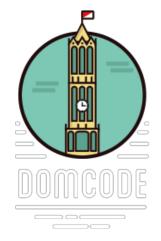


The Imitation Game

Studies in disability simulations





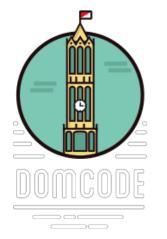
Job van Achterberg

Tech lead, tenon.io
@detonite



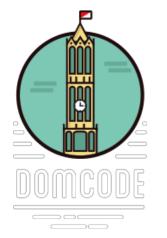
Inclusive Design and Accessibility







https://www.zorgenziekenhuis.nl/wp-content/uploads/2017/06/Blind-voor-1-dag-660x330.jpg











Small rant b/c e-mail.

Empathy exercises (goggles, gloves, etc) as a motivator to build things accessibly is the wrong approach. Build accessible products because it's the right thing to do.

Want to know what it's like to have [disability x]? Talk to people with [disability x].

7:32 AM - 16 Apr 2018

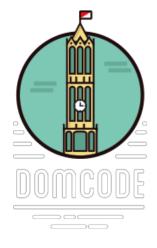


General Concepts in Full Scale Simulation: Getting Started

Michael A. Seropian, MD, FRCPC

Anesthesia & Analgesia, 2003





Simulation:

"an attempt to mimic reality"

General Concepts in Full Scale Simulation: Getting Started

Michael A. Seropian, MD, FRCPC

Anesthesia & Analgesia, 2003

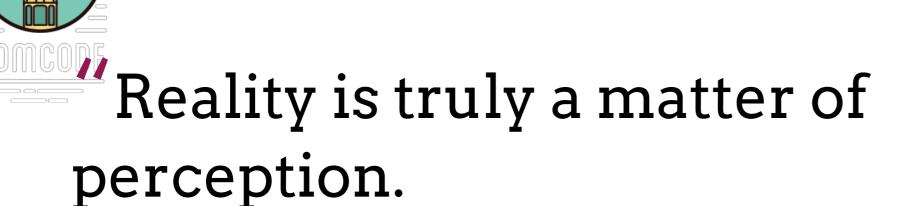




Stories







A fundamental assumption of simulation is that learning is enhanced when the environment seems realistic."

General Concepts in Full Scale Simulation: Getting Started

Michael A. Seropian, MD, FRCPC

Anesthesia & Analgesia, 2003



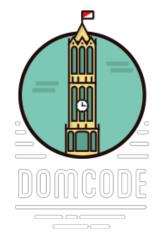


Role-Playing vs. Role-Taking: An Appeal for Clarification

Walter Coutu

American Sociological Review, 1951

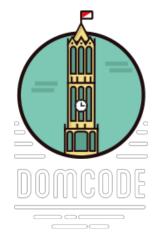




A simulation is an attempt to mimic reality in such a way that it is convincing on the sociological (how others perceive you) and psychological (how you perceive yourself) levels.







Helmet cover



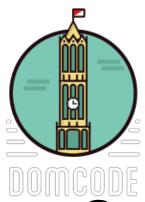




Smoke-filled room



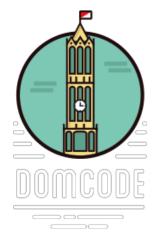
https://www.youtube.com/watch?v=22xwKesD_jk_(clipped)



Gas or wood fire



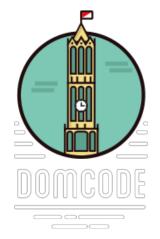
https://www.dhtc.nl/wp-content/uploads/2017/05/DHTC-Brandweer-480x250.jpg



Actors



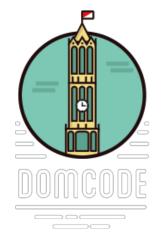
http://www.wleeman.nl/wordpress/wp-content/uploads/2016/04/LeW 5D3 17025.jpg



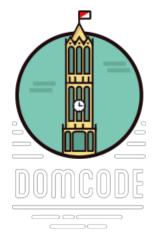
Why?

