Understanding
- Planning
- Speculating
- Prioritizing
- Deciding
- Calculating
- Estimating
- Imagining
- Responding
- And maybe a few others...



What is called thinking?

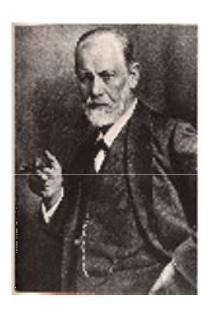




Psychodynamic Computational Procedures

- Displacement
- Transference
- Symbolization
- Condensation
- Fantasy
- Repression
- Reaction Formation
- Projection
- Isolation

- Undoing
- Conversion
- Introjection
- Identification
- Sublimation
- Rationalization
- Idealization
- Dream Work
- And maybe a few others...

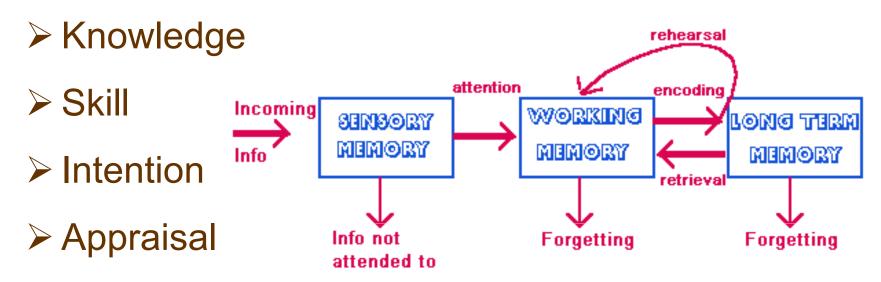


Specializing in resolution of dissonance





Memory



Association

The representational structures upon which computational procedures operate are <u>all</u> memory

Objects, summaries, pointers, hints, & triggers





Acquisition of Repertoire

- Vicarious modeling
- Speculation & study
- Operant conditioning

Understanding

Judgment

Knowledge

Cognition

Information

Processing

Data

Motivators are primary or secondary reinforcers.

Strategy is the goal-oriented line of action prescribed by motivation. Specific conceivable futures imply goal-oriented lines of action to attain them, and each goal-oriented line of action is a strategy.

Tactics operationalize strategy at the level of actions, intentions to act, and preferences for actions to be taken, with reference to concrete environmental stimuli.

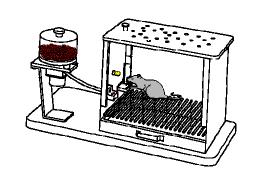
Stored in memory with activation cues

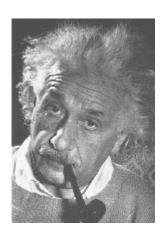




Reinforcement & Learning

- Manifest at all levels of organization
 - ❖ Neural: Spatial orientation, foraging
 - Motor: Walking, eating, fighting
 - ❖ Social: Face recognition, identity, empathy
 - **❖ Cognitive:** Declarative, procedural, intentional
 - Metacognitive: Feeling, intuiting, evaluating, exploring, speculating, forecasting, planning, monitoring, controlling
- Learning is transformative & exploratory
- Reinforcement is preservative & repetitive





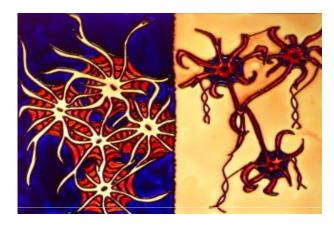
Emotional and cognitive at all levels





Novelty Is Efficient

- New learning is straightforward
 - Introduces new information into virgin networks



- Unlearning is impossible
 - Networks entangle knowledge
 - Knowledge is widely distributed
 - Network effects are irreversible



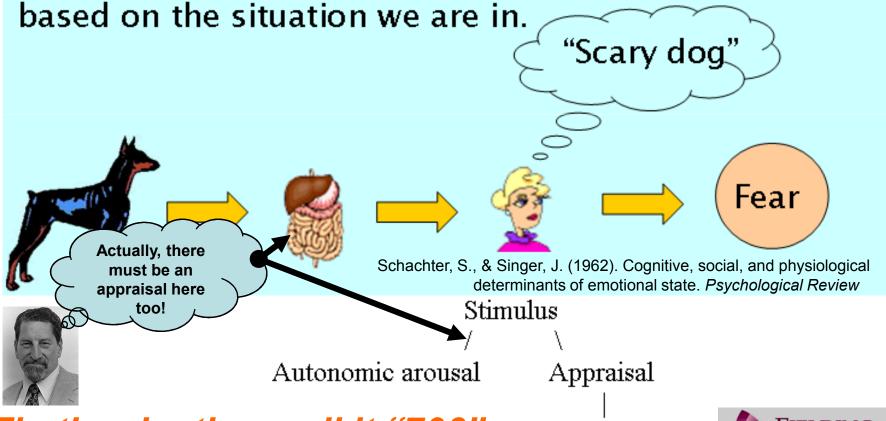
Profound implications for intervention





Cognitive Appraisal & Emotion

We have the feeling of an emotion when two factors are present: we are physiologically aroused, and we interpret that arousal in terms of a specific emotion



That's why they call it "706" Conscious feeling





Emotion as Metacognition



Richard Lazarus's cognitive-motivational-relational theory of emotion: All emotions are the result of cognitive appraisals of the personal meaning of events and experiences. Emotions occur as the result of the cognitive interpretation of a stimulus or event to determine if the event is personally positive, negative or neutral. Then a secondary appraisal takes place to assess our thoughts and emotions and determine if we are able to successfully cope with the event.

