



18

The Highest Functions of Nervous System - Psychological and Social Aspects of Brain Activity II



√The problem with effective control of the neocortex

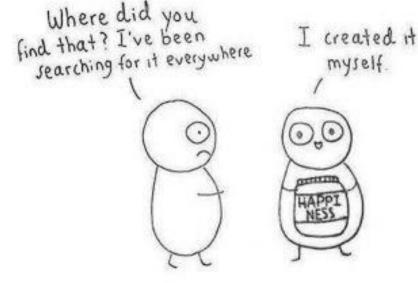




√The problem with effective control of the neocortex







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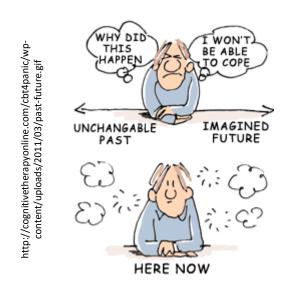








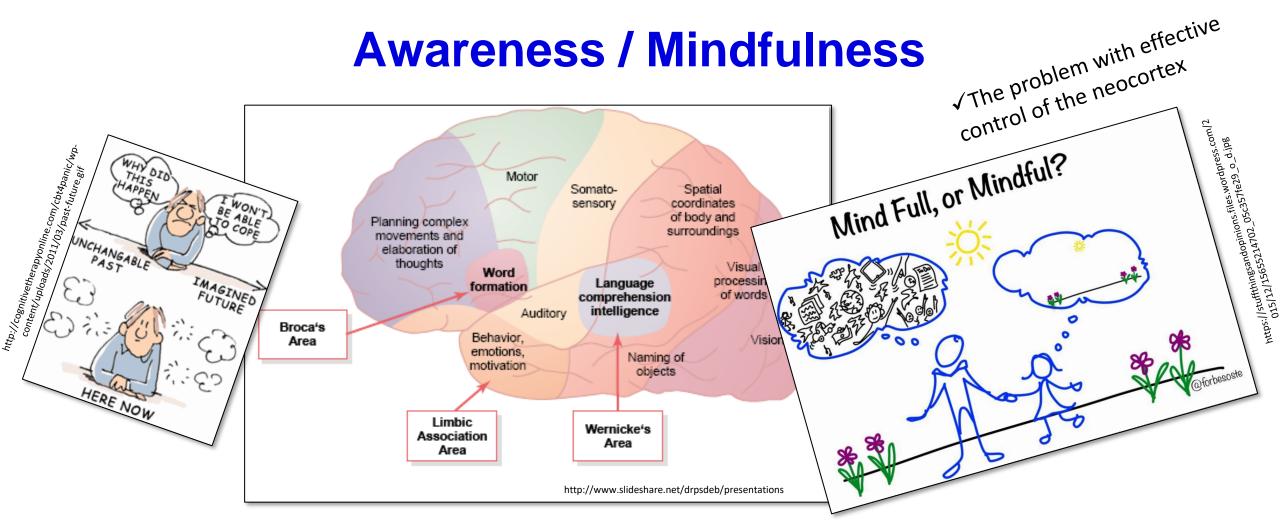
√The problem with effective control of the neocortex





"When you are hungry, eat; when you are tired, sleep" Zen Budhist quote





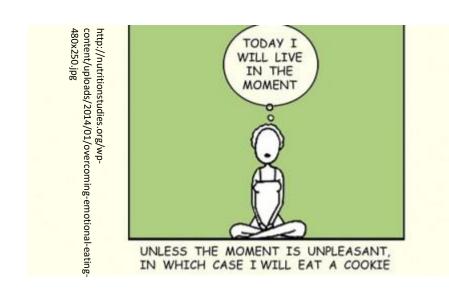
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The problem with effective of the neocortex

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IS MINUTES OF CARDIO, 15 MINUTES OF WEIGHTS, AND AN HOUR OF TALKING MYSELF INTO IT.

MUNI MED

Future Me The problem with effective problem **Past Me Present Me** Damn it! Why are you Why didn't Past Me Ugh, so much work two such lazy bums? already do this? Oh to do... I'll do it later. Stop leaving me all the well, I'm sure Future work! Me will get it done. Work passes forward **Complaints pass backward** WellingtonGrey.net



