

DEEPSEC

Stefan Hager DATEV eG @khae

DISCLAIMERS

INFORMATION IN THIS TALK ONLY APPLIES TO PARTICIPATING REALITIES AND DIMENSIONS.

PLEASE SHARE FREELY.



IN CASE YOU NEED (OR WANT) TO LEAVE EARLY:

- You are shaping your perception of reality (and thus can change it)
- Your brain on autopilot will limit your choices
- Creative thinking and tuning the brain gives better results in your work, whatever it is.





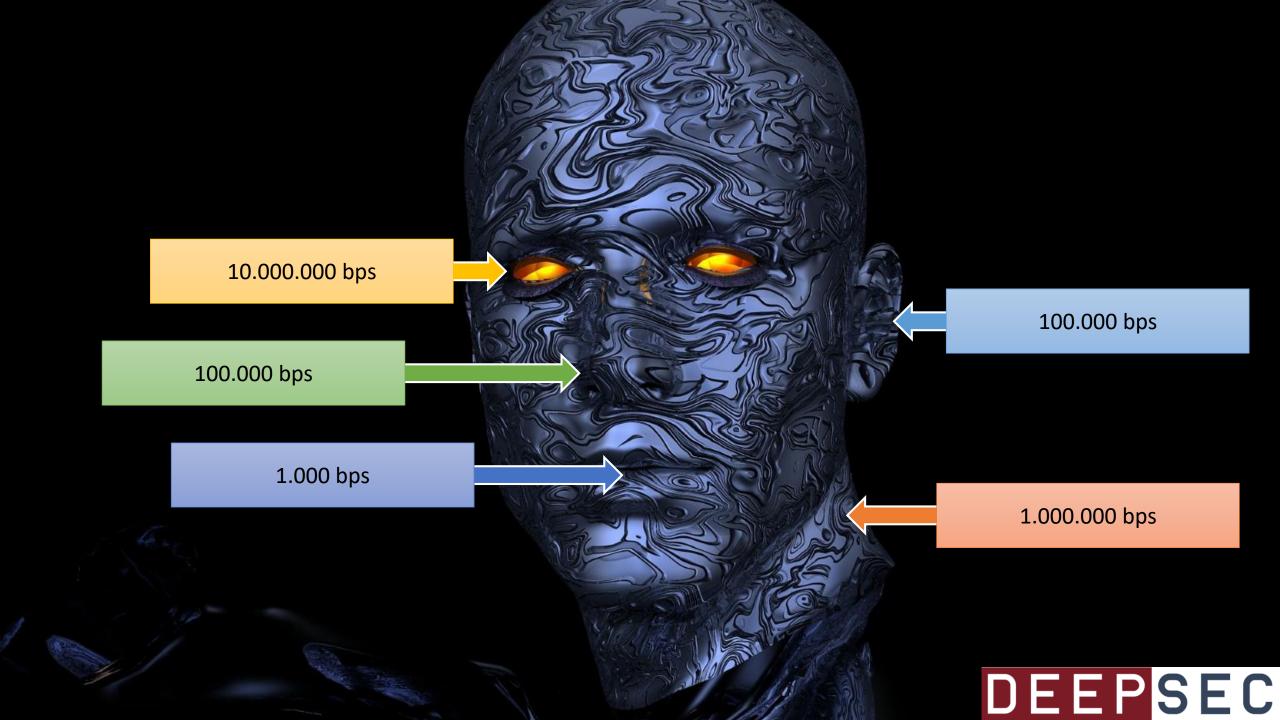
PART IV Your Brain is Lying to You.



A BANDWITH PROBLEM







11.201.000 bits per second = 10.938 kbit per second =

10.6 Mbit per second ...

Yay?

"A new way to analyze human reaction times shows that the brain processes data no faster than 60 bits per second."

