

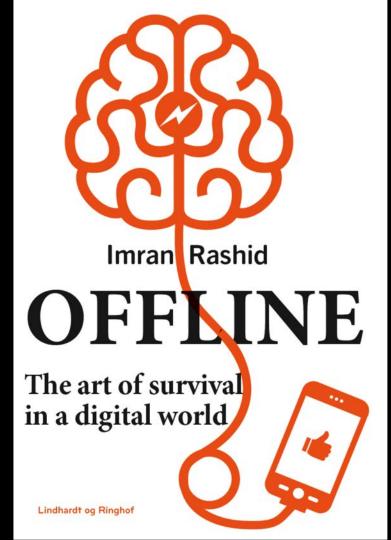
Children and healthy digitization

The 5th SPAHCO-meeting in Viborg

26th February 2018

Dr. Imran Rashid

- General Practitioner
- Serial IT-entrepreneur
- Head of Innovation at Aleris-Hamlet Hospitaler
- Author of 'SLUK / Offline'
- Founder of 'Centre for Healthy Digitalization'





'Dad, can I have a smartphone?'

Who are we?



Control of fire

- Ability to affect surroundings
 - Prepare food
 - Shorter intestines
 - Less energy spent on eating and digesting
 - More energy for what we needed to survive
 - Bigger brain

Bigger brains

- Increase in maternal death when giving birth because of a larger head
 - Premature children was a better bet but they couldn't survive alone
 - Compassion became an essential trait needed for survival
 - We went from being individuals into becoming part of a tribe



- Coordinated effort
- Communication / gossip / learning
- Fictitious thinking / religion / beliefs
- Hierarchies
 - Different lifestages different roles
 - Specific rules regulated behavior in the tribe

We became a conscious species with an inner voice being able to get out of our own minds and accomplish goals that were more important than our own needs as individuals by relying on others.

conscious an inner voice out of our own minds more important than our own needs relying on others.

Whats in and on our mind?

BASIC BIOLOGICAL NEEDS

BRAIN

BEHAVIOR

FOOD

WATER

SLEEP

MENTAL RESTITUTION

ATTENTION

CONSCIOUSNESS AUTOPILOT

DELAYED GRATIFICATION
CONTROLLED
HEALTHY
BORING

INSTANT GRATIFICATION
IMPULSDRIVEN
UNHEALTHY
FUN





Delayed gratifications

Better marks

Better health

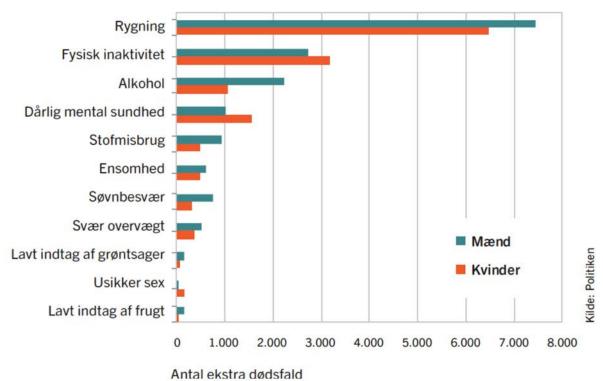
Less drug abuse

Less overweight

Less criminality

Better social skills

Specific riskfactors correlated to early death adjusted for demographic factors.



May I have your attention please?

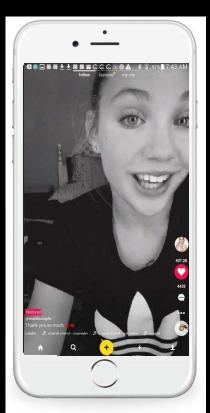
Close your eyes and count to 10

"Pay attention"