Procrastionation

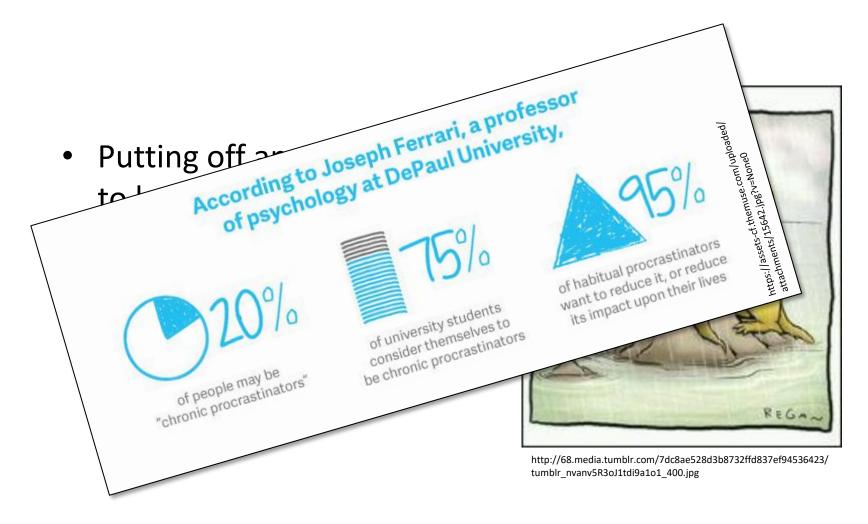
- Putting off an action to later time
- It is not a laziness!



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Procrastionation





Procrastination

A critical role of the limbic system

Physiologically, it's a struggle between two parts of the brain:

Prefrontal cortex:

controls problem solving and planning

Limbic system:

craves immediate gratification

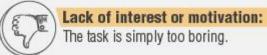
Why do people procrastinate?



Fear of failure: You won't settle for anything less than perfection.



Skill deficit: You don't know how to complete the task.





It can ...

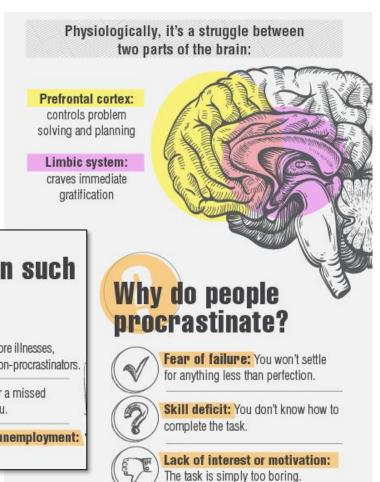
... hurt your health: Chronic procrastinators suffer more illnesses, get less exercise, sleep less and drink more alcohol than non-procrastinators.

... stress you out: The resulting deadline crunch (or a missed deadline) takes a toll on both you and those around you.

... lead to lower salaries and a higher risk of unemployment:

No one gets ahead by dropping deadlines.

- Intelligence
 - ➤ A higher intelligence is associated with a better skill of rationalization



Why is procrastination such a bad idea?

It can ...

... hurt your health: Chronic procrastinators suffer more illnesses, get less exercise, sleep less and drink more alcohol than non-procrastinators.

... stress you out: The resulting deadline crunch (or a missed deadline) takes a toll on both you and those around you.

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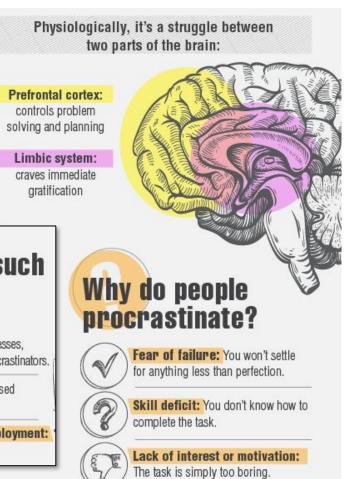
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Intelligence

> A higher intelligence is associated with a better skill of rationalization

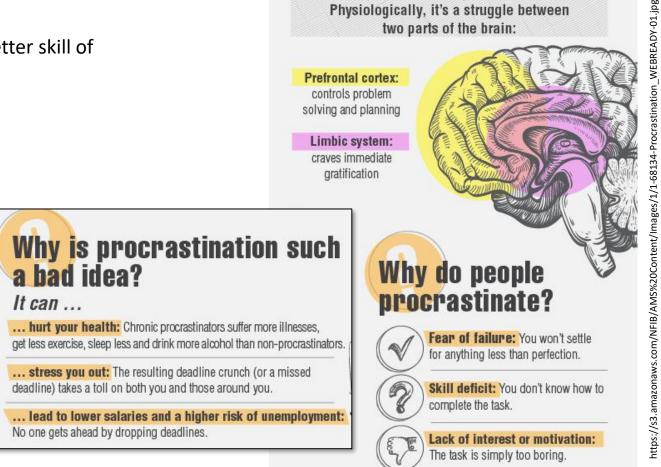
✓ Fatigue✓ Hunger✓ Other stressors Why is procrastination such a bad idea? It can hurt your health: Chronic procrastinators suffer more illnesses, get less exercise, sleep less and drink more alcohol than non-procrastinators. ... stress you out: The resulting deadline crunch (or a missed deadline) takes a toll on both you and those around you. ... lead to lower salaries and a higher risk of unemployment: No one gets ahead by dropping deadlines.