Source: MIT Review from August 25th, 2009

HYPERJET ENGINE STATUS	
	LIGHT SPEED
	RIDICULOUS SPEED
Þ	LUDICROUS SPEED
	PLAID

Your system can't deliver what your senses promised you. "Up to x Mbit/s",

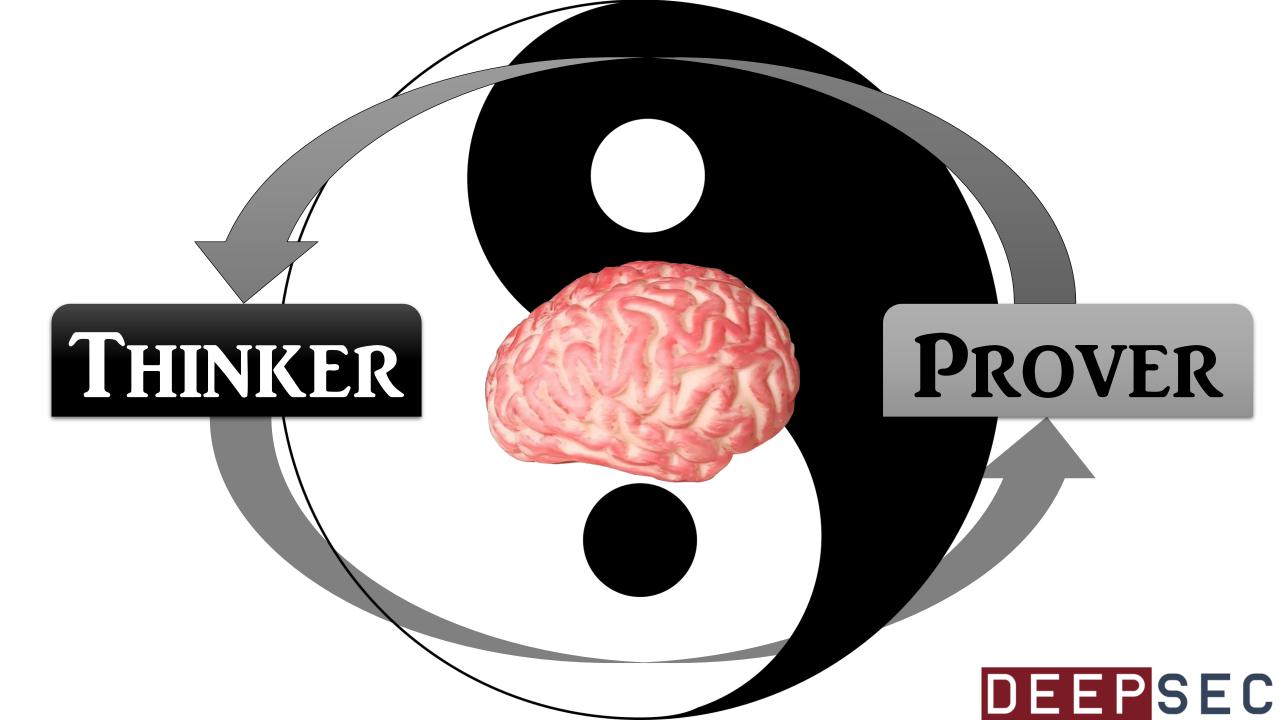
indeed.





BIASED INTERPRETATION



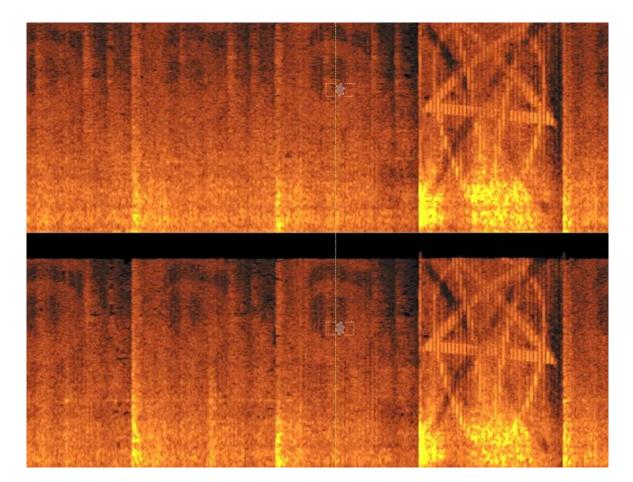


WITHHOLDING INFORMATION





HACKING PERCEPTION (ILLUSIONS)