- Improvement / Measurement
- Development
- Training







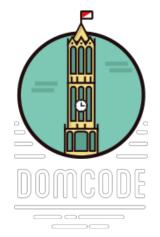


The Psychology of Attitudes

Alice Eagley and Shelly Chaiken

Harcourt Brace Jovanovich College Publishers, 1993

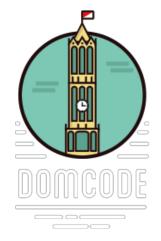




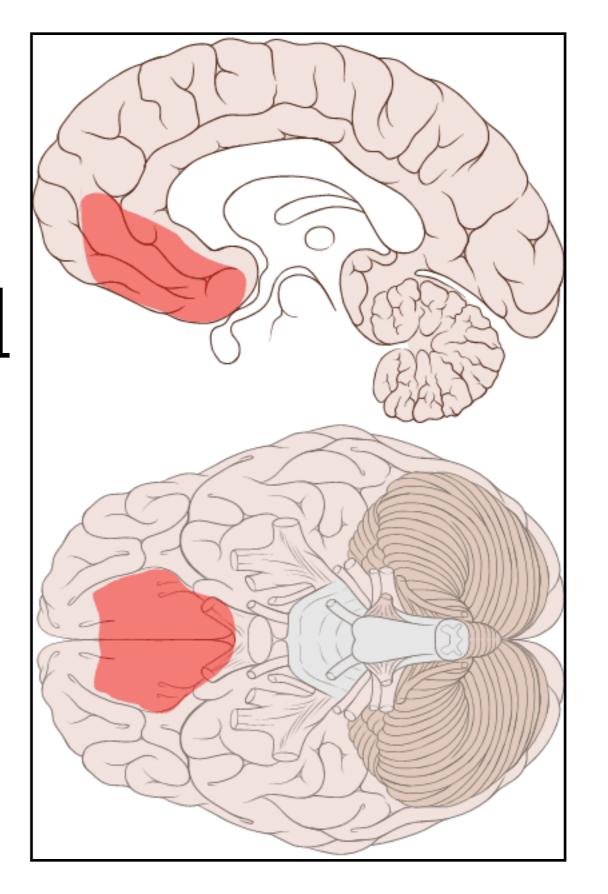
Choice



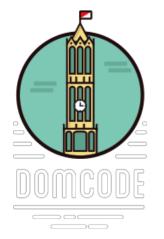




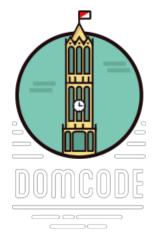
Ventromedial Prefrontal Cortex





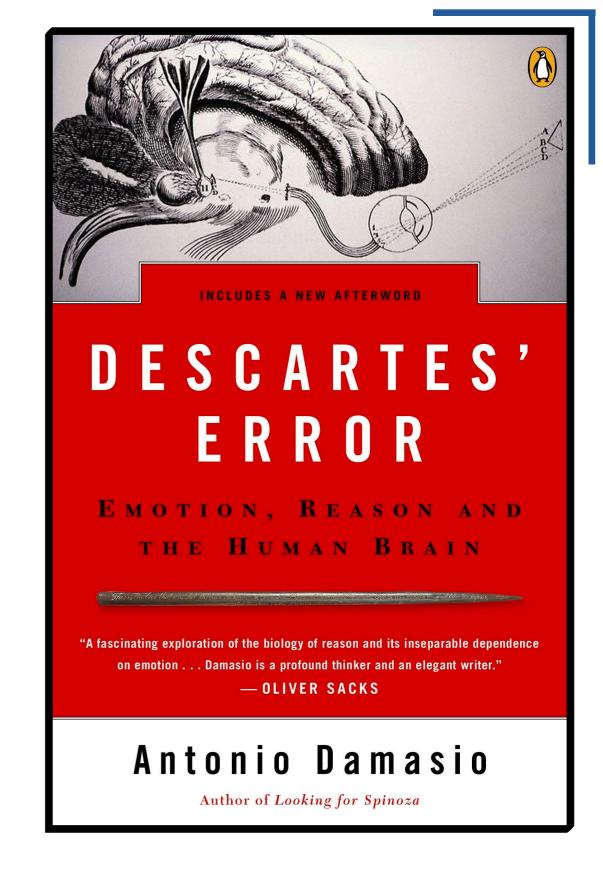






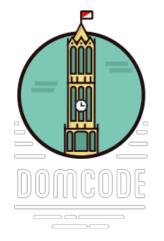
Descartes' Error

Antonio Damasio 2005



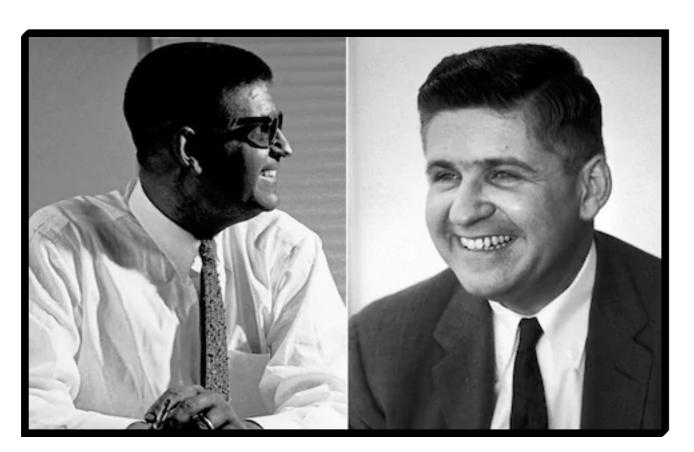
Somatic Marker Hypothesis

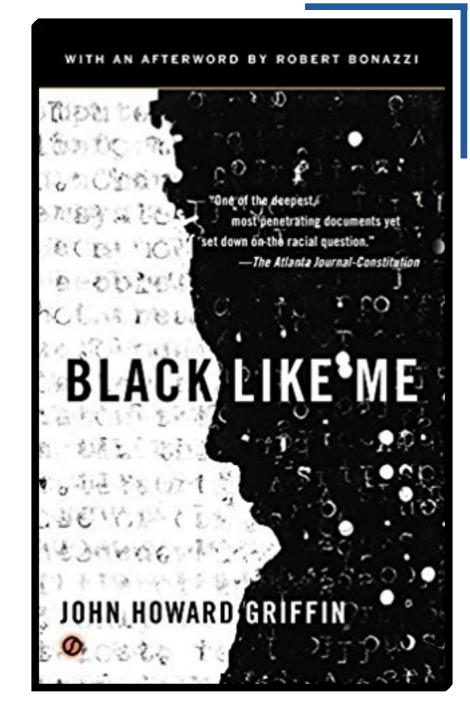




Black Like Me

John Howard Griffin
1969





https://images-na.ssl-images-amazon.com/images/I/51rd5llYEEL._SX308_BO1,204,203,200_.jpg