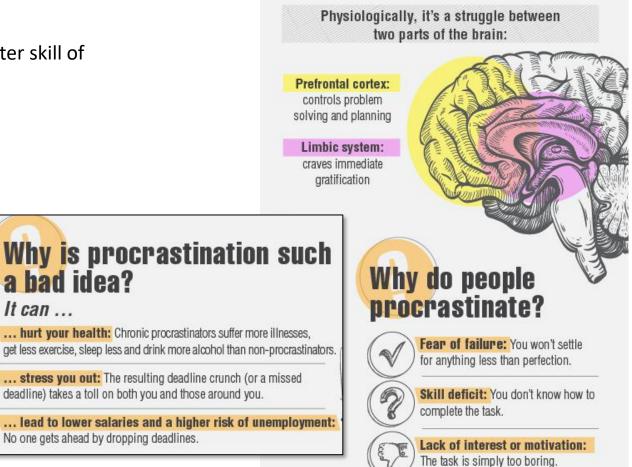


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- Intelligence
 - ➤ A higher intelligence is associated with a better skill of rationalization
- A task has low meaning
 - ➤ Why to do it?
- A task is boring
 - > I do not like it
- A task is difficult
 - How to start?
- A task is frustrating
 - I cannot move on...



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- Bad organization
 - I have to do it ina a different way
- Lacking in rewards(mainly intrinsic)
 - > It does not bring me anything





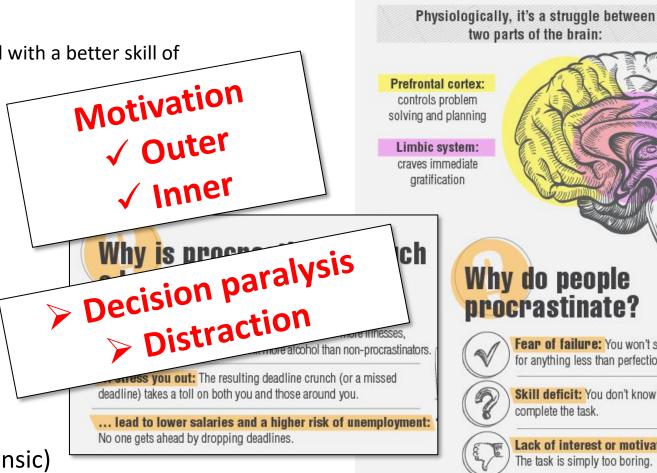
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two parts of the brain:

Why do people

procrastinate?

complete the task.

Fear of failure: You won't settle

Skill deficit: You don't know how to

Lack of interest or motivation:

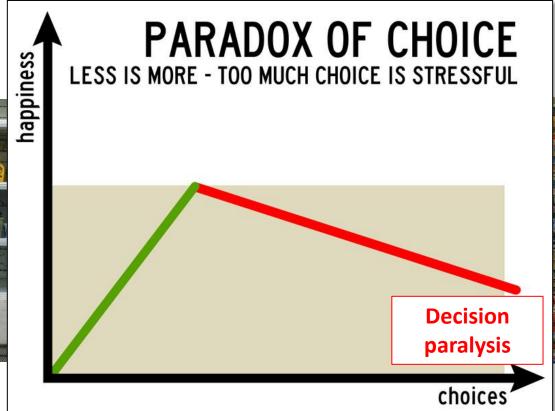
The task is simply too boring.

for anything less than perfection.