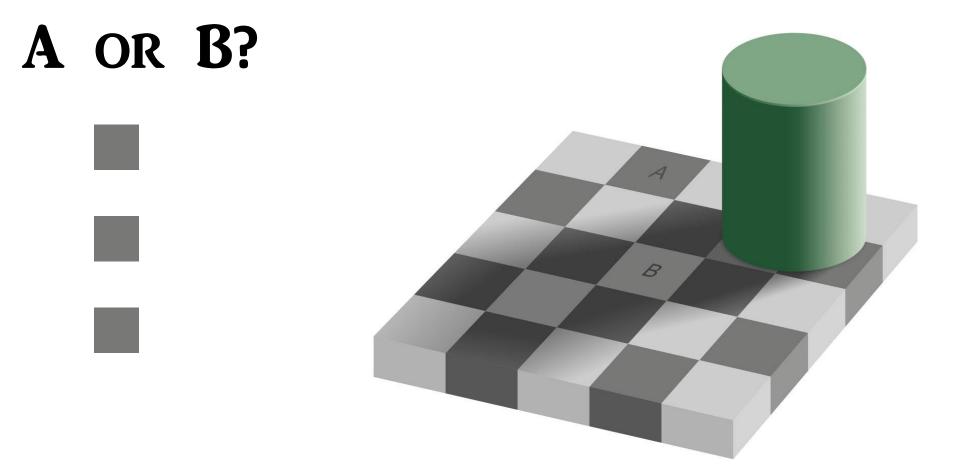




OPTICAL ILLUSIONS







By derivative work: Sakurambo (talk)Grey_square_optical_illusion.PNG - Grey_square_optical_illusion.PNG, Copyrighted free use, https://commons.wikimedia.org/w/index.php?curid=4443183







AUDITORY ILLUSIONS

Binaural beats affect our brainwaves directly and can alter moods, behavior, even consciousness.

A binaural beat is created by playing a different tone in each ear, and the interference pattern between the slightly differing frequencies creates the illusion of a beat.

It's intended to be heard through headphones, so there's no cross-channel bleed across both ears.



DEEPSEC

OLFACTORY ILLUSIONS

Phantosmia (olfactory hallucinations) smelling an odor that is not actually there. (Wikipedia)

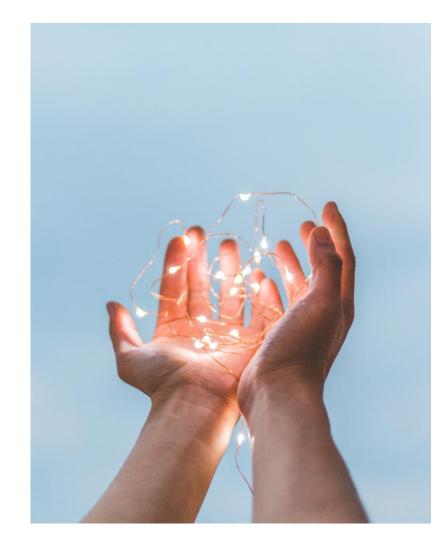






TACTILE ILLUSIONS



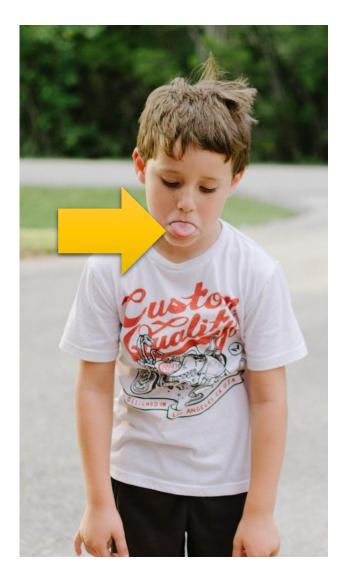




GUSTATORY ILLUSIONS



Synsepalum dulcificum is a plant known for its berry that, when eaten, causes sour foods (such as lemons and limes) subsequently consumed to taste sweet. This effect is due to miraculin. Common names for this species and its berry include miracle fruit,[2] miracle berry, miraculous berry,[2] sweet berry,[3][4][5] and in West Africa, where the species originates, agbayun,[6] taami, asaa, and ledidi. (*Wikipedia*)



DEEPSEC

YOUR BRAIN IS A (SLIGHTLY RANDOM) FILTER WITH DYNAMIC RULES





BUT ... Where's your Audit Trail?



DEEPSEC



Some RECURSION **INVOLVED.**



PART II DEFENSE MECHANISMS







http://www.derekarnold.com





BACK TO INNOCENCE!

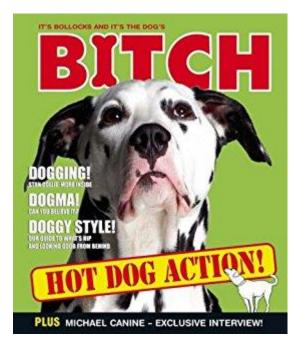




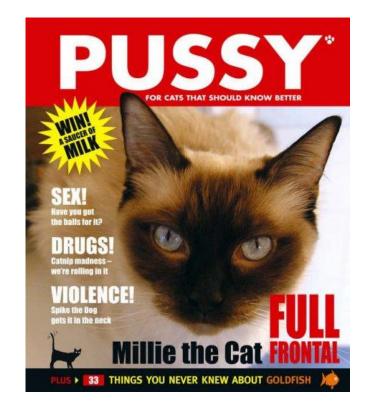
(WE ALL KNOW WHERE THIS IS HEADED)



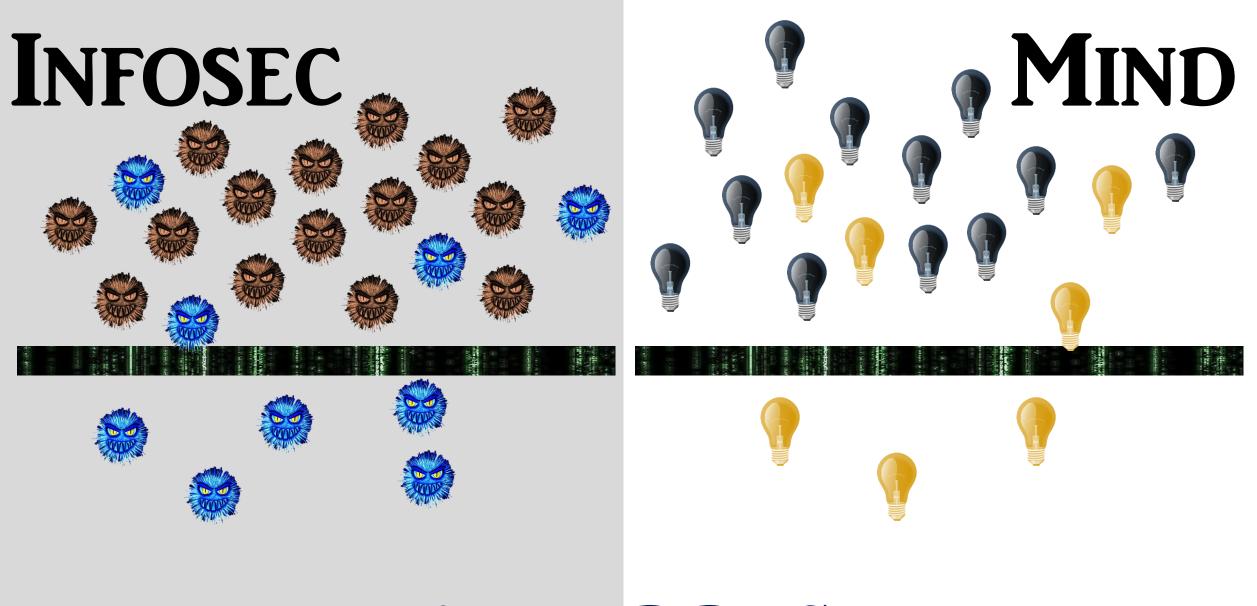




 $\bullet \bullet \bullet$

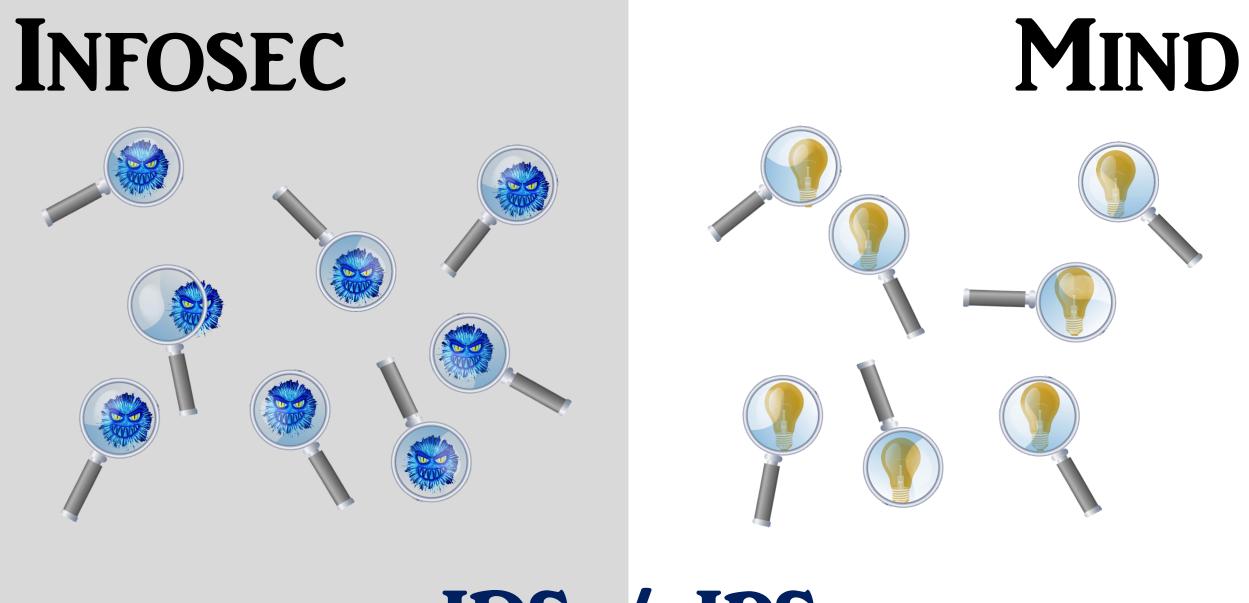






ANTI-DDOS





IDS / IPS



MIND



DETECTING ANOMALIES DEEPSEC





INFOSEC



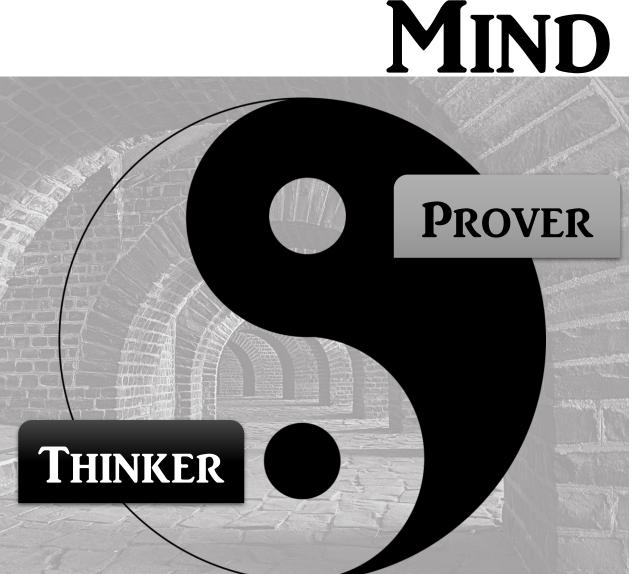




SANDBOXING



INFOSEC



FIREWALLS

DEEPSEC

ANALOG VS DIGITAL







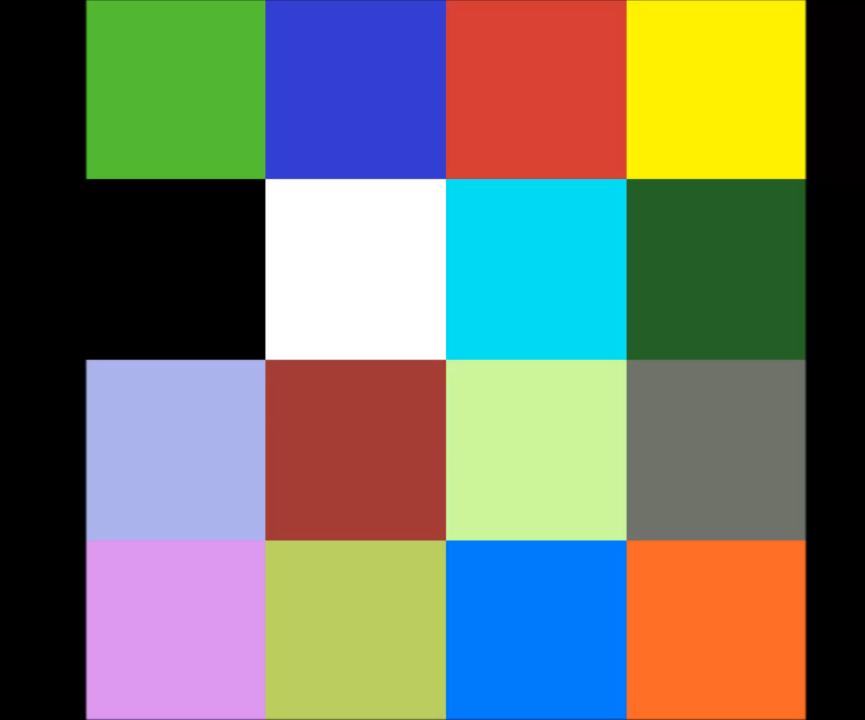
I AM HAPPY TO SEE YOU

<u>I</u> am happy to see you	Even if nobody else is.
I <u>am</u> happy to see you	No really. Stop asking.
I am <u>happy</u> to see you	Yeah, happy.
I am happy <u>to see</u> you	Instead of mail or phone calls.
I am happy to see <u>you</u>	But not your stupid friend.
I am happy to see you	I am an answering machine.
I am happy to see you	Are you happy to see me, too?
I am happy to see you	I'm drunk.
	DEEPSEC

PUTTING IT TO THE TEST

Please relax and try to use all 48 Bytes of your consciousness.





KEY TAKEAWAYS?

- How many squares?
- How many different colours?
- Did you notice whether all the squares were different?
- Can you roughly describe what happened?





KEY TAKEAWAYS?

- How many people (roughly) were in the video?
- How many cars?
- What was the colour of the dress of the woman in the background?

- Did the truck drive from left to right or vice versa?
- Is this happening in a city or a small village?
- Can we say whether this is happening in Europe or Africa?
- Night / Day?
- Winter or Summer?
- Etc..

BRAINS ARE NOT "GENERAL PURPOSE"

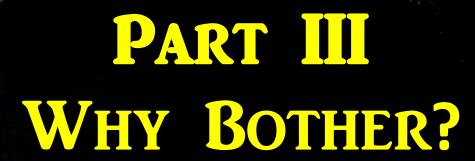
"Precisely **because** from one instant to the next consciousness can switch from one object to another, it is not perceived as limited in its capacity.

One moment you are aware of the lack of space in your shoes, the next moment of the expanding universe. Consciousness possesses peerless agility.

But that does not change the fact at any given moment you are not conscious of much at all."

- Tor Nørretranders





0101101010101

ane par

DEEPSEC

001(10 -march

10/110

新作品

010

RECRUITING FOR CYBER



Defense Team

- Male
- White
- Certified Ethical Selfless Angel of Cyber

- Max age 25
- Lots of experience
- Must be able to think like his boss
- Beard optional

RECRUITING FOR CYBER



Offense Team
Male
White
Certified Ethical Contess Angel of Cyber
Max age 25

- Lots of experience
- Mult be able to think like his boss
- Beard



https://images-cdn.9gag.com/photo/5994517_700b.jpg



Social Engineering







Groucho: You know I think you're the most beautiful woman in the world? Woman: Really? Groucho: No, but I don't mind lying if it gets me somewhere.

UNDERSTANDING YOURSELF

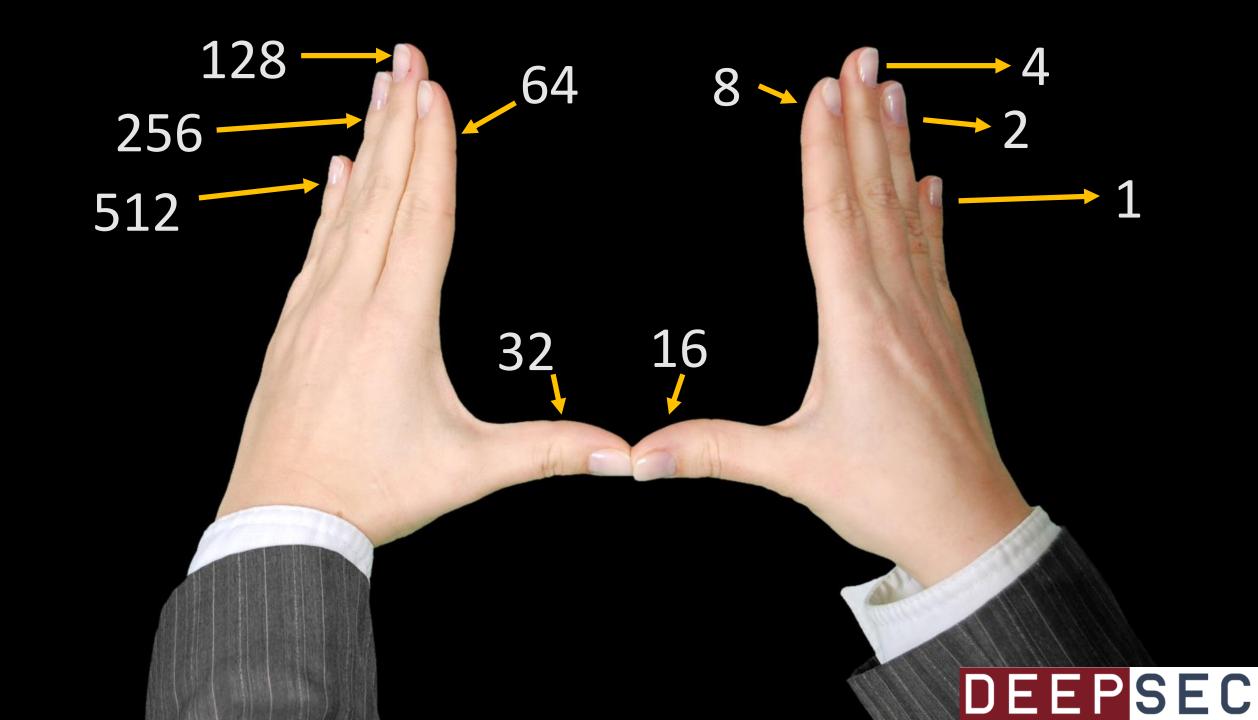
BETTER





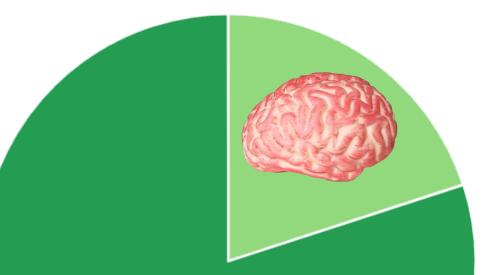
DOING THINGS DIFFERENTLY







LOSING WEIGHT



Everything else



PART IV TOOLS





DEEPSEC

All annus



DON'T BE AFRAID TO OFFEND YOURSELF.

AVOID OFFENDING OTHERS, PLEASE. DEEPSEC



PART V PITFALLS & CONCLUSIONS



Being scientific:

There are some results and facts which are counter-intuitive, but still true.

Mind Hacker:

My personal perception leads me to a different assumption, therefore this aspect of the model seems wrong to me.

Idiot:

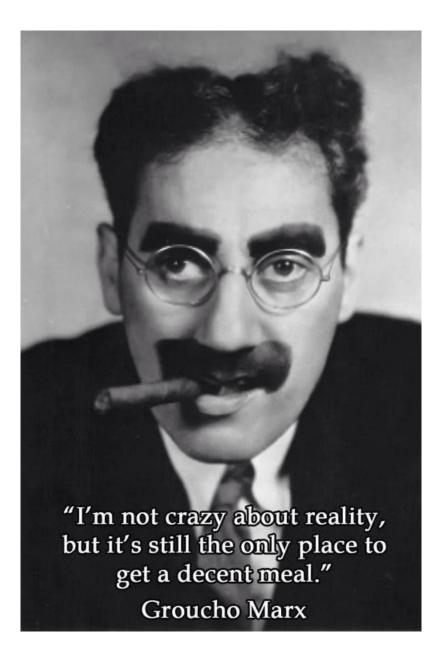
The earth is flat because I believe it.

It's a thin line.



FREEDOM OF CHOICE DEEPSEC

THE RABBIT HOLE GOES EVEN DEEPER



CREDITS

Unless otherwise credited, videos and pictures are either Public Domain or CC0 with no crediting required.

Sites like the following make my life much easier when it comes to pictures for presentations, so a huge THANK YOU from me to all those sites and their contributors:

DEEPSEC

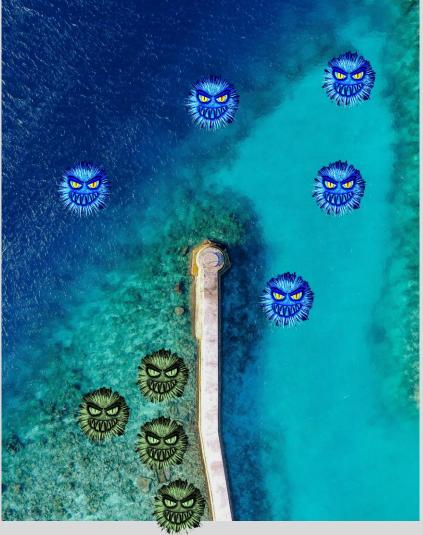
https://unsplash.com/ https://pixabay.com/ https://www.pexels.com/ https://morguefile.com/

THANK YOU FOR YOUR TIME!

Questions?



INFOSEC



DLP

MIND