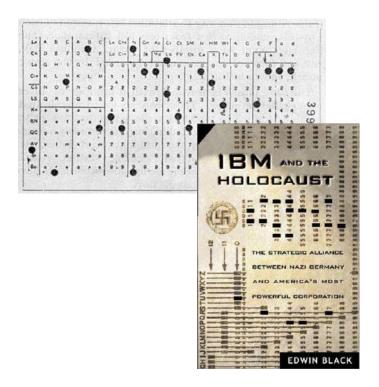
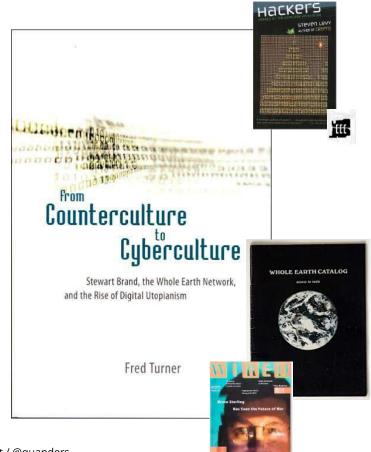


THE DIGITAL REVOLUTION

A bumpy start...





Productivity

Accuracy

Satisfaction

Desire

THE BENEFITS ARE OBVIOUS NOW

Speed

Pleasure

Efficiency

Performance

WE ARE ALL CONNECTED



Ø2h 51min per day,every 7-15 min

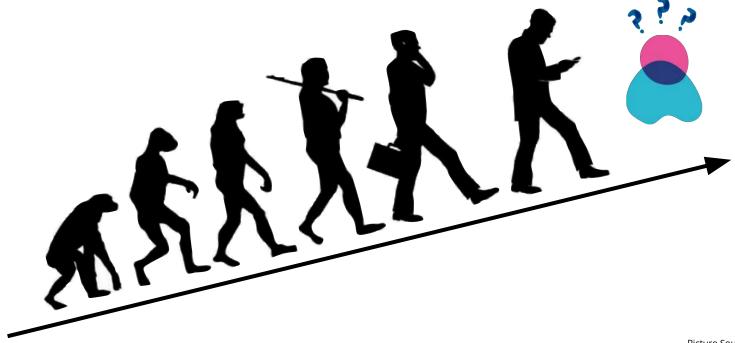
94% of the 12-19 old have an smartphone that can connect to the internet Source: KIM & JIM-Studies, 2015 Cross Platform Future in Focus Report, ComScore, 2017

WE ALL WANT TO UNPLUG, BUT CANNOT.

We all want to unplug. But cannot.



Where does this lead to?



Picture Source: unknown

Information Scarcity

Information Abundance + Attention Economy

Phase 1: Access

Democracy, Efficiency

Phase 2: Control & Balance

What? When? How? Why?

Phase 1: Access

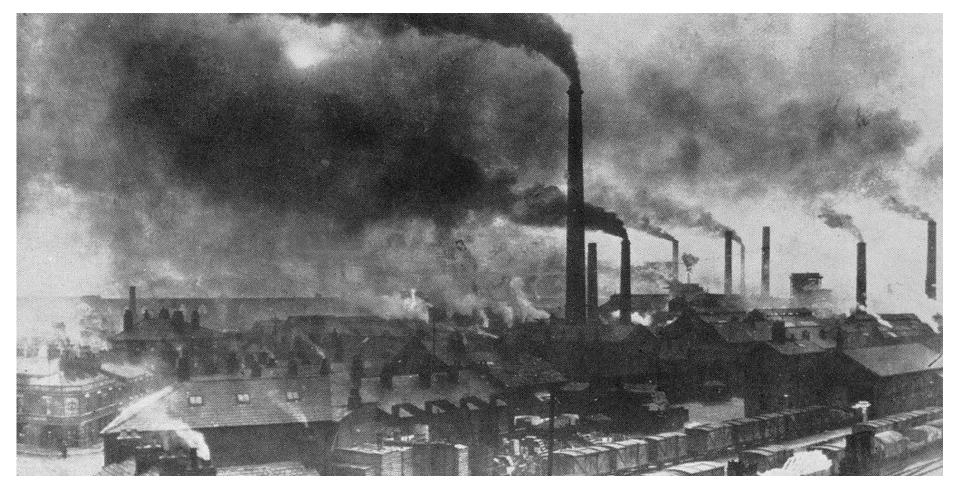
Democracy, Efficiency

fake-news and fascist movements on the rise

Failed? VW Emission Scandal

Phase 2: Controlling still about access access aconsumption, more access access what? Where substitution with the substitution with the substitution and substitution access acce