More choice does not make us more happy



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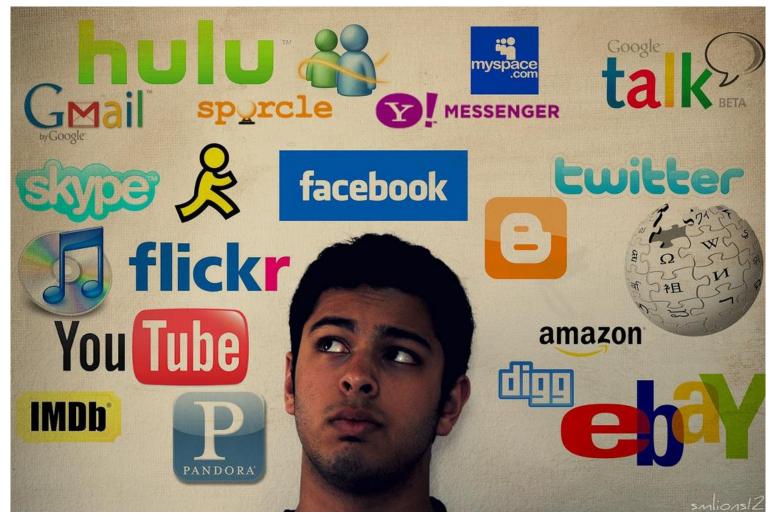
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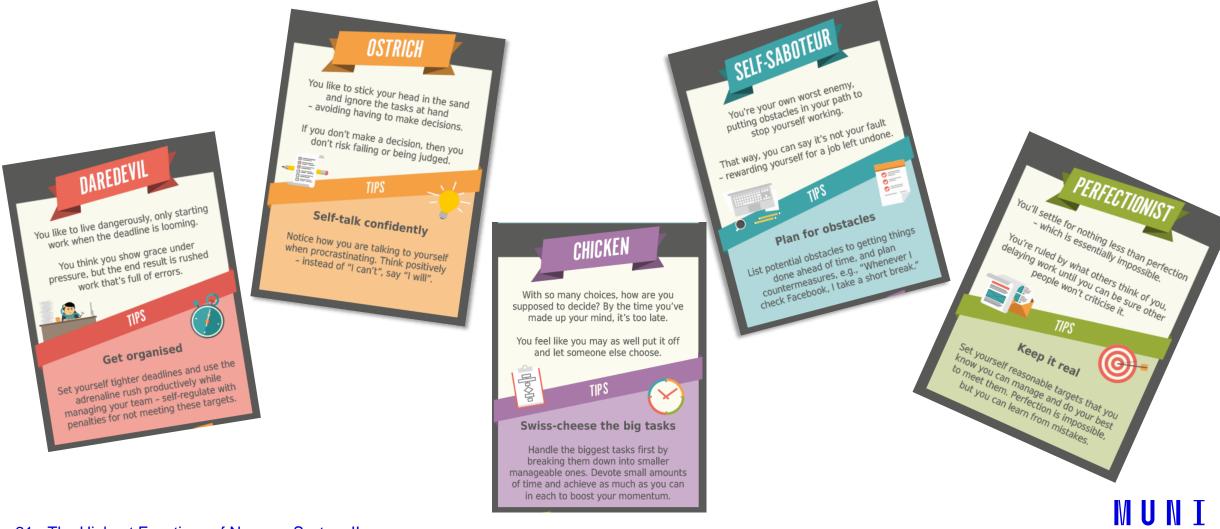


Distraction





Procrastination



The Highest Functions of Nervous System II

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MED

PROCRASTINATION is like a Credit Card: is like a Credit Card: it's a lot of Fun until you get the Bill. until you get the DZDD 1231 9434 1200 0200

http://howtobehappy.

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Procrastination

A critical role of the limbic system Fear of the outcome Sasination WHAT IS PROCRASTINATION? **BEHAVIORAL** You procrastinate when you put off things that you should be focusing on right now, usually in PANIC favor of doing something that you're more Perfectionism comfortable doing. INTENDED Are you a procrastinator? BEHAVIOR Filling your day with low priority tasks? ENACTED HOW OTHER PEOPLE JUDGE MY ABILITIES **BEHAVIOR** ATTEMPTING TO MAKE A DECISION Waiting for the "right mood"? Rebellion and Lack of motivation Reading e-mails several times laziness without starting to work on them? 回 **EFFECTS OF PROCRASTINATION** Helplessness in the face of Lack of focus complexity To what extent is Tension procrastination having Headaches a NEGATIVE IMPACT on Sleep difficulties your happiness? Fatigue or ultra-active Extreme negative effect **HOW TO OVERCOME?** Quite a bit or Very much THINK ALTERNATIVELY! 18 Anxiety Spiritual emptiness Self-critical Diminished creativity Lacking positive outlook Helplessness Keep a TO-DO LIST Break the project into **REWARD** yourself Stunted hope and humour Low self-esteem MANAGEABLE TASKS Ask SOMEONE ELSE to Use an Urgent / Important Start with some QUICK check up on you Matrix SMALL tasks Identify the UNPLEASANT Set yourself The basic principle is Isolating yourself Reduced effectiveness consequences of NOT doing TIME-BOUND GOALS REFRAMING Tense relationships Missed career opportunities Less aware of others Increased likelihood of mistakes http://serendip.brvnmawr.edu/bb/neuro/neuro02/web1/imarvasis.html



http://www.marcandangel.com/2010/11/22/7-common-causes-and-proven-cures-for-procrastination/

PROCRASTINATION is like a Credit Card: is like a Credit Card: it's a lot of Fun until you get the Bill. until you get the DZDD 1231 9434 1200 0200