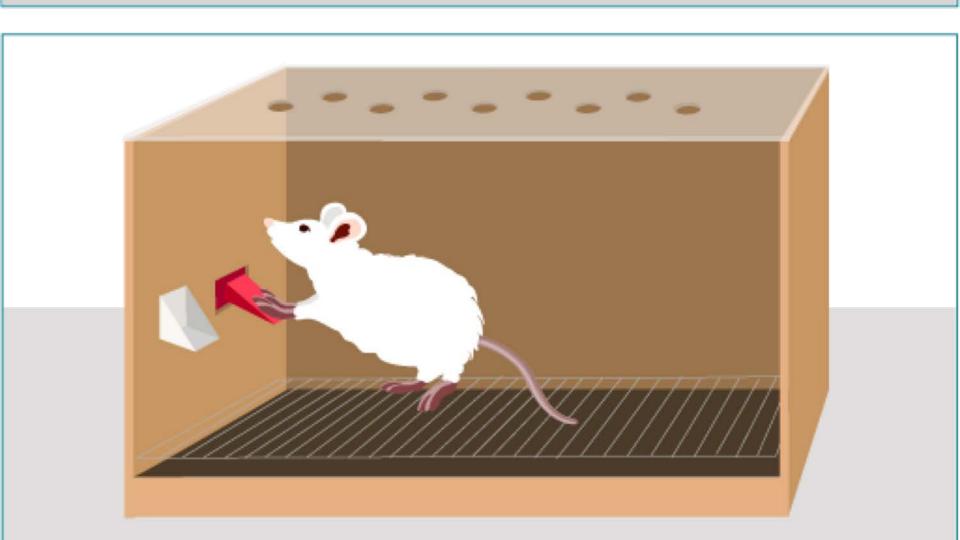






BJ Fogg, PhD

My expertise is creating systems to change human behavior. I call this "Behavior Design."



Behavior = MAT

Motivation

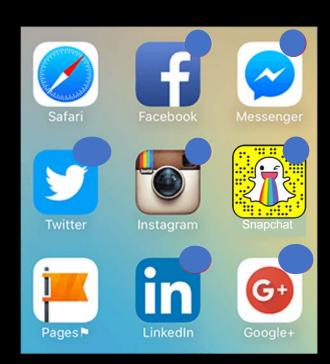
•WHY?

Ability

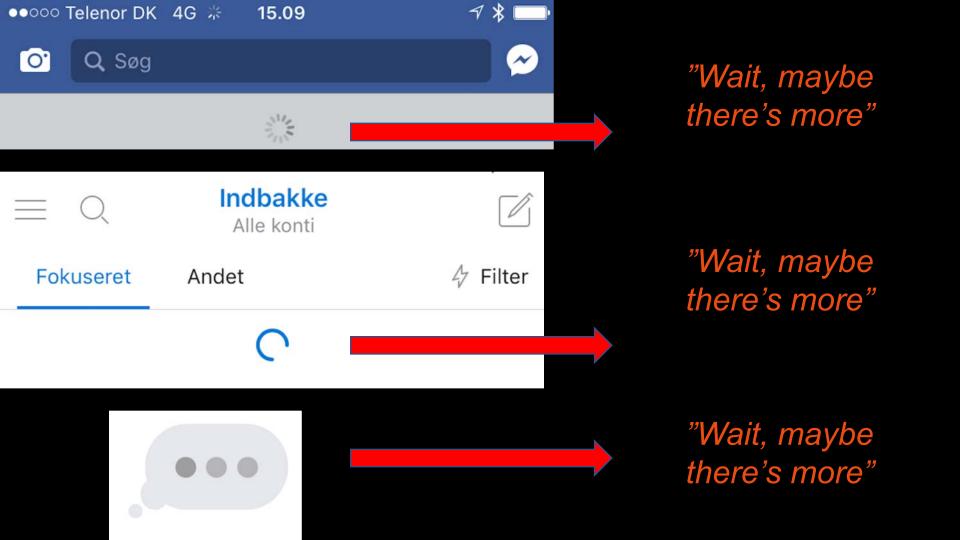
•HOW?