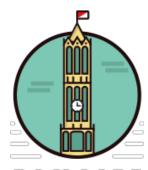
The Influence of Role Playing on Opinion Change

Irving L. Janis & Bert T. King, Yale University

Journal of Abnormal Psychology, 1954





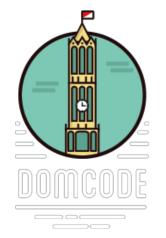


Influence of Fantasy Ability on Attitude Change Through Role Playing

Alan C. Elms, Southern Methodist University

Journal of Personality and Social Psychology, 1966





"role playing resulted in greater mean positive attitude change than did simply listening to the role player's arguments."

Influence of
Fantasy Ability on
Attitude Change
Through Role
Playing

Alan C. Elms, Southern Methodist University

Journal of Personality and Social Psychology, 1966

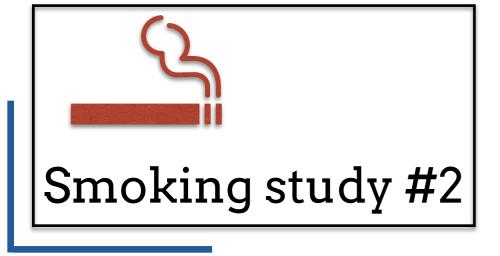




The Effects of Emotional Role Playing on Desire to Modify Smoking Habits

Leon Mann, University of Melbourne, Australia

Journal of Experimental Social Psychology, 1967



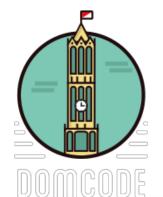


A Follow-Up Study on the Long-Term Effects of Emotional Role Playing

Leon Mann (Harvard) and Irving L. Janis (Yale)

Journal of Personality and Social Psychology, 1968







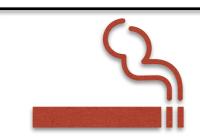
Smoking study #1



Debate study



Smoking study #2



Smoking study #3

Emotional

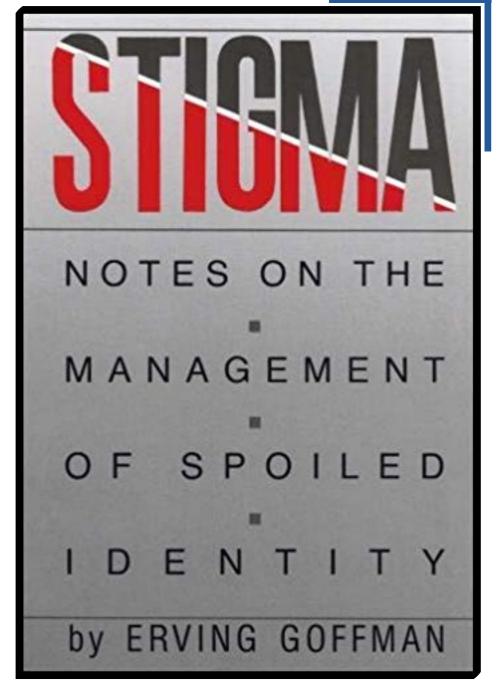


Passive





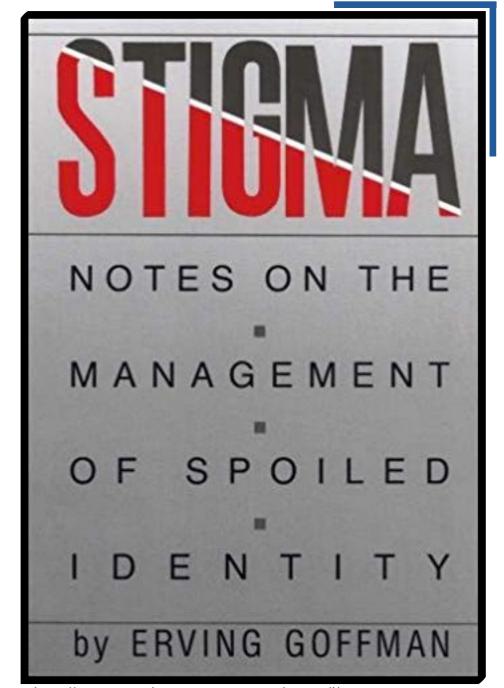
Erving Goffman, 1963



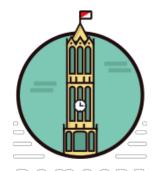
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"a process by which the reaction of others spoils normal identity"



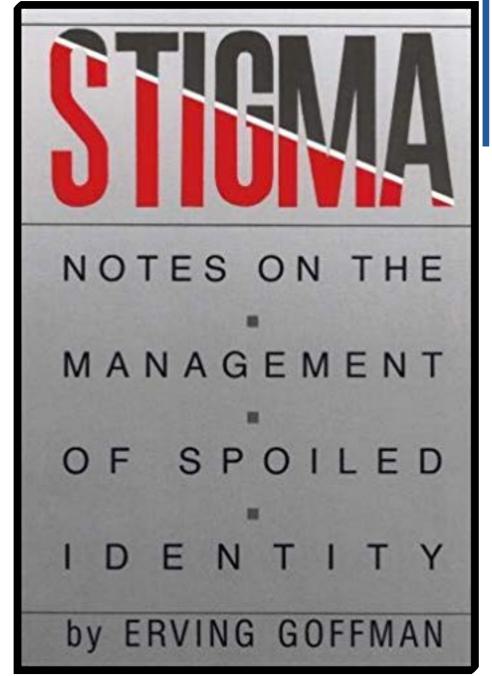
https://images-na.ssl-images-amazon.com/images/l/417K2LICU1L_SX341_BO1,204,203,200_jpg



"I also learned that the cripple must be careful not to act differently from what people expect him to do.