IT'S NOT THE FIRST REVOLUTION



Alexander Steinhart / @quanders Ethical Tech - A Psychologist's Perspective



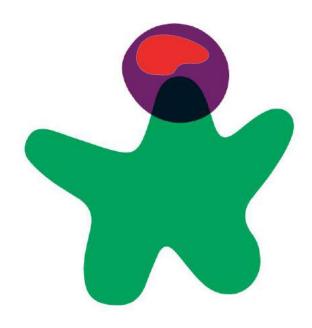




Washington Square Park, Joe Mabel CC BY-SA 3.0

WHY IS THE DIGITAL FOR US A SPECIAL CHALLENGE?

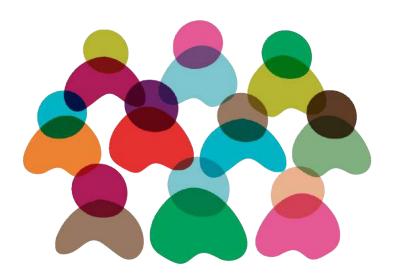
Because we're human



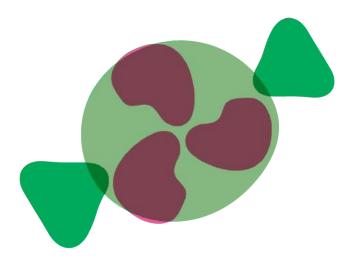
We love new information



We're social

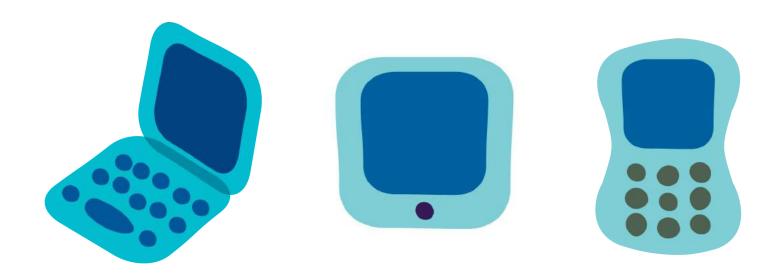


We don't have much self-control



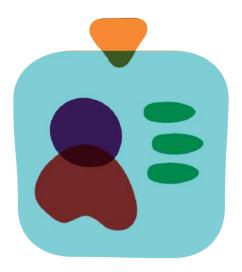
Mischel, Ebbesen, & Zeiss, 1972; Mischel & Metzner, 1962

Effortless access - *Self-control cost us energy the we lack elsewhere*



Baumeister, Bratslavsky, Muraven, & Tice, 1998; Overview: http://www.psych-it.com.au/Psychlopedia/article.asp?id=61

We create identities & enhance



We develop (strong) habits



... especially when conditioned with a variable-ratio schedule.

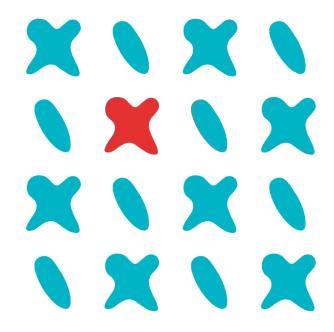
How often leads your notification to a jackpot?