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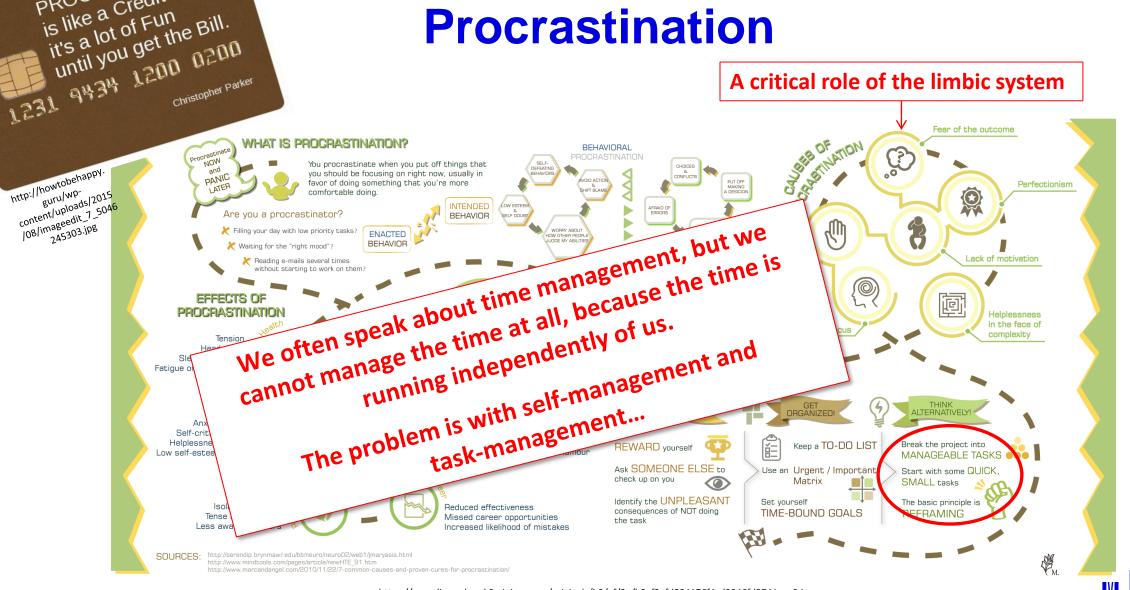
Procrastination

A critical role of the limbic system Fear of the outcome Sasination Perfectionism ATTEMPTING TO MAKE A DECISION Rebellion and Lack of motivation laziness 回 Helplessness in the face of Lack of focus complexity THINK ALTERNATIVELY!





PROCRASTINATION is like a Credit Card: is lot of Fun it's a lot of Fun testil representation point testil representation until you get the Bill. 1531 8434 1500 0500

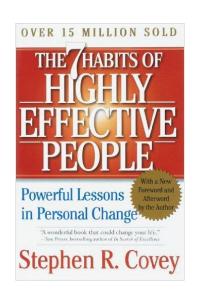








Stephen Covey – Quadrant system



	Urgent Quad I		Not Urgent Quad II	
Important				
	• Crisis • Pressing Problems • Deadline Driven	Results Stress Burn-out Crisis management Always putting out fires	Activities • Prevention, capability improvement • Relationship building • Recognizing new opportunities • Planning, recreation	Results Vision, perspective Balance Discipline Control Few crisis
	Quad III		Quad IV	
Not Important	Activities Interruptions, some callers Some email, some reports Some meetings Proximate, pressing matters Popular activities	Results Short term focus Crisis management Reputation – chameleon character See goals/ plans as worthless Feel victimized, out of control Shallow or broken relationships	Activities Trivia, busy work Some email Personal social media Some phone calls Time wasters Pleasant activities	Results Total irresponsibility Fired from jobs Dependent on others or institutions for basics

http://thecontextofthings.com/wp-content/uploads/2015/10/covey-4-quad-1.jpg



Pomodoro technique





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http://smartlifeblog.com/wp-content/uploads/ 2015/03/pomodoro-timer.jpg

#3

Brain Hacks for beating procrastination

1. Focus on the PROCESS not the Product.

Tips: When studying, avoid thinking about how many pages you have to write or problems to solve as that brings on the pain that leads to procrastination. Rather, calmly put the effort into doing the work. No need to grasp or finish everything in one session.

- 2. Distractions will happen, so accept them and train yourself to move past them quickly. Tips: Find a quiet space, use noise-cancelling headphones.
- 3. Plan: Write down 3-6 tasks you want to accomplish.

Tips: Do it the night before, so your mind starts working on them while you sleep. Plan your breaks and quitting time too. It's okay if you did not finish all tasks if you gave it

your best.

4. Trust in your new system and yourself.
Tips: Get support when you get stressed out or overwhelmed. Seek out friends who are successful, teachers, school counselors and ask for help.



5. Use The POMODORO Technique



START

SET A TIMER TO 25 MINUTES. Let everyone (Fam, BF, GF etc.) know what you are doing, so they don't interrupt or get upset if you don't respond to them.



CONTINUE

FOCUS ON ONE TASK. Study. Write. Do math. Whatever. NO INTERRUPTIONS. No social media, gaming, texting etc.



REWARD YOURSELF. After successfully completing 25 minutes of hardcore awesomeness (studying, working etc.) do something you enjoy for 5 minutes and repeat the process.