Trigger

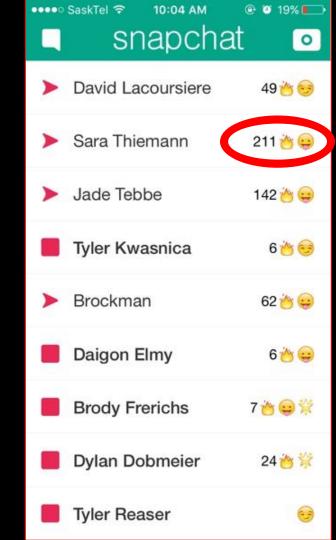
•WHEN?

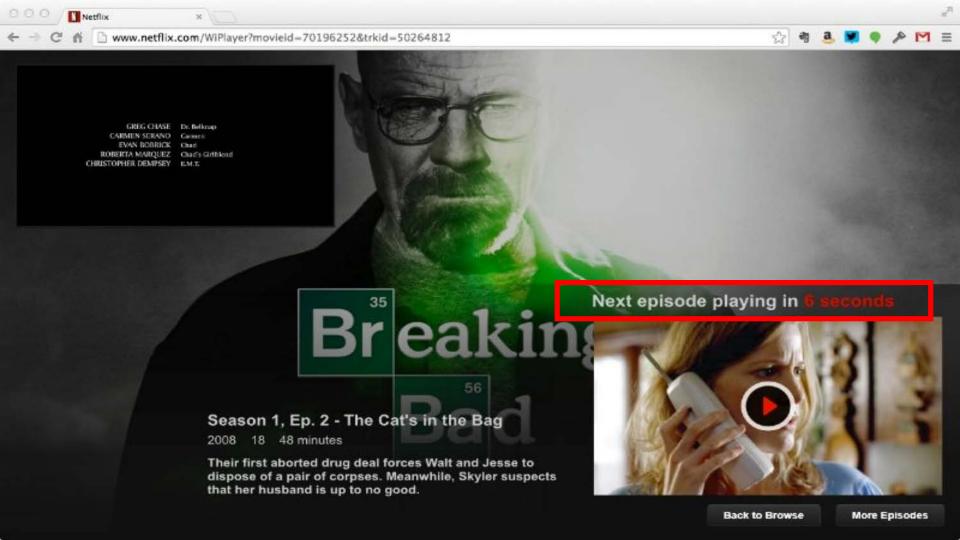


"News!" "Interesting!" "Exciting!" "Has anyone seen me?" "Does anyone like me?"



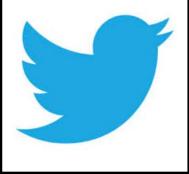
The art of raising a teenager...







NETFLIX'S BIGGEST COMPETITION IS SLEEP, SAYS CEO REED HASTINGS













How well does Facebook know you?



Michal Kosinski

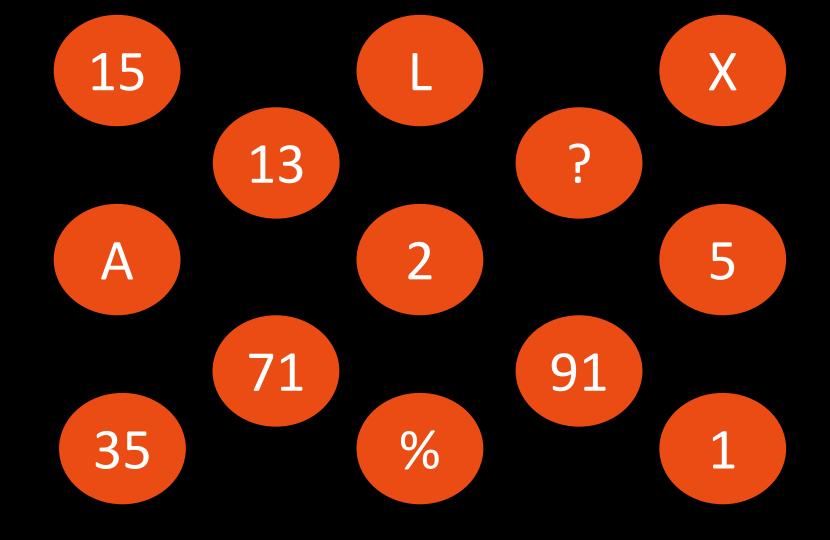
"He was able to evaluate a person better than the average work colleague, merely on the basis of 10 Facebook "likes." 70 "likes" were enough to outdo what a person's friends knew, 150 what their parents knew, and 300 "likes" what their partner knew. More than 300 "likes" could even surpass what a person thought they knew about themselves. On the day that Kosinski published these findings, he received two phone calls. The threat of a lawsuit and a job offer.