Above all they expect the cripple to be crippled; to be disabled and helpless: to be inferior to themselves, and they will become suspicious and insecure if the cripple falls short of these expectations.

It is rather strange, but the cripple has to play the part of the cripple, just as many women have to be what the men expect them to be, just women; and the Negroes often have to act like clowns in front of the "superior" white race, so that the white man shall not be frightened by his black brother."



https://images-na.ssl-images-amazon.com/images/l/417K2LICU1L_SX341_BO1,204,203,200_jpg

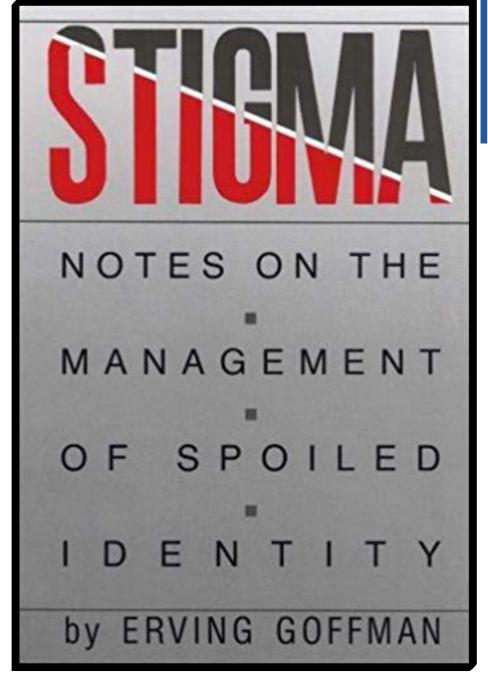




"I once knew a dwarf who was a very pathetic example of this, indeed. She was very small, about four feet tall, and she was extremely well educated.

In front of people, however, she was very careful not to be anything other than "the dwarf," and she played the part of the fool with the same mocking laughter and the same quick, funny movements that have been the characteristics of fools ever since the royal courts of the Middle Ages.

Only when she was among friends, she could throw away her cap and bells and dare to be the woman she really was: intelligent, sad, and very lonely."



https://images-na.ssl-images-amazon.com/images/l/417K2LICU1L_SX341_BO1,204,203,200_jpg

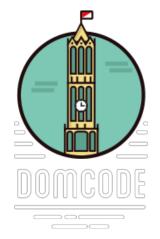


Emotional Role Playing, Attitude Change, and Attraction Towards a Disabled Person

Gerald L. Clore & Katharine McMillan Jeffery University of Illinois

Journal of Personality and Social Psychology, 1972



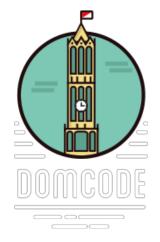


"I am surprised what effect this had on me. I was alone the entire time, I saw no one that I knew, so perhaps this made me take it all very seriously.

All I know is that my eyes filled up with tears coming back up alone in that elevator"

Emotional Role Playing, Attitude Change, and Attraction Towards a Disabled Person Gerald L. Clore & Katharine McMillan Jeffery University of Illinois



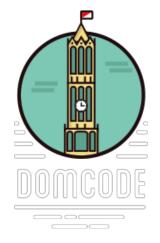


"The looks that I received were very interesting and were consistently the same.

People look out of the corner of their eyes and then a downward glance past my legs. They seem a bit embarrassed"

Emotional Role Playing, Attitude Change, and Attraction Towards a Disabled Person Gerald L. Clore & Katharine McMillan Jeffery University of Illinois

2019



"My arms had started to bother me, and it was hard to go in a straight line.

When I got to the ramp at the union, I started to go up and realized I was never going to make it."

Emotional Role Playing, Attitude Change, and Attraction Towards a Disabled Person Gerald L. Clore & Katharine McMillan Jeffery University of Illinois

2019



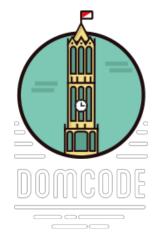
Empathy and Attitudes: Can Feeling for a Member of a Stigmatized Group Improve Feelings Towards the Group?