Lazarus proposed that we have four categories of emotion:

- 1. **Negative emotions** that result from harm, loss or threats: anger, fear, shame, sadness, jealousy, and disgust
- 2. **Positive emotions** that result from reaching goals: happiness, joy, pride, and love
- 3. **Borderline emotions**: hope, contentment, compassion
- 4. Cognitive evaluations that could lead to emotions: grief, depression, frustration, disappointment, nervousness, tension, curiosity, surprise and amazement.

Lazarus, R. S. (1991). Emotion and adaptation. London: Oxford Univ Press.

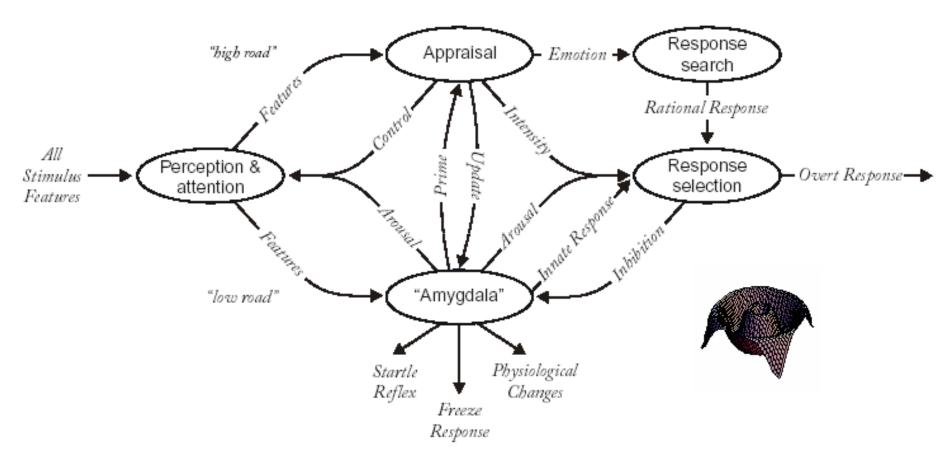


Summary global situation analysis





The Cognitive Engine



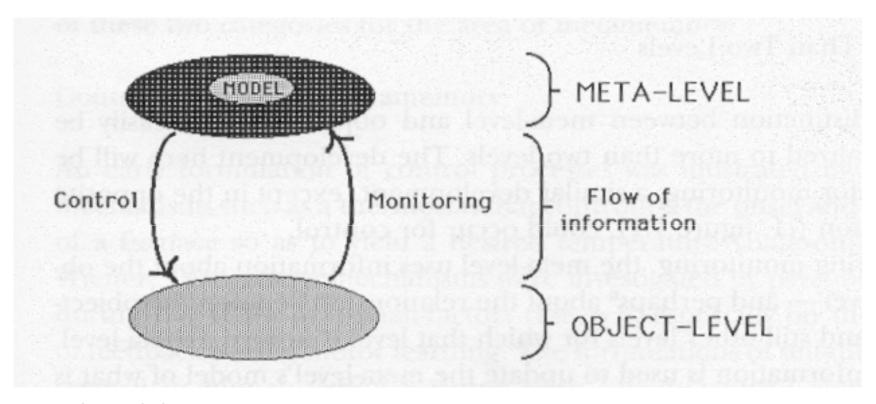
Newell, A. (1992). Unified theories of cognition and the role of Soar. In J. A. Michon & A. Akyuerek (Eds.), Soar: A cognitive architecture in perspective: A tribute to Allen Newell. New York, NY, US: Kluwer.

Emotion & cognition are deeply intertwined





Metacognitive Hierarchies



Metcalfe, J., & Shimamura, A. P. (Eds.). (1994). *Metacognition: Knowing about knowing*. Cambridge, MA, US: The MIT Press.

Nelson, T. O. (1997). The meta-level versus object-level distinction (and other issues) in formulations of metacognition. American Psychologist, 52(2), 179-180.

Applies to control processes at every level



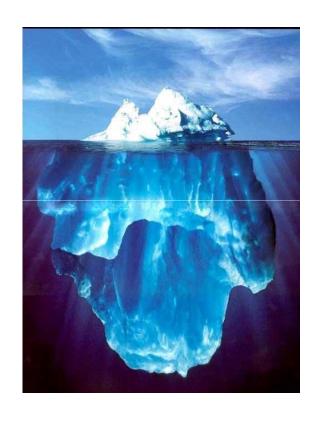


Summary Metacognition

Renders thinking tractable

- **≻**Tip-of-tongue
- > Feeling-of-knowing
- >Intuition
- **Emotion**
- > Self-efficacy

Nelson, T. O. (Ed.). (1992). *Metacognition: Core readings*. Needham Heights, MA, US: Allyn & Bacon.





Quick...What do you know? What can you do?