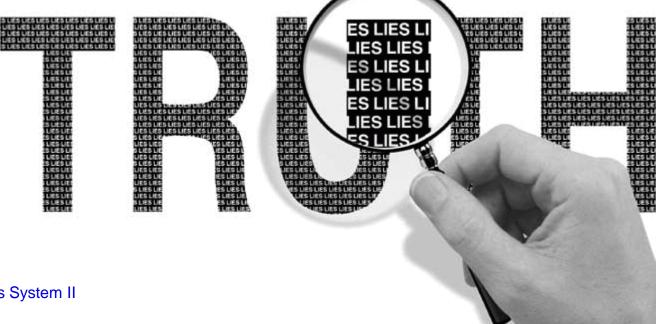
YOU CAN BEAT PROCRASTINATION!



Rationalization

√ The conflict between the limbic system and the neocortex

 defense mechanism in which controversial behaviors or feelings are justified and explained in a seemingly rational or logical manner to avoid the true explanation, and are made consciously tolerable—or even admirable and superior—by plausible means (wikipedia)





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- Selfmanipulation vs manipulation of others
- Intentional vs unintentional

"Why do you look at the speck of sawdust in your brother's eye and pay no attention to the plank in your own eye? "

Matthew 7:4





- Selfmanipulation vs manipulation of others
- Intentional vs unintentional

Mathematical theory of communication "information" (well-formed) Philosophical theories environmental primary (content) secondary metaoperational derivative instructional factual untrue (information) (disinformation) (misinformation)

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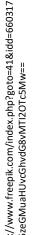
Matthew 7:4

Selfmanipulation

- Mostly unintentional
- Defensive mechanism

Manipulation of others Mostly intentional

- Offensive mechanism
 - ✓ To defense myself
 - ✓ To obtain some advantage











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Before



HONDER BUILD

http://www.diet4india.com/images/image4.gif

Playing on emotions / feelings of unhappiness - the limbic system



http://blogsimages.forbes.com/jeffbercovici/files/2012 /08/dr.-oz-weight-loss-pills.jpg





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After

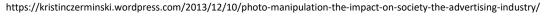
Manipulation and propaganda













Propaganda

Manipulation / propaganda is as old as mankind itself, and sometimes it may seem absurd



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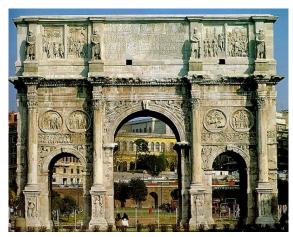


Propaganda

- Historical resources have propagandistic character
- History is written by winners
- Subjective / engaged view vs. pure propaganda



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Athe power of media in the past...



The power of media in the present

Media in the past had at least artistic value...



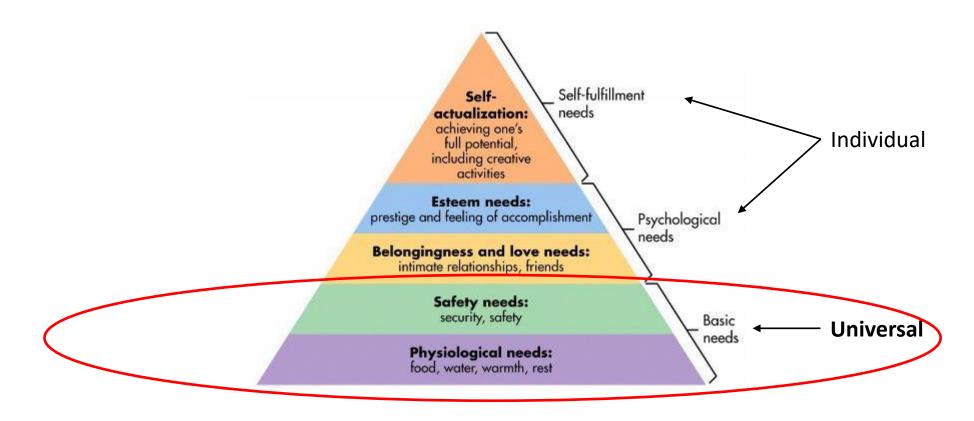
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https://faceswaponline.com/trump-travels-overseas



Propaganda targets basic needs



http://www.simplypsychology.org/maslow-pyramid.jpg



Propaganda





Propaganda





Propaganda and propaganda



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we are strong



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Propaganda and propaganda



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Glorification

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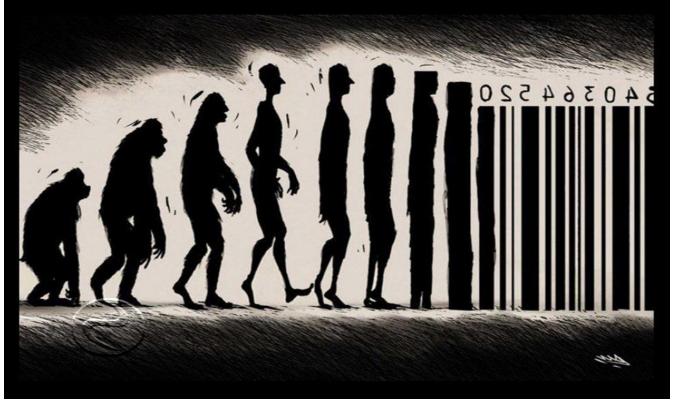