C. Daniel Batson, Marina P. Polycarpou, Eddie Harmon-Jones, Heidi J. Imhoff, Erin C. Mitchener, Lori L. Bednar, Tricia R. Klein, & Loft Highberger

University of Kansas







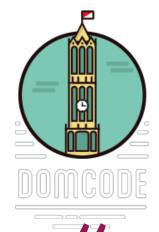
"attitudes towards stigmatized groups are notoriously hard to change"

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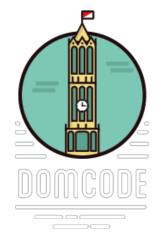
"Only if the stereotype-inconsistent information is widely dispersed throughout the group, and we are made aware of this dispersion, is it likely to change our stereotype"

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University of Kansas



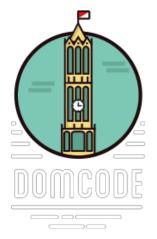


Cognitive Processes in the Revision of Stereotypic Beliefs

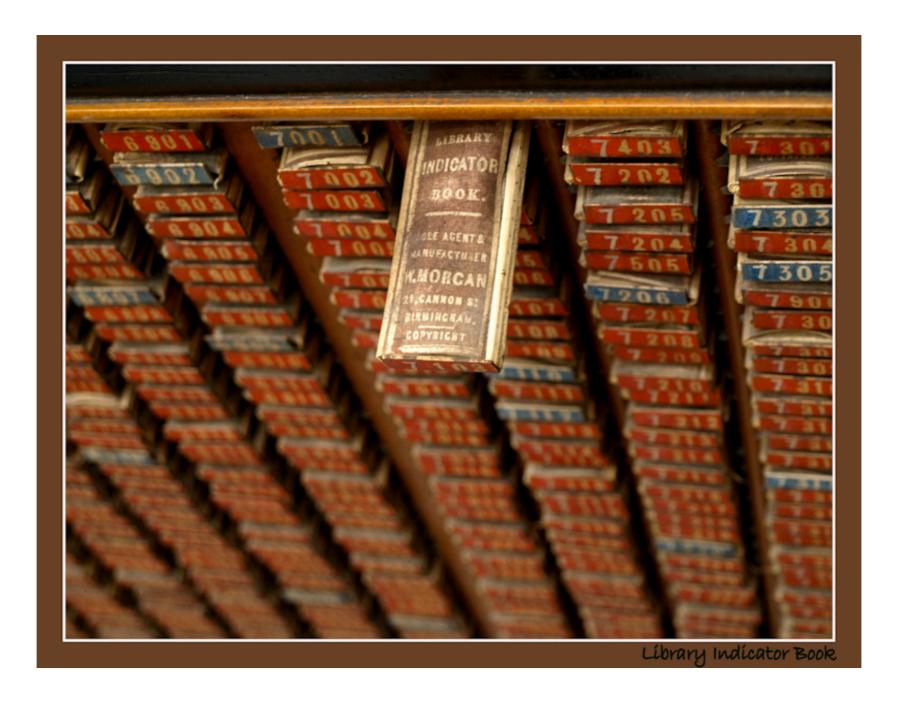
Reneé Weber and Jennifer Crocker

Northwestern University



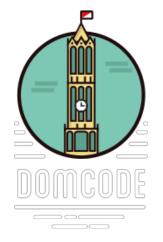


Bookkeeping model

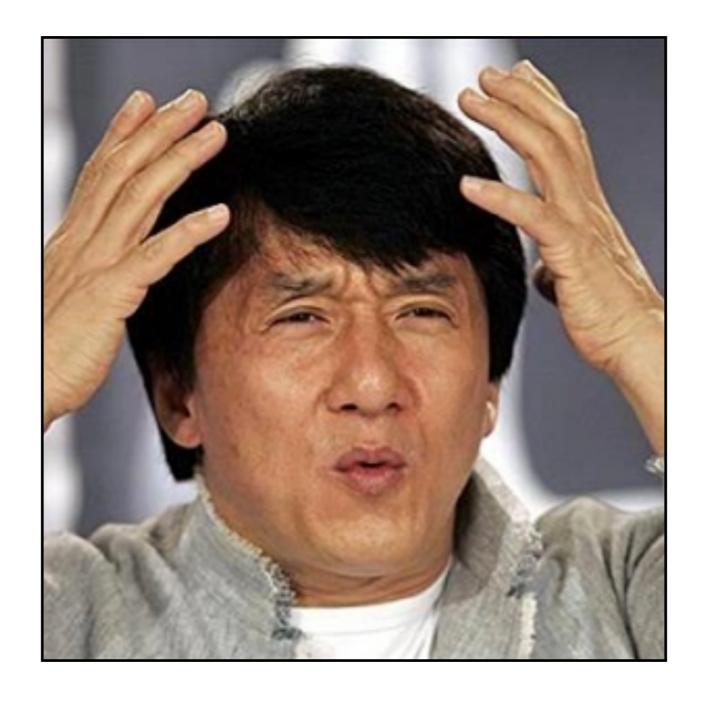


Cognitive Processes in the Revision of Stereotypic Beliefs