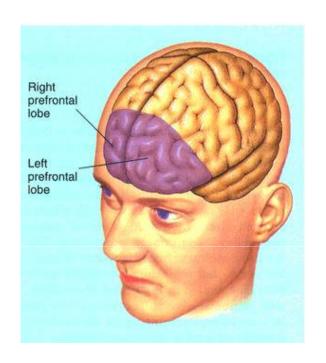




Executive Metacognition

Components of Executive Functioning





Goldberg, E. (2001). *The executive brain : frontal lobes and the civilized mind*. Oxford ; New York: Oxford University Press.

Metcalfe, J. (1998). Insight and metacognition. In G. Mazzoni & T. O. Nelson (Eds.), Metacognition and cognitive neuropsychology: Monitoring and control processes Mahwah, NJ, US: Lawrence Erlbaum Associates.

Requires more time and attention

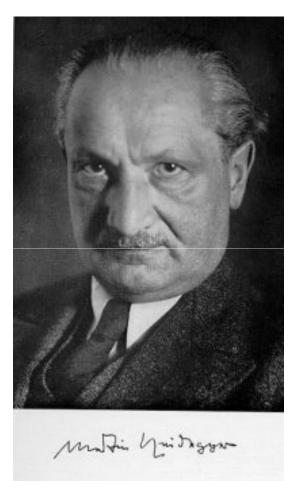




What Is Called Thinking?

- > The Discovery of Method
 - Thinking
 - Hunting
 - Fire starting
 - Farming
 - Writing
 - Science
 - Phenomenology
 - Psychotherapy
 - Management





Heidegger, M. (1968). What is called thinking? New York,: Harper & Row.

Complex imitation is essentially human



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Poodle in the Microwave

There was some woman who had a dog, which she would put in the oven to dry off after giving him baths. I thought this was stupid enough, but then the woman gets a microwave oven.

While being "dried off" in the microwave, the dog explodes and (obviously) dies.

That's stupid enough, But the woman sued the company which made the microwave for some obscene amount of money -- and won. Because there was no warning label on the microwave oven.

Collected on the Internet, 1998

http://www.snopes2.com/horrors/techno/micropet.htm





The Meme Meme

Intention

Alliance
Gratification
Usefulness
Obligation
Novelty
Threat
Promise
Beauty

Procedure

Intention Skill Decision Action

Information

Meaning Truth Reference

Affect

Emotion Valance Potency

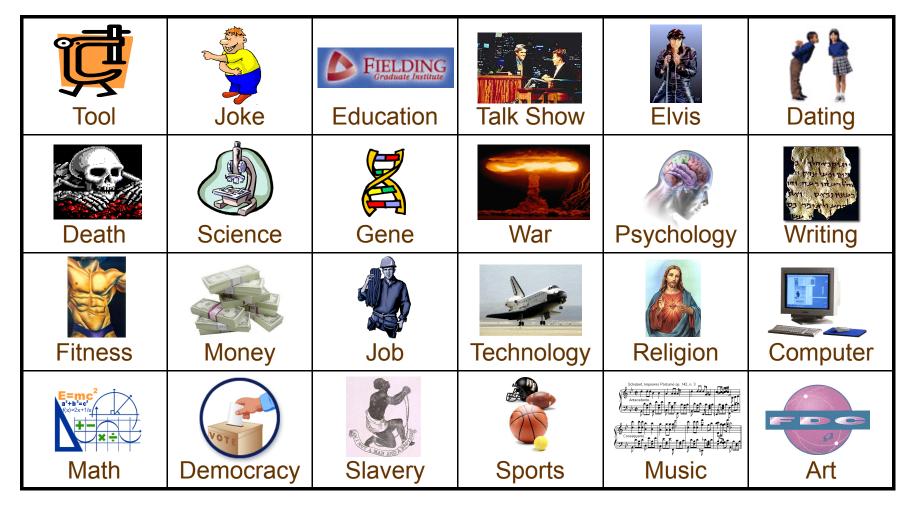
Force

Control
Influence
Alliance
Skill
Fame
Obligation
Authority
Advocacy
Interpretation
Arbitration