Dehumanization

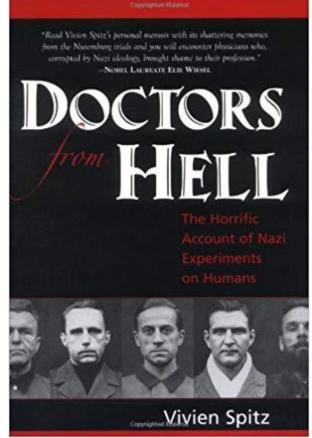
- Debasement the others' individuality as either an "individual" species or an "individual" object
- Animalistic
- Mechanistic





Dehumanization

WINNER OF THE LOS ANGELES TIMES BOOK PRIZE "A monumental achievement: an avesome account of the ultimate transgression of the Hippocratic Oath; a formidable contribution to Holocaust studies." - Francine du Plessis Gray _1_1?keywords=dctors+and+nazis&qid=1571405647&sr=8-DOCTORS MEDICAL KILLING AND THE PSYCHOLOGY OF GENOCIDE WITH A NEW PREFACE BY THE AUTHOR **ROBERT JAY LIFTON**



https://www.amazon.com/Doctors-Hell-Horrific-Account-Experiments/dp/1591810329/ref=sr_1_2?keywords=dctors+and+nazis&qid=1571405647&sr=8-2-spell



Dehumanization

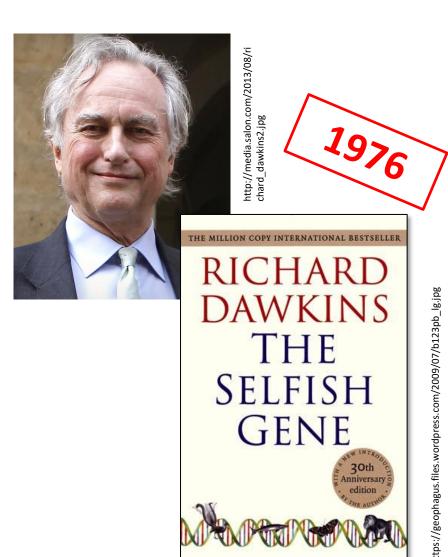
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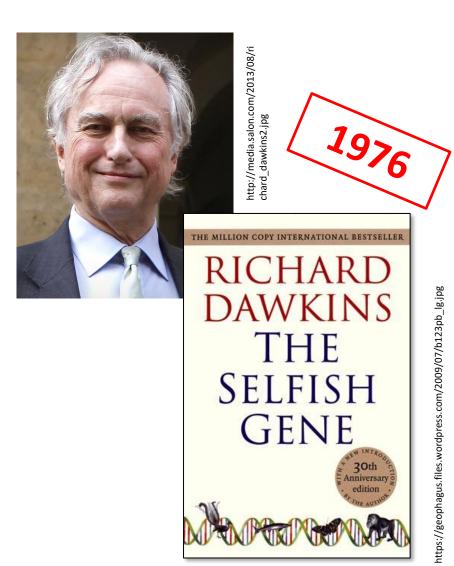


- Evolutionary model of cultural information transfer
- Analogy genetic information transfer



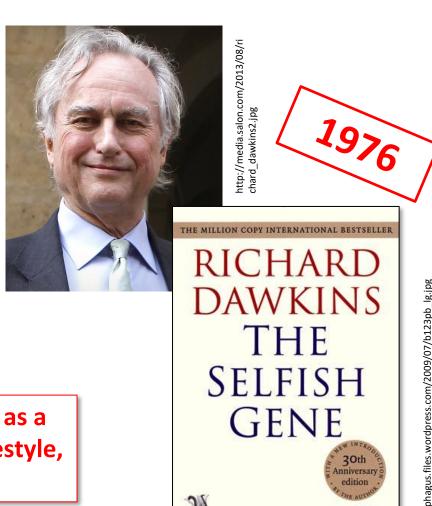


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 - "unit of cultural information"
- Memetic complex
 - System of values/philosophy/religion



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Every system of values has to be considered as a memetic complex (philosophy of consume lifestyle, biker or hooligan)





- Memetic complex has to replicate, otherwise it will become a "dead learning / information"
- Memetic complexes compete each other for "substrate" (human mind)



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http://4.bp.blogspot.com/_4ryHM8waEOc/S5ZL9uKNi0I/AAAAAAAAAA4w/9cYf2Jf7rnc/s400/coke_vs_pepsi.jpg