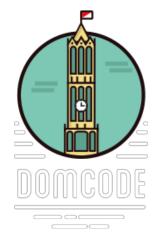


Conversion model



Cognitive Processes in the Revision of Stereotypic Beliefs



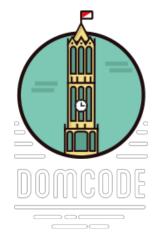


Subtyping model



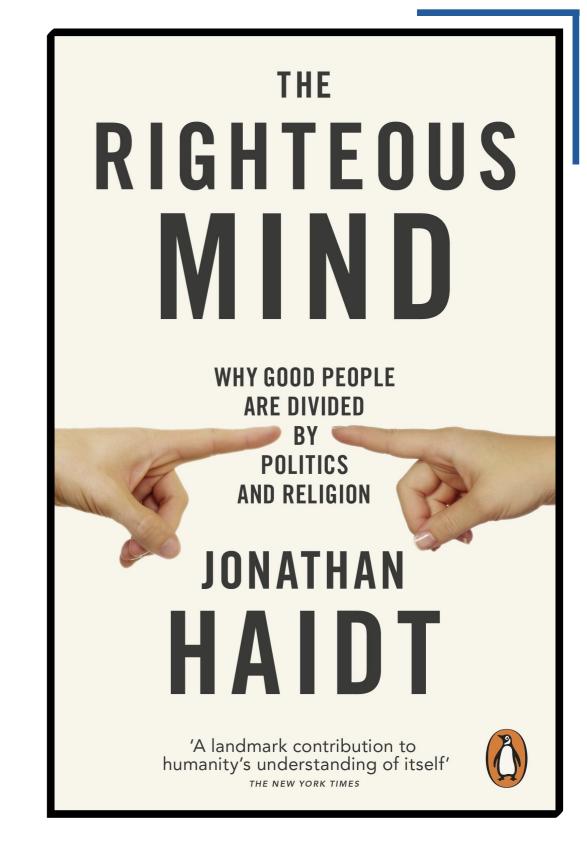
Cognitive Processes in the Revision of Stereotypic Beliefs





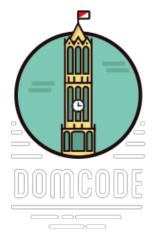
The Righteous Mind

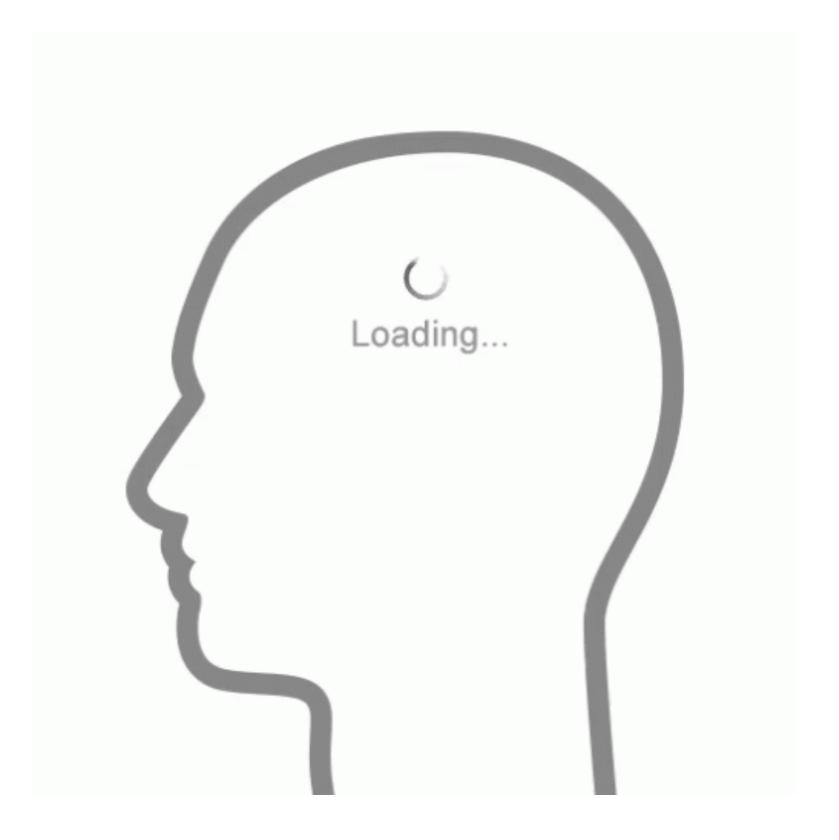
Jonathan Haidt 2013



The Rider and the Elephant









Does Perspective taking Increase or Decrease Stereotyping? The Role of Need for Cognitive Closure

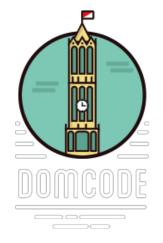
Shan Sun, Bin Zuo, Yang Wu & Fangfang Wen

School of Psychology, Center for Social Psychology Research, Central China Normal University



Personality and Individual Differences, 2016





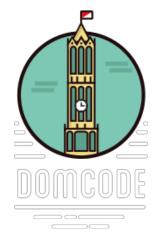
Smarter Than We Think: When Our Brains Detect That We Are Biased

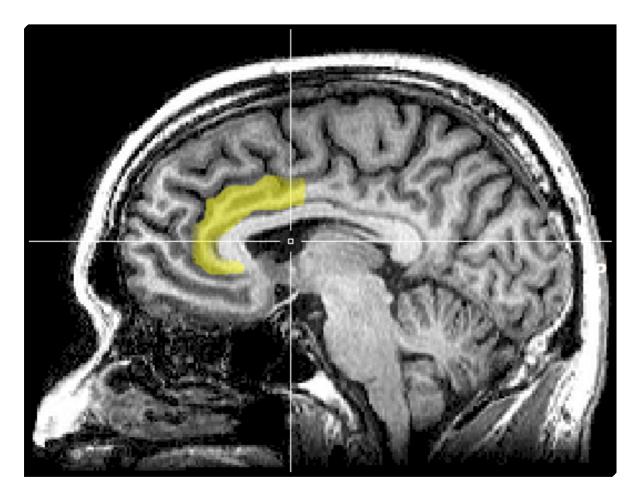
Wim De Neys, Oshin Vartanian and Vinod Goel