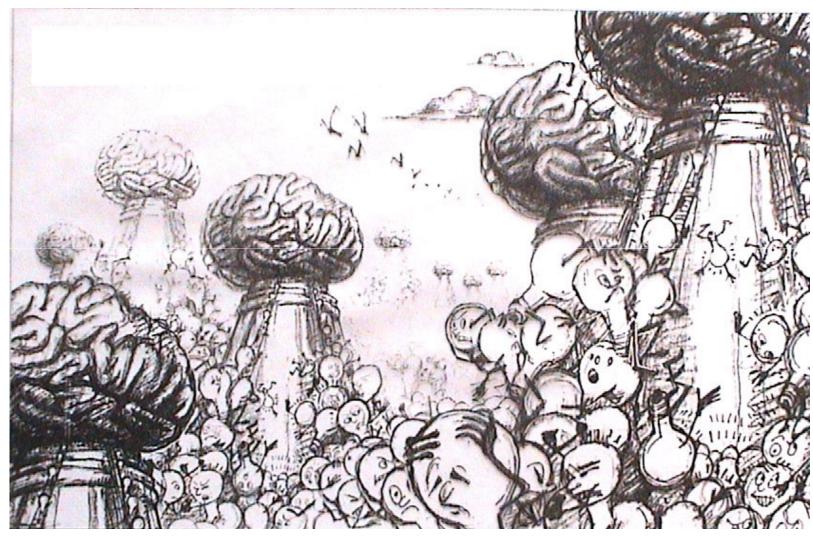


A Few Famous Memes





Memes Compete







The Respiration Meme

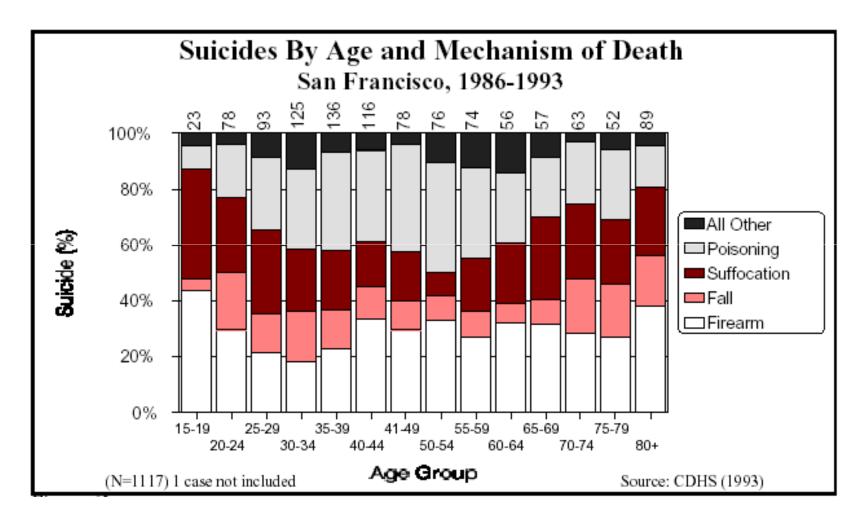
Procedure You get to control your breath in order to speak or smoke as long as there is enough oxygen in the blood. If not, your free will is revoked and your body panics. Intention Force Information Life support Irresistible Blood CO² level Affect Urgency Fear **Panic**

The limit of cognitive influence?





Respiration Overcome

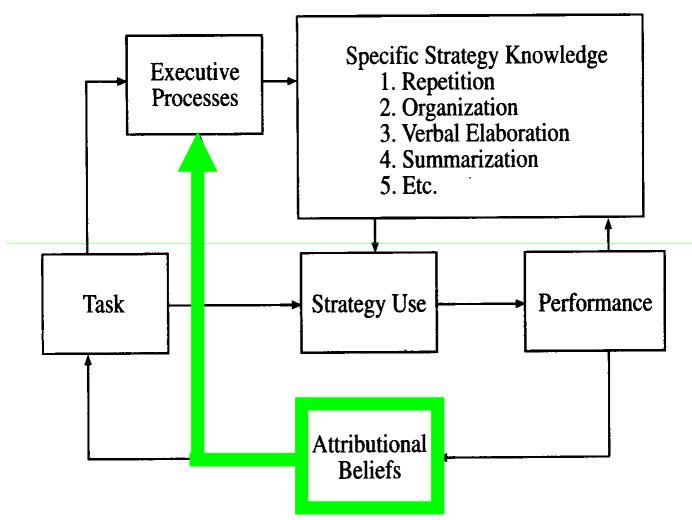


If you can't be disciplined, be clever





Metacognition & Self-Efficacy



When success is attributed to strategy





Deviant Cognition Is Effective

- Pathological interpretation of deviant behavior (the medical model) implies defective processing
- Psychotherapy assumes that processing is effective and correct, but that perception, interpretation, knowledge, or procedure may be defective or sub-optimal

Szasz, T. S. (1974). The myth of mental illness: Foundations of a theory of personal conduct. New York, NY: Harper & Row.

GIGO: A cognitive interpretation of psychopathology



Social Learning Model of DV

Aggression is learned in two basic ways:

- 1. Observing aggressive models
- 2. Receiving or expecting payoffs following aggression



The payoffs may be in the form of:

- 1. Stopping aggression by others
- 2. Getting praise or status or some other goal
- 3. Getting self-reinforcement and private praise
- 4. Reducing tension



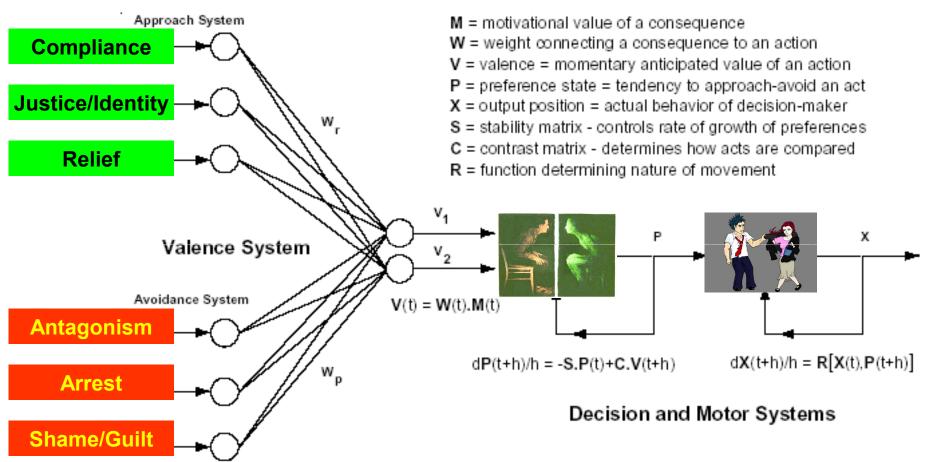
Bandura, A. (1973). Aggression: A social learning analysis. Oxford, England: Prentice-Hall.