Overview: https://en.wikipedia.org/wiki/Reinforcement#Intermittent_reinforcements

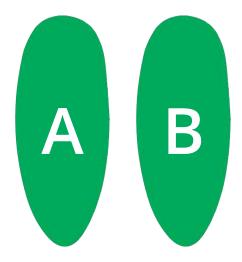
Outdated behaviorist paradigm

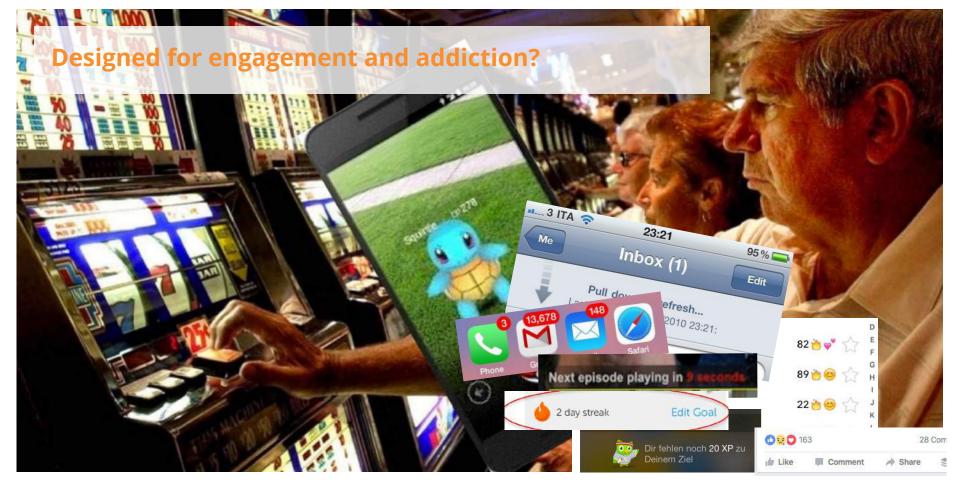


KPIs on engagement, active users and screen time



Designed for engagement

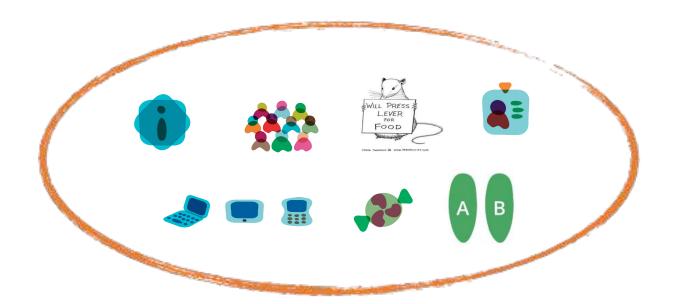




Algorithms that magnify



Current tech is a very addictive mix - an unprecedented challenge





<ALL SENSES>



<SOLITUDE>

Conley, D. (2012); Akrivou, K., Bourantas, D., Mo, S., & Papalois, E. (2011)

<BOREDOM>

Conley, D. (2012); Akrivou, K., Bourantas, D., Mo, S., & Papalois, E. (2011)

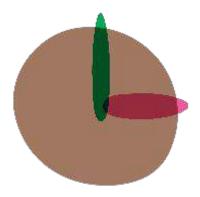
<CONVERSATION>

Sherry Turkle, 2011 & 2015

<FOCUS / ATTENTION>

König, Kleinmann, & Höhmann, 2013; Pashler, 1994; Thornton, Faires, Robbins, & Rollins, 2014

One of many consequences...



23 min 15 sec lost each time we're distracted + spillover effects

<UNPLUG, TO RECOVER>

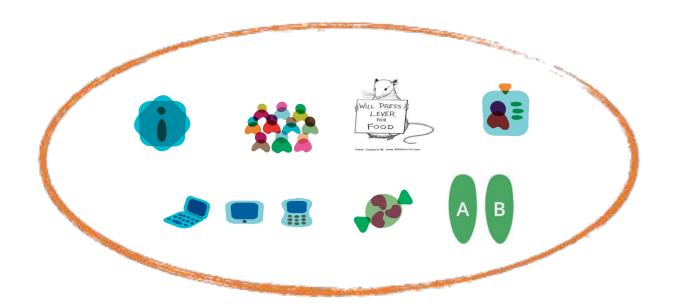
Meijman & Mulder, 1998; Fritz, C. & Sonnentag, S., 2006