University of Leuven and York University

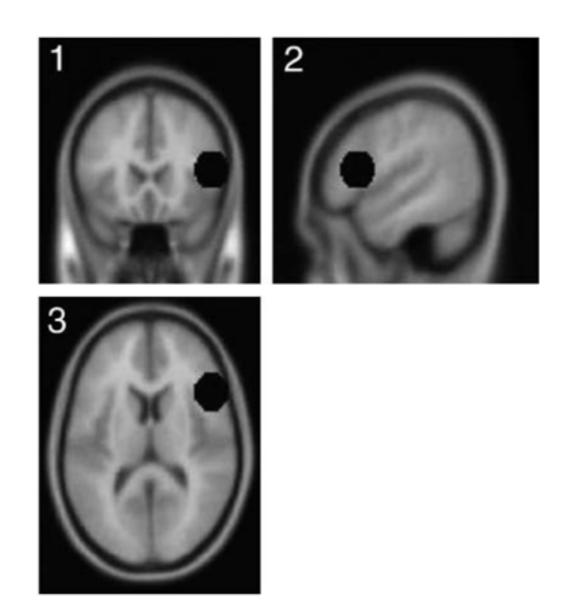
Psychological Science, 2008







Anterior Cingulate Cortex



Right Lateral Prefrontal Cortex

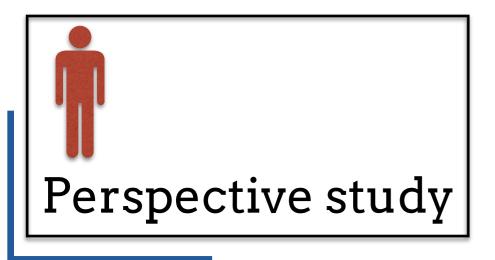




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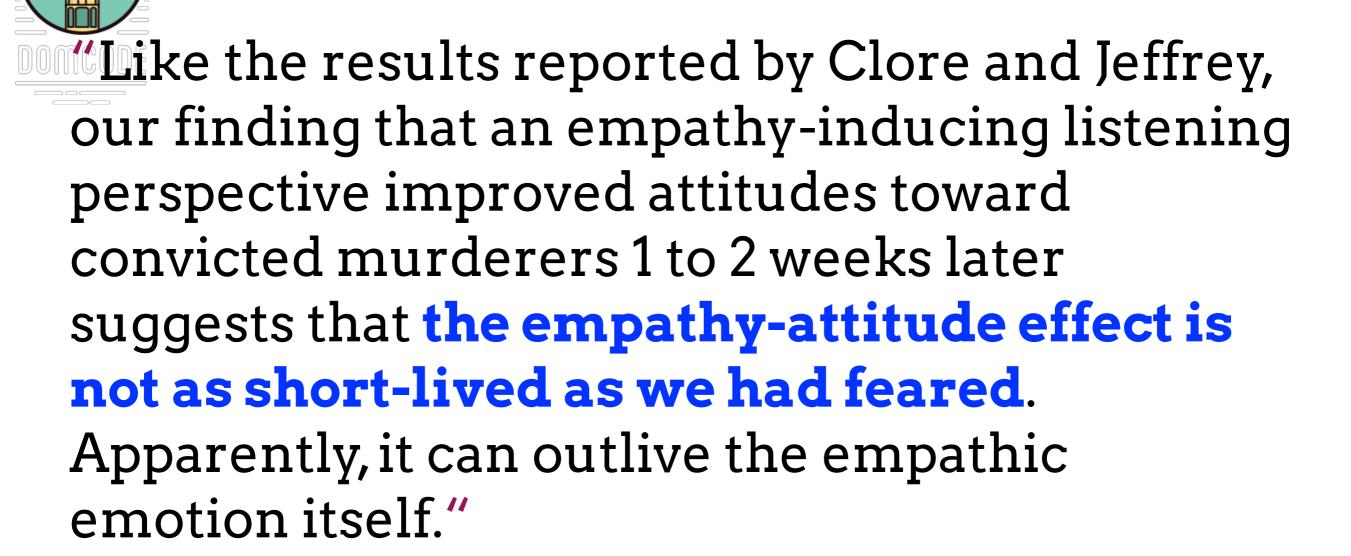
Empathy and Attitudes: Can Feeling for a Member of a Stigmatized Group Improve Feelings Towards the Group?

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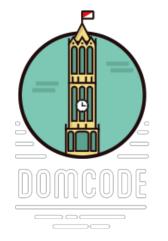
"Our emotion-based approach to attitude change did not seem vulnerable to the subcategorization effects that often plague cognitive approaches, such as learning stereotype-inconsistent information about an individual group member."

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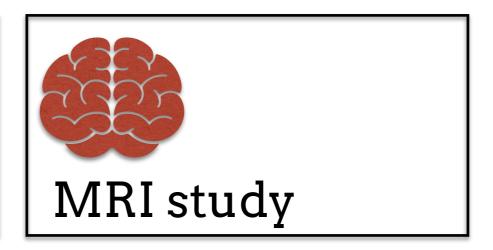


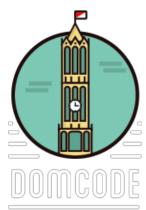








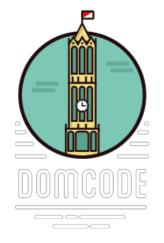




The Coping Framework and Attitude Change: A Guide to Constructive Role Playing

Beatrice A. Wright



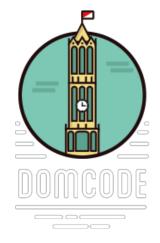


"My concern is that role-playing can enhance, not only understanding of some problems, but also pervasive pity and devaluation."