A decision is made in every case





Bounded Rationality



Tedeschi, J. T., & Felson, R. B. (1994). *Violence, aggression, and coercive actions*. Washington, DC, US: American Psychological Association.

Is intimate partner violence rational?





Benefits of Partner Violence

- Establish immediate agenda
- Display power
- Control the situation
- Suppress opposition
- Relieve tension





Immediate reinforcement





Costs of Partner Violence

> Arrest

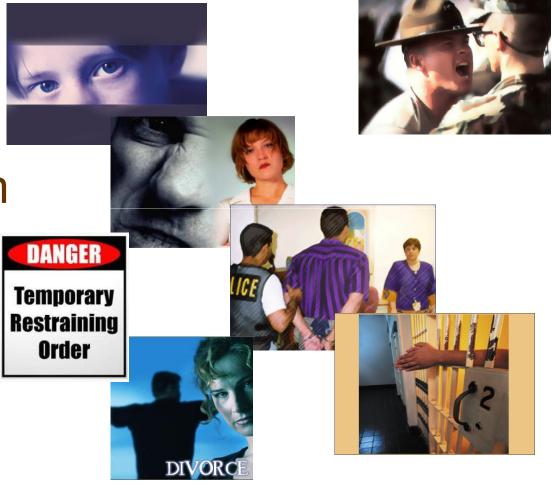
> Prison

Antagonism

> Fines

> Shame

Anxiety



Delayed consequences





Anger Disrupts Analysis

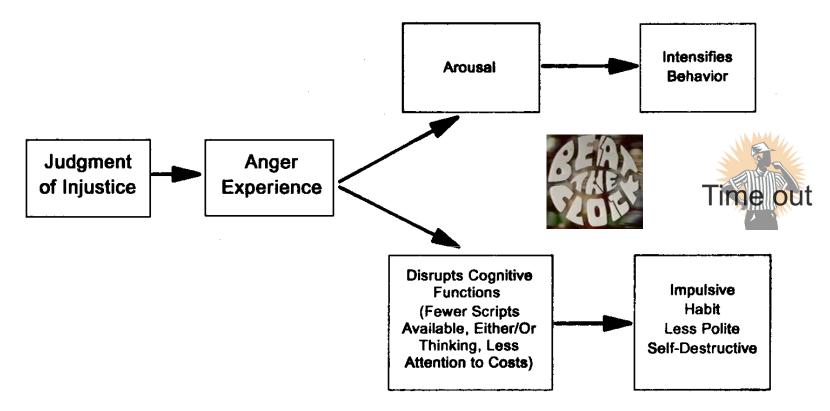


Figure 8.3. The effects of anger experiences on subsequent actions.

Tedeschi, J. T., & Felson, R. B. (1994). *Violence, aggression, and coercive actions*. Washington, DC, US: American Psychological Association.

Wyer, R. S., Jr., & Srull, T. K. (Eds.). (1993). Perspectives on anger and emotion.

Hillsdale, NJ, England: Lawrence Erlbaum Associates, Inc.



The Role of Alcohol

- Cognitive impairment
- Problem solving ability
- Sensitivity to social cues
- Risk tolerance





Pernanen, K. (1991). *Alcohol in human violence*. New York, NY, US: Guilford Press. Tedeschi, J. T., & Felson, R. B. (1994). *Violence, aggression, and coercive actions*. Washington, DC, US: American Psychological Association.

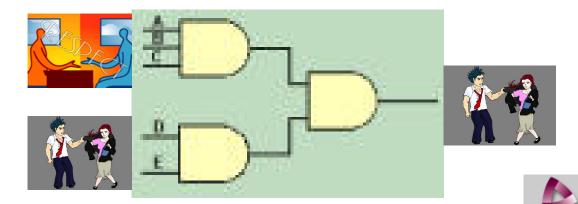
Even expectancy effects are significant





Repertoire & Efficacy

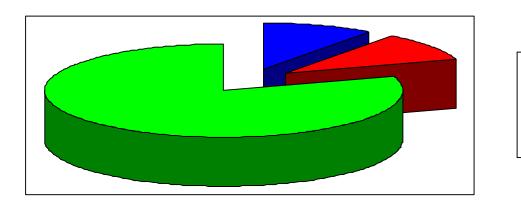
Approach	Desirability	Confidence	Weight
Negotiation (socially competent)	100	0%	0
Coercion (socially incompetent)	1	100%	1





Tripartite Etiology of Intimate Partner DV

- Psychopathological IPDV
- Sociopathological IPDV
- Incompetent IPDV



PsychopathologicalSociopathologicalIncompetent

Generic treatment for incompetence?





One-Size-Fits-All Interventions?



99.999% effective in the general population



32% effective in the DV population*

*Gondolf, E. W. (2000). Mandatory court review and batterer program compliance. Journal of Interpersonal Violence, 15(4), 428-437.

Of course there are generic factors





Actualization MetaMeme

Intention Relief Happiness Serenity Respect Love Wealth Anything	Procedure 1) Set goal 2) Imagine alternatives 3) Solid sober arbitration 4) Decision 5) Action 6) Evaluation 7) Repeat until done	Force Free will Interpretation Choice
	Information Knowledge Skill Understanding Affect Exhilaration	Decision Action

Generic executive skill





Batterer Action Protocol

Activation

State Awareness Problem Solving

Future Orientation Interpersonal Dynamics

Actualization

Domestic Intimate Violence Relationship **Effective Substance Parenting Abuse** Power & **Self Control** & Efficacy Control Freedom & **Psychological** Responsibility Insight





State Awareness

- Rocky is sitting quietly in a field of grass, thinking about eating one of the nuts that he has squirreled away
- Rocky is not really doing anything else
- Rocky is quite happy sitting there doing this



Squirrels are not complicated





At Ease



Neutral



- 1. Calm
- 2. Comfortable
- 3. Hungry
- 4. Thoughts of television
- 5. Sleepy

Problem solving is optional

Watch TV, eat, read, think, listen to music, snuggle, make important decisions

Just hanging out



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What Was That?







Waiting To Be Eaten





Anxiety Agitated Alert Suspicious Undecided Paralyzed 5. **Problem solving Is central** Investigate, patrol, interrogate, monitor, evaluate, plan for contingencies, get ready to run and get ready to fight

Figure out what's happening





Decision Time

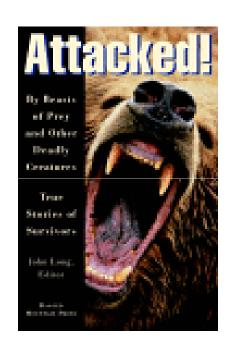








Expecting To Be Eaten



Fear

- 1. Sweat & blood
- 2. Images without thoughts
- 3. Muscular activation
- 4. Fixation on threat
- 5. Hair trigger

Reflex action only; no new solutions

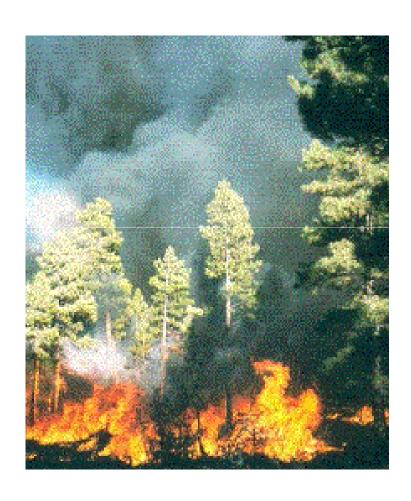
Scream & yell, run like hell, try to look tough, deny everything, take drastic action, panic if necessary

Escape if possible





No Way Out











Attack





Anger

- 1. Sweat & blood
- 2. Images without thoughts
- 3. Muscular activation
- 4. Fixation on threat
- 5. Hair trigger

Reflex action only; no new solutions

Scream & yell, try to look tough, blame it on your target, attack *NOW*, freak out!

Ready to fight





Salvation!





Rescued by a beautiful angel!





Exploit Opportunity!



Exhilaration



- 1. Agitated
- 2. Alert
- 3. Optimistic
- 4. Creative
- 5. Decisive

Problem solving Is central

Investigate, speculate, experiment, evaluate, tinker, try, make decisions and take action

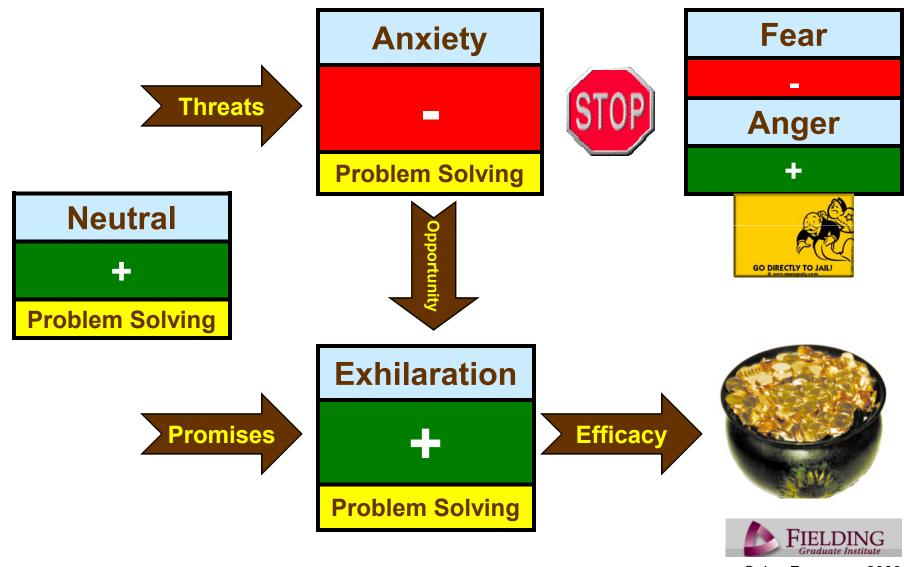
Ready to Rock N' Roll!!!



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State Awareness



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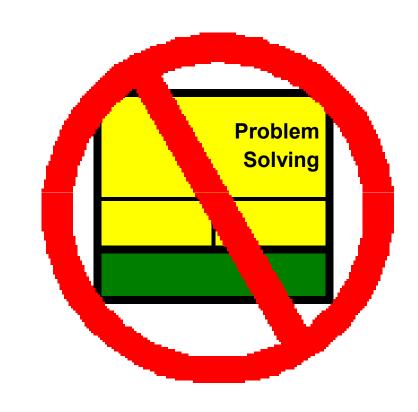
Other Important States

Intoxication

Lust

Jealousy

Depression

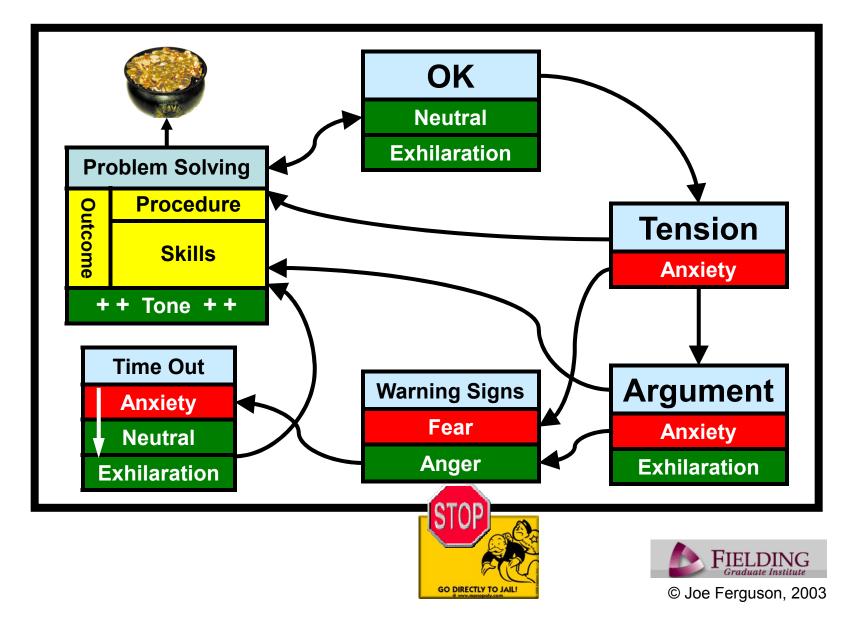


What are you capable of right now?





The Box





Batterer Action Protocol

Activation

State Awareness Problem Solving

Future Orientation

Interpersonal Dynamics

Actualization

Domestic Intimate Violence Relationship Effective Substance Parenting Abuse Power & **Self Control Control** & Efficacy **Personal Psychological Finance** Insight





Landmines & Opportunities



This is your life





Identify Important Goals

- > Some areas are common
 - Relationships



- Violence
- Children

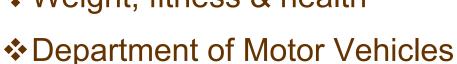




- Money
- ❖ Job



- Alcohol & drugs
- Weight, fitness & health





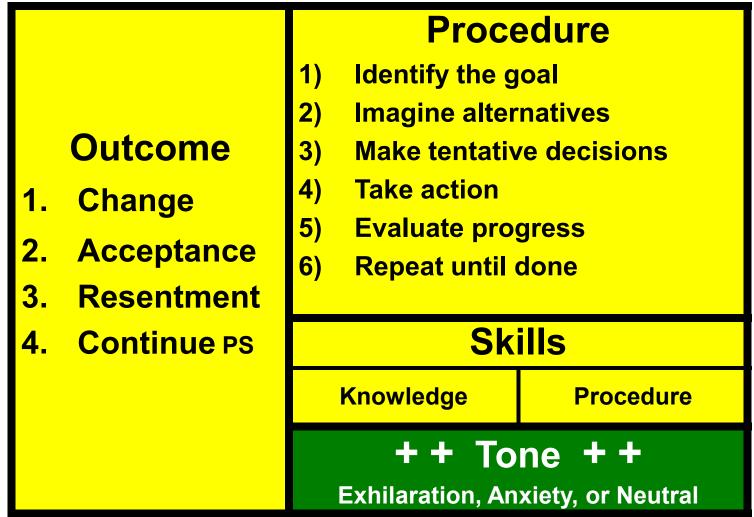


There whether you know about them or not





Problem Solving



The box inside The Box





Batterer Action Protocol

Activation

State Awareness

Problem Solving

Future Orientation

Interpersonal Dynamics

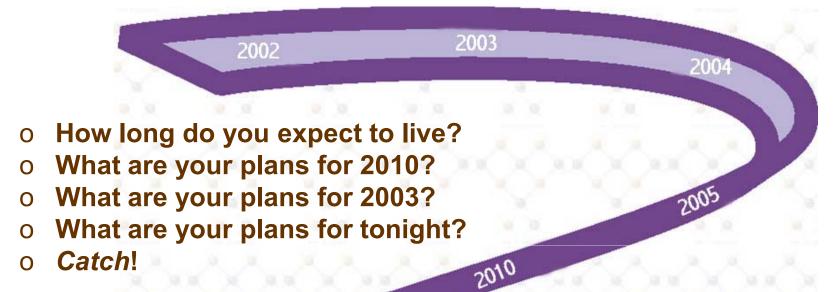
Actualization

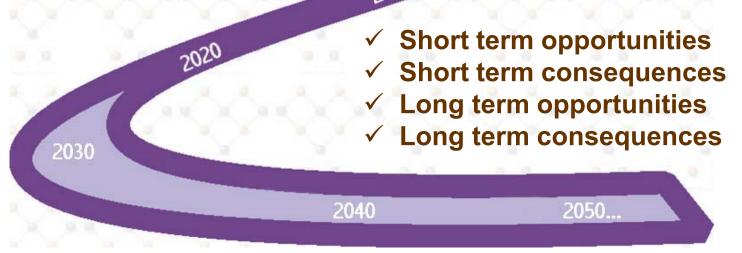
Domestic Intimate Violence Relationship Effective Substance Parenting Abuse Power & **Self Control** & Efficacy **Control Personal Psychological Finance** Insight





Future Orientation

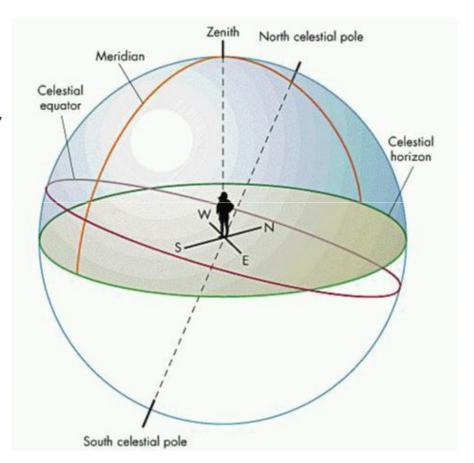






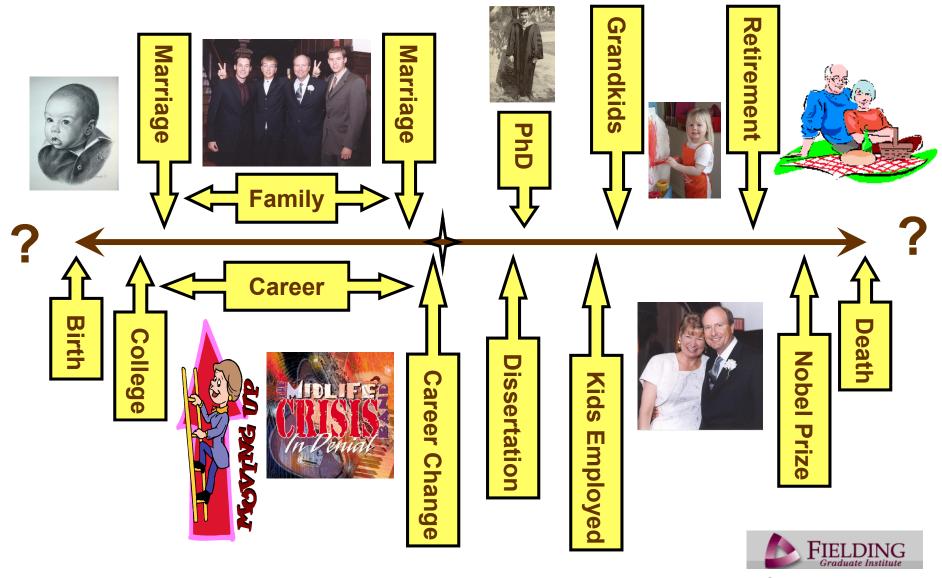
Planning Horizon Matters

The distance to our horizon defines the scope of our ambitions.





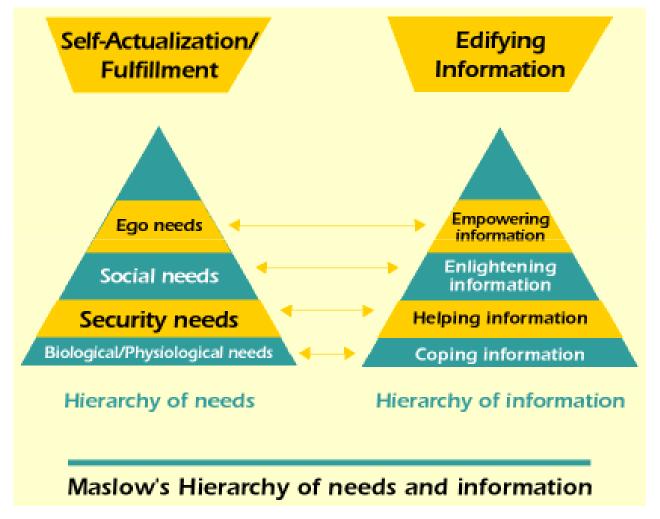
What are you up to?





Hierarchy of Goals





Violence not part of this picture





Batterer Action Protocol

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Domestic Intimate Violence Relationship Effective Substance Parenting Abuse Power & **Self Control** & Efficacy **Control Personal Psychological Finance** Insight





Intimate Relationship

- Admiration
- Intimacy
- Trust
- Support
- Understanding
- Tenderness
- Encouragement









What strategy works here?



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Integrity



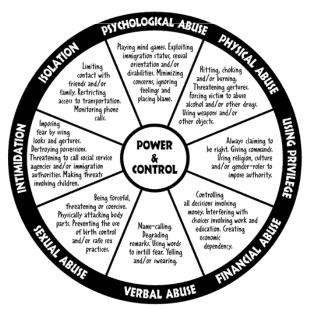
Do what you say you are going to do.



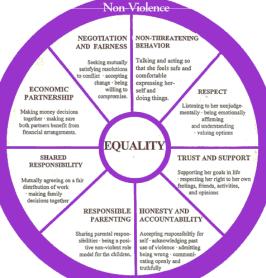


The Principle of Reciprocity









Non-Violence

Relationships are negotiated