Both from Facebook."



Narcissus, Narkissos, from greek mythology a handsome, proud young man who fell in love with his own mirror image.

Homo Distracticus





10 mio. bits / second



1 mio. bits / second



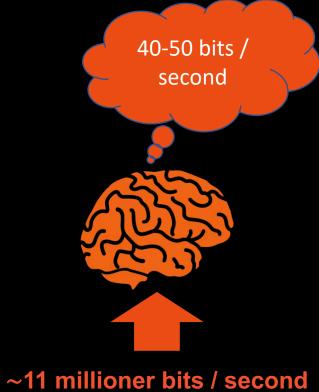
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100.000 bits / second



1000 bits / second

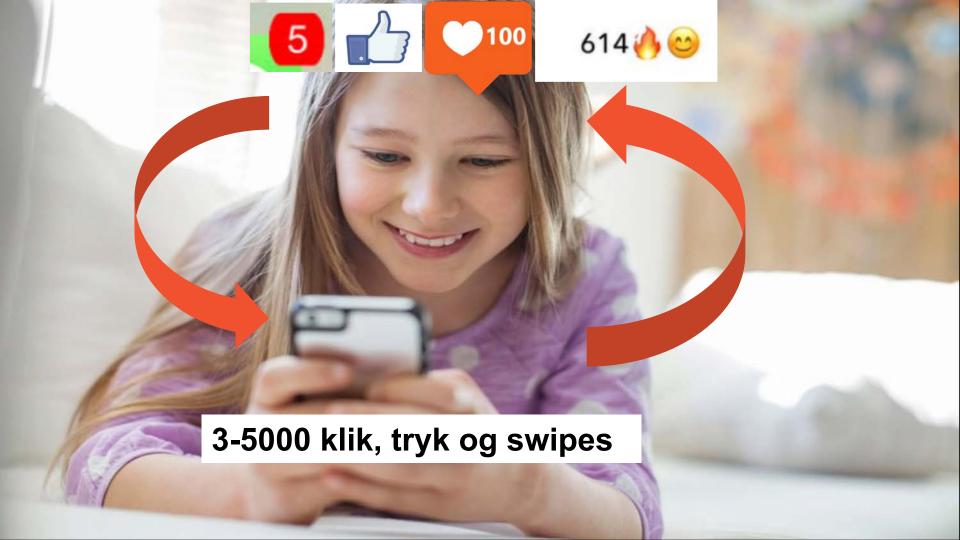


Informationsbearbejdning

- Udvælgelse af, hvilke sanseinput der er vigtigst
- Bearbejdelse af disse input
- Fortolkning af input, hvorved der skabes information af relevans
- Lagring af informationen i korttidshukommelsen.
- Genkaldelse af informationen fra korttidshukommelsen
- Handling på baggrund af informationen.

Millennials Check Their Phones More Than 157 Times Per Day







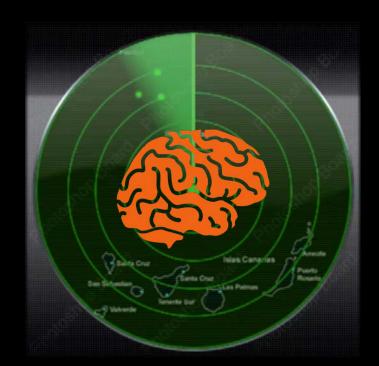




'Technoference'

The distracted brain





Downloadet his Oppaver.com

Effectively of coppet over laborateristics og i neter identalvelige lig.