Memetics may be applied to any part of the culture, eg. on technological processes

Culture

- the sum of knowledge
 - ✓ Material
 - ✓ Spiritual



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https://pixels.com/featured/1-madonna-and-childpeter-paul-rubens.html



https://www.wikiart.org/en/m-h-maxy/madonna



- Treatment strategy
 - Evidence based
 - Rational
 - Reproducibility
 - Knowledge transfer possible

Healer

- Treatment strategy
 - Personal ability based
 - Pseudorational/irational
 - Reproducibility is problematic
 - Knowledge transfer impossible



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It is possible that people with supernatural abilities exist, but they are in minority and the majority of healers intentionally or unintentionally manipulate their patients



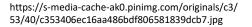
> Every phenomenon which cannot be explained rationally is similar to miracle/supernatural phenomenon



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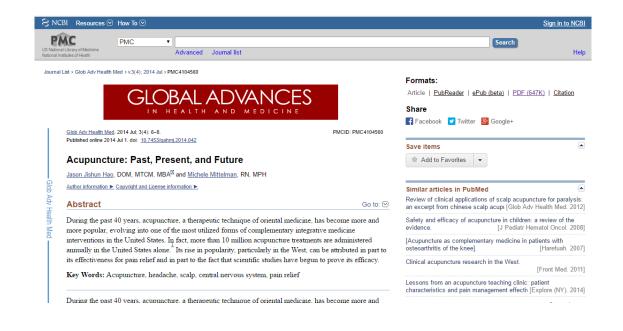


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➤ Even we cannot explain some phenomena we should consider its effect, reproducibility and knowledge transfer possibilities





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- Approach to patient
 - More rational explanatory

- Approach to patient
 - More emotional calming



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- Approach to patient
 - More rational explanatory

- Approach to patient
 - More emotional calming

Placebo has an effect in approximatelly 30% of cases and this is associated with anticipation functions of the brain



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 - Reproducibility
 - Knowledge transfer possible

Healer

- Treatment strategy
 - Personal ability based
 - Pseudorational/irational
 - Reproducibility is problematic
 - Knowledge transfer impossible

It is possible that people with supernatural abilities exist, but they are in minority and the majority of healers intentionally or unintentionally manipulate their patients

- Approach to patient
 - More rational explanatory

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 - More emotional calming

Placebo has an effect in approximatelly 30% of cases and this is associated with anticipation functions of the brain

Every illness is a stressor negatively affecting patient's psyche



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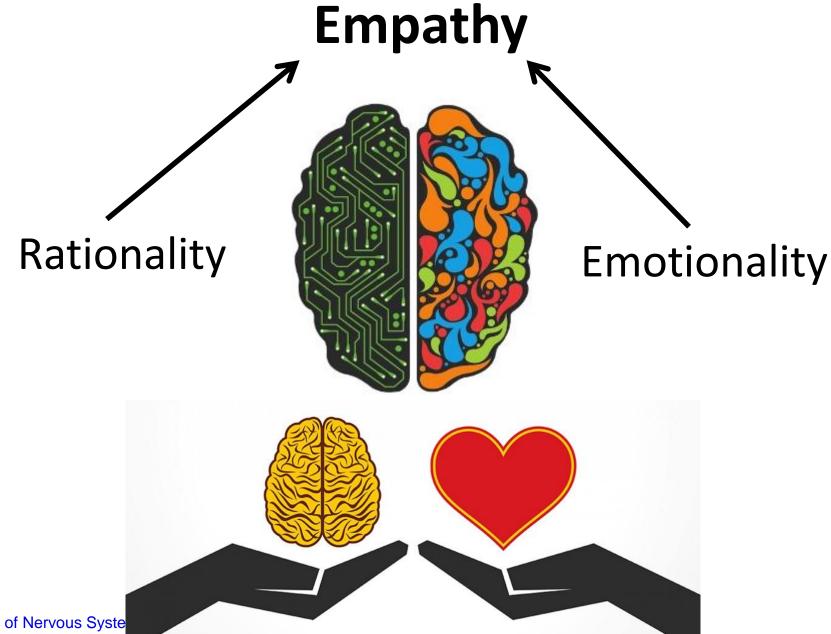
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Good approach to patients may improve treatment results by combining placebo effect with the effect of medicaments







MUNI MED

86. The basic characterization of neocortical functions – language and social brain, basic overview of functional diagnostic methods used in neurology

- Communication and language
 - Language areas localization and fuctuion including lobulus parietalis inferior, aphasia...
 - Lateralization of language functions, gender differences

- Social brain
 - Human is a social beeing, so the brain has to be designed accordingly
 - Frontal lobe and limbic system in behavioral control
 - Triune brain theory, whole brain model, mentalization, dehumanization
- Functional diagnostic methods (EEG, SPECT, PET, fMRI)

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