<AUTONOMY / FREE WILL>

cf. Foucault + Feminist & Post-Colonial perspectives

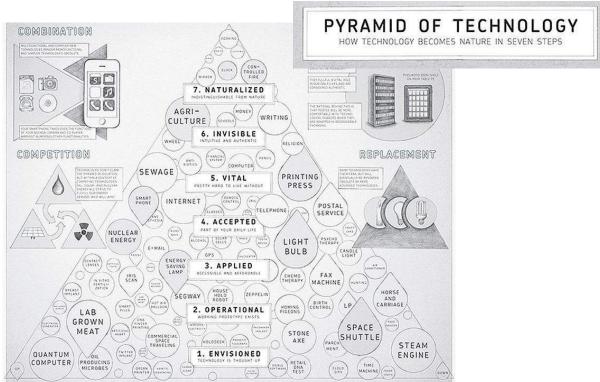
<OWN VALUES>

Current tech is a very addictive mix - an unprecedented challenge



HOW WILL THE FUTURE LOOK LIKE?

We'll naturalize digital technology more and more ...



Koert van Mensvoort / nextnature.net

Exponential growth is very hard to grasp...



Internet of Things



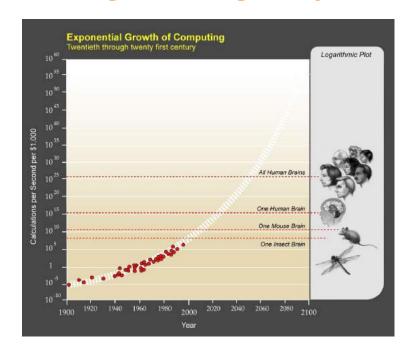
Robots



Image: Robot & Frank, Samuel Goldwyn Films

Alexander Steinhart / @quanders Ethical Tech - A Psychologist's Perspective

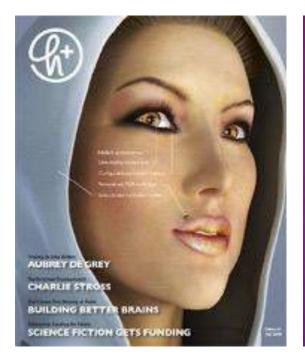
Artificial Intelligence / Singularity





Raymond Kurzweil, Photo by Michael Lutch. Courtesy of Kurzweil Technologies, Inc.; CC BY 1.0

Cyborgs & Transhumanism





Neil Harbisson, cyborg activist and president of the Cyborg Foundation; October 2012; CC BY 2.0 H+ Magazine

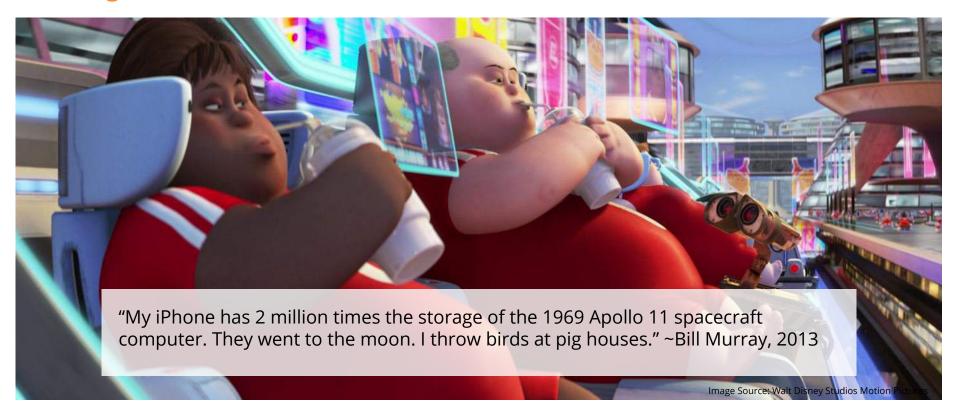
Virtual Reality / Mixed Reality



WE WILL USE THIS TECHNOLOGY - IT'S THE NEW CRYSTAL METH

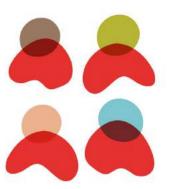


A Bright Future?



Inequality





Skill-Biased Technical Change, Capital-biased Technical Change, Superstar-biased Technical Change

Automation Bias



Automation Bias



Alexander Steinhart / @quanders Ethical Tech - A Psychologist's Perspective



IT'S NOT YOUR FAULT THAT TECHNOLOGY IS DISTRACTING, BUT IT'S YOUR RESPONSIBILITY TO CHANGE SOMETHING

STRATEGY #1:

PEOPLE WHO SHARE A HEALTHY & BALANCED DIGITAL LIFESTYLE



Personal Strategies

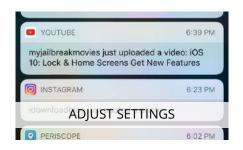




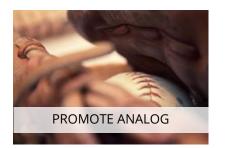


















Alexander Steinhart / @quanders Ethical Tech - A Psychologist's Perspective

STRATEGY #2:

'NEW' DESIGN & TECH PARADIGMS

Free & Open-Source Software









" ... source code made available with a license in which the copyright holder provides the rights to study, change, and distribute the software to anyone and for any purpose ..."

Free & Open-Source Software



















Liberation Technology - "Liberationtech"



The Program on Liberation Technology seeks to understand how i defend human rights, promote economic develo



"[…] seeks to understand how information technology can be used to improve governance, empower the poor, defend human rights, promote economic development, and pursue a variety of other social goods."

"... any form of information and communication technology (ICT) that can expand political, social, and economic freedom." Larry Diamond

Liberation Technology - "Liberationtech"



Asilomar AI Principles



ASILOMAR AI PRINCIPLES

These principles were developed in conjunction with the 2017 Asilomar conference (videos here), through the process described here.



Xxx

Positive Computing/Design

POSITIVE COMPUTING



"Positive Computing is the design and development of technology to support psychological well-being and human potential."

Rafael A. Calvo, Dorian Peters

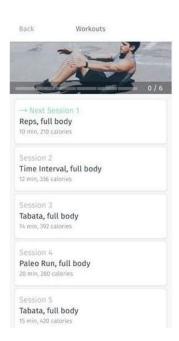
"Positive design initiatives deliberately intend to increase people's subjective well-being and, hence, increase an enduring appreciation of their lives."

Pieter M. A. Desmet and Anna E. Pohlmeyer

Positive Computing/Design

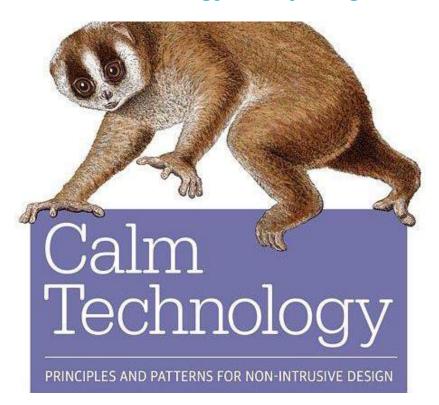






Note: Educating risk savviness still trumps nudging.

Calm Technology/Computing



Technology should be designed to be **a tool and operate in the background** without taking a toll on people's attention. Technology should require the smallest amount of our attention, it should inform, and should be designed for people first.

Mark Weiser, John Seeley Brown

Technology shouldn't require all of our attention, just some of it, and only when necessary.

Amber Case

Calm Technology/Computing





Design for Time Well Spent (Center for Humane Technology)







Technology that cares about helping us spend our time, and our lives, well – not seducing us into the most screen time, always-on interruptions or distractions.

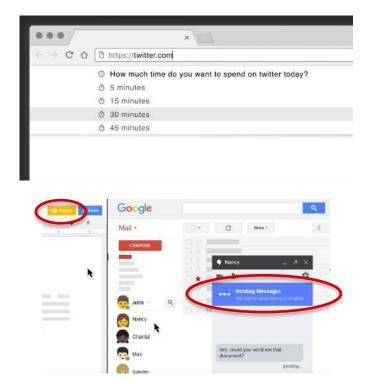
Tristