Game Developers Conference®

February 28 - March 4, 2011 Moscone Center, San Francisco www.GDConf.com







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"the way we **See**

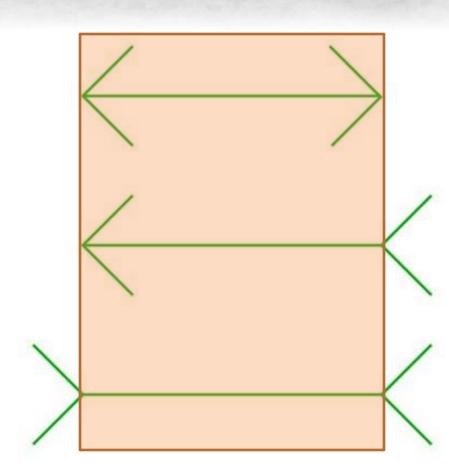
the problem

is the problem"

faulty thinking

becoming a better producer

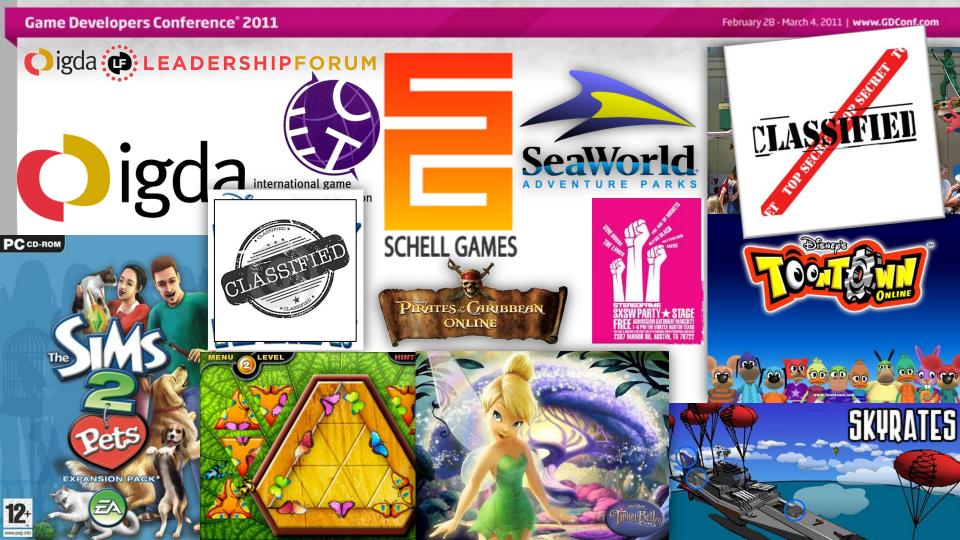
by **understanding** faults in human thought



"the first principle is that you must NOT fool yourself and you are the easiest person to fool.

so you have to be very **Careful** about that."

-richard feynman





1.external expectations

external expectations



Dr Mark Snyder 1

external expectations

people will **Play the role** that you **cast** them in

external expectations

other people's **expectations** about us directly **affect** how we **behave**

- 1. external expectations
- 2.Irrational escalation





PixieHollow.com

justifying increased investment in a decision based on prior investment

despite **evidence** suggesting that the decision was probably **Wrong**



previous investment should **never** be part of the equation

clean slate of the past

VS

clean slate of the future

- 1. external expectations
- 2. irrational escalation



Buehler et. al. 2002

tendency to underestimate the time, costs, and risks of future actions

& at the same time

overestimate the benefits of those actions

Mhàs

by thinking of everything we fool our self into thinking we've thought of everything



The Outside View

Deliberately avoid thinking about the special unique features of this project

- 1. external expectations
- 2. irrational escalation
- 3. the planning fallacy
- 4.the halo effect



warm and friendly

Physical appearance
Mannerisms
Content of the lecture

same guy
Identical content
cold and distant

students had **NO Clue**why they gave one lecturer higher ratings

most got it the **Wrong** Way around



idea that global evaluations about a person bleed over into judgments about their specific traits

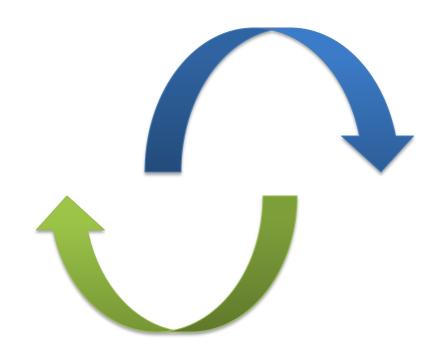
There are no devils or angels

"Given enough time People Will Surprise You"

- 1. external expectations
- 2. irrational escalation
- 3. the planning fallacy
- 4. the halo effect

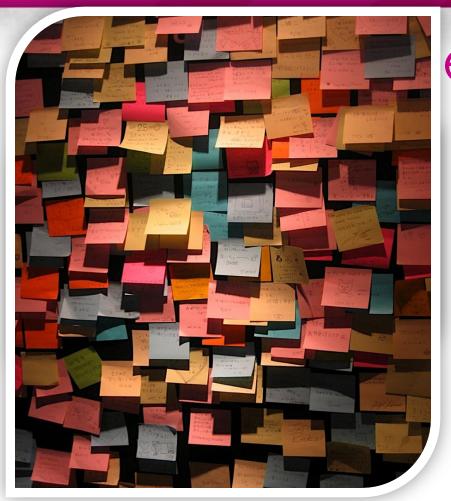
5.interloper effect

interloper effect



interloper effect

tendency to value third party consultation as **objective**, **confirming**, & without motive.



effect

- 1. external expectations
- 2. irrational escalation
- 3. the planning fallacy
- 4. the halo effect
- 5. interloper effect
- 6.self-serving bias



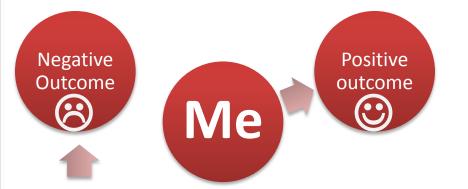
Wolosin, Sherman, and Till 1973

when you attribute **internal** factors to **positive** outcomes

&

external factors to negative outcomes.







External Causes

External Causes

interpreting unclear information

systemic bias

- 1. external expectations
- 2. irrational escalation
- 3. the planning fallacy
- 4. the halo effect
- 5. interloper effect
- 6. self-serving bias
- 7.illusion of control





tendency for people to believe they can **control** outcomes that they clearly have **no** influence on



Niro Sivanathan 2008

Cues from skill based situations

Choice familiarity Competition Involvement



Truth is more important then control

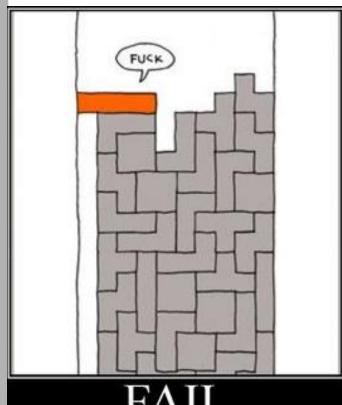
- 1. external expectations
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- 7. illusion of control

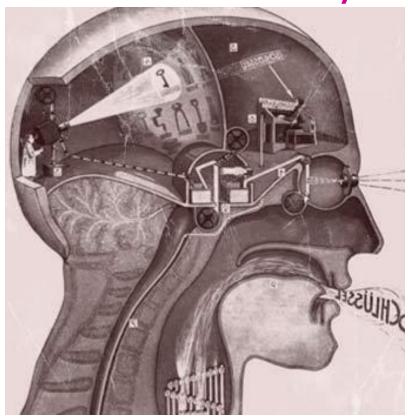


Tversky and Kahnemans 1991

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tendency to judge the **frequency**or likelihood of an event by the
ease with which relevant instances
Come to mind





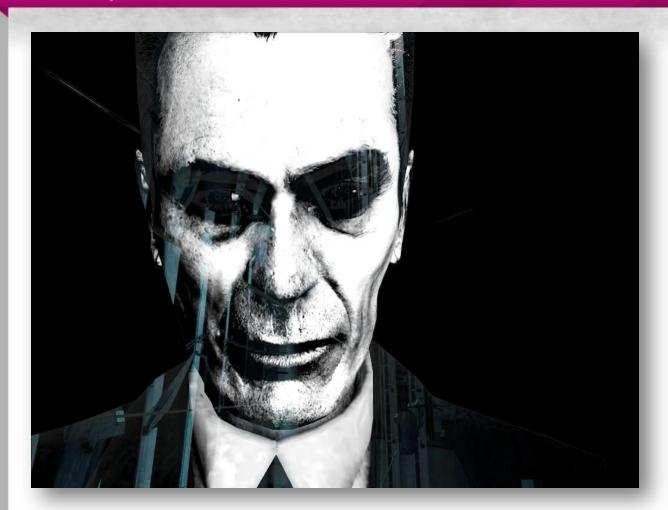
The problem

8 faults in human thought

Where to next

- 1. external expectations
- 2. irrational escalation
- 3. the planning fallacy
- 4. the halo effect
- 5. interloper effect
- 6. self-serving bias
- 7. illusion of control
- 8. availability heuristic









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thank you





recommended reading

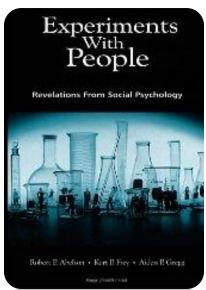
Thinking
AND
Deciding

FOURTH EDITION

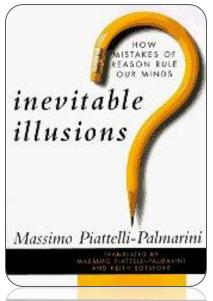
Jonathan Baron

BARROOK

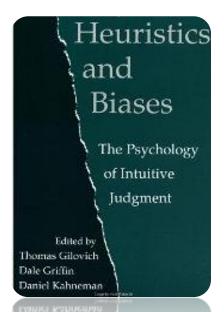
Jonathan Baron











Massimo Piattelli-Palmarini Inevitable Illusions: How Mistakes of Reason Rule Our Minds

ChangeMinds.ORG, How we change what others think

recommended reading

Baron, Jonathan, Thinking and deciding

Lesswrong.com, A community dedicated to refining the art of human rationality

Dale Griffin, Daniel Kahneman, Heuristics and biases: The psychology of intuitive judgment

Schacter, Daniel L., The Seven Sins of Memory: Insights From Psychology & Cognitive Neuroscience

Tversky, A., and Kahneman, D. Availability: a heuristic for judging frequency & probability