The Coping
Framework and
Attitude Change: A
Guide to Constructive
Role Playing

Beatrice A. Wright



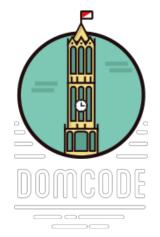


"Actually, feelings of inferiority, lack of confidence, and helplessness hardly need roleplaying, for these are common stereotypes of people with disabilities held by the outsider."

The Coping
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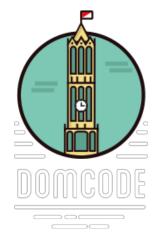


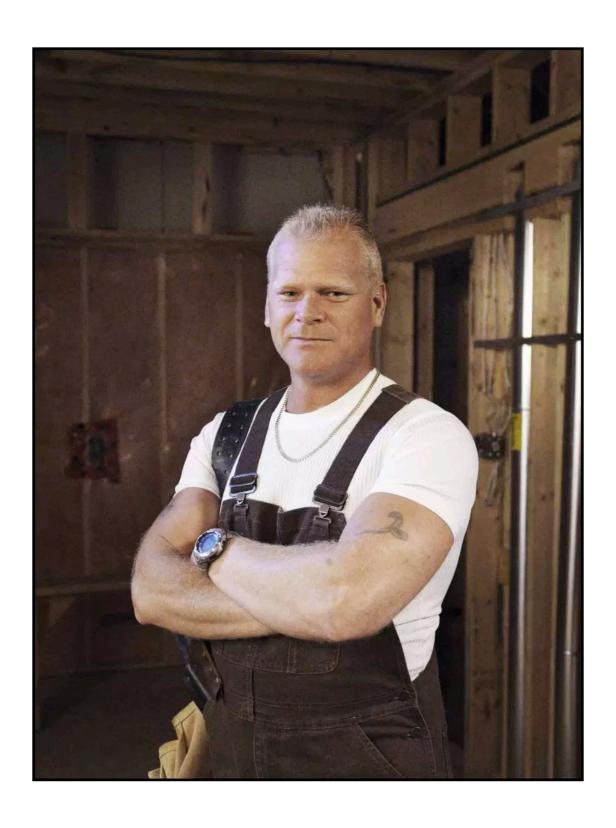
Constructively Guided Role-Playing

The Coping
Framework and
Attitude Change: A
Guide to Constructive
Role Playing

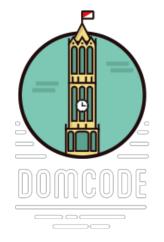
Beatrice A. Wright









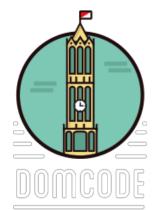


- Assertive role-playing
- · Role-reversal

The Coping
Framework and
Attitude Change: A
Guide to Constructive
Role Playing

Beatrice A. Wright





Stumbling in Their Shoes: Disability Simulations Reduce Judged Capabilities of Disabled People

Arielle M. Silverman, Jason D. Gwinn & Leaf van Boven

Social Psychological and Personality Science, 2014







Disability Simulations: Logical, Methodological and Ethical Issues

Gary Kiger, Department of Sociology, Utah State University

Disability, Handicap & Society, 1992





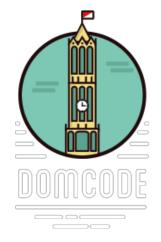
"What we want to change are not people's attitudes, but their behaviors. Will a disability simulation change how participants interact with persons with disabilities in the future? This is the central question and it is a difficult problem to address in research directed toward measuring a simulation's effectiveness."

Disability
Simulations: Logical,
Methodological and
Ethical Issues

Gary Kiger

Disability, Handicap & Society, 1992





"Additionally, going on a 'blind walk' for an hour does not give a participant the 'feel' for experiences of discrimination, rejection, or pity that might be directed toward someone who is visually impaired."

Disability
Simulations: Logical,
Methodological and
Ethical Issues

Gary Kiger

Disability, Handicap & Society, 1992





Crip for a Day: The Unintended Negative Consequences of Disability Simulations

Michelle R. Nario-Redmond, Dobromir Gospodinov, and Angela Cobb

Hiram College



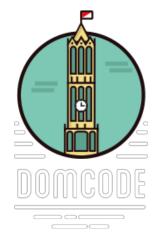




"Simulating disabilities promotes distress and fails to improve attitudes toward disabled people, undermining efforts to improve integration even while participants report more empathetic concern and 'understanding of what the disability experience is like.'"

Crip for a Day: The Unintended Negative Consequences of Disability Simulations

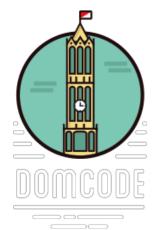
Michelle R. Nario-Redmond, Dobromir Gospodinov, and Angela Cobb



Conclusion

On the effectiveness of disability simulations





Thank you.