"Stabeline til on Landonpart"

1) Elements other eighther and

Palgonia ophosinger stoit Bongli.

Naves of Separat (Wash bodder Separat 7)

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Kenkelehriegebe

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Apparaturficts justice. The Was multicollect organization content for again IT Skelv per firms.

01 Fremomeriside

Marie Inel, front I grands, dail the oth Seregar, I.M tin Spitzel-other skal man bases proteate Strenger. Flor has abbalies and front I facility genelo og Adachead Lord. South Sava gent.

Fo der respon tiere Korkstalen med Konstgel? En der Kolige Lenskalter? Mad der brugen verrige sklorhobeshor" Augh evonarik K.S. sembage og åren holsbring.

1) Exceptionities:

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Alta types of Tecopologic stall view road do servedo formito og med telsandor.



- 75% in a study stated that they waste at least 2 hours daily on their job.
- People switch tasks every 3 minutes on average
- After a distraction it takes approx. 23 min. 15 sek. To get back on track
- Distractions lasting more than 3 seconds results in a doubled error rate
- Half of the distractions... are self inflicted

ADHD

- Unfocussed, easy to distract
- Forgetfull and disorganized
- Restless, 'always on the go',
- Impulsive, interrupts, hard to wait for own turn
- Hard to correct own behavior
- Hard to say no to impulsedriven needs

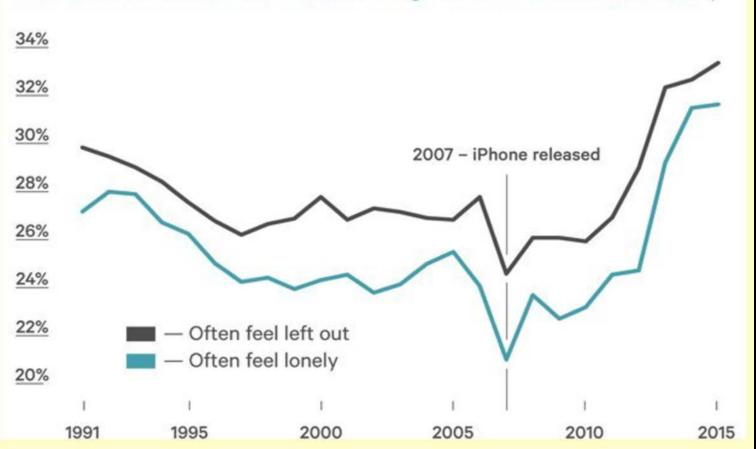


Have Smartphones Destroyed a Generation?

More comfortable online than out partying, post-Millennials are safer, physically, than adolescents have ever been. But they're on the brink of a mental-health crisis.

More Likely to Feel Lonely

Percentage of 8th-, 10th-, and 12th-graders who agree or mostly agree with the statement "I often feel left out of things" or "A lot of times I feel lonely"



How tech can harm kids mentally

- Mental Health
 - Cyberbullying: 40% of children have been involved in a cyberbullying incident
 - Self-harm: 48% of teens who spend more than five hours a day on electronic devices report at least one suicide-related outcome (felt very lonely and considered, planned or attempted suicide)
 - Feeling addicted: 50% of teens feel addicted to their mobile devices. 78% check their devices at least hourly.

How tech can harm kids physically

- Physical health
 - Brain development: Internet addicted kids have significantly less gray mater, which is associated with planning and impulse control.
 - Attention & distraction: 21% of college students spend their classroom time for activities unrelated to class
 - Healthy growth: A study of 2 years old showed that BMI increased for every hour per week of media consumed.

Survey - Dec. 2017 276 highschool kids

- 81% thought that they spent more time on their smartphones, than they were aware
 of on a conscious level
- Almost 70% found themselves on a regular basis with their phones watching it without thinking about what they were doing.
- 65% lost completely track of time, when they used their phone
- 73% said that the time they spent on their smartphone had increased
- 48% wanted to reduce their smartphone usage
- 72% regularly slept with an active smartphone under the pillow or beside the bed.
- Almost 80% were on their phone all day long even if it disturbed them in their daily activities
- Almost 80% experienced a loss in concentration due to their smartphones
- 70% felt an immediate urge to pick up the phone instantly when it rang or vibrated
- **85**% often found themselves checking their phones over and over even when they knew there was nothing new or important to see on it.



'Dad, can I have a smartphone?'

Digital pollution - and how to deal with it



10 mio. bits / second



1 mio. bits / second



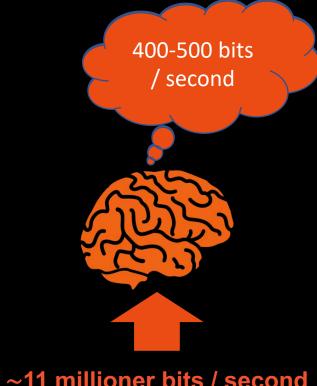
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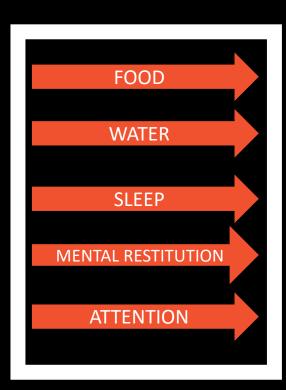


1000 bits / second



~11 millioner bits / second

BASIC BIOLOGICAL NEEDS





This is known about selfcontrol

- Selfcontrol leads to succes
- Selfcontrol depends on bloodsugar
- Selfcontrol is a limited resource
- Selfcontrol improves with practice
- Selfcontrol improves with physical exercise
- Selfcontrol depends on sleep
- Selfcontrol and empathy follows the same brain patterns









Project Digital Education: Day 1

- Two lectures focussing on human needs, dopamin, social medias to establish a basic understanding about the topic.
- Lecture by Imran Rashid followed by a workshop with teachers and parents

Project Digital Education: Day 2

- Teaching without digital media. Two hours with handwriting and other analogue practices.
- Later that day 2 hours about the differences between non-verbal communication and digital communication. Hvad does body language and eye movements tell us?

Project Digital Education: Day 3

 Moral dillemas about SoMe. Shitstorms, digital abuse, prescence and FOMO. The students tested different viewpoints and made role plays on the topics.

The Result

- Our phones shouldn't be the easy way out and we will try and help each other to avoid an unneccessary smartphone usage
- We are allowed to tell each other to reduce the usage, if it's necessary
- We have to learn to relax more without phones. We need to be more present and more together in our leisure time.
- It's not allowed to use phones after 22.00
- Whenevner someone play music from the one, it has to be something everyone wants to listen to.

Case IIH Nordic

- Keep focus.
- Use music to avoid noises.
- Automate your emails.
- Create an overview.
- Have shorter meetings.

The Result

- The company went from 37 to 30 hour work week
- The business grew 20%
- The boss lost 10 kilos.





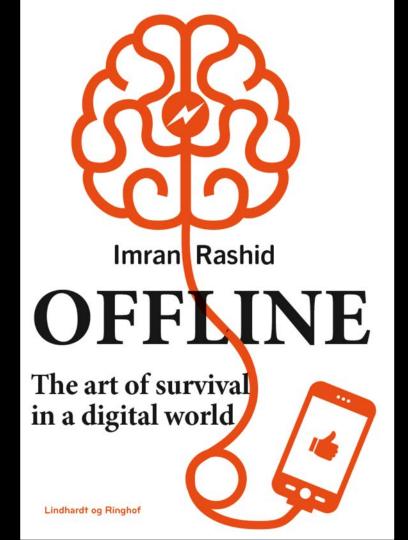
IIH Nordic

- Buy an alarm clock and get the phone out of the bedroom
- Use the airplane mode when with other peoples
- Remove notifications from the 'popcorn'-apps
- Forget the phone more
- Switch off the brain more

CENTRE FOR HEALTHY DIGITIZATION

Because the digital transformation affect humans.

Questions?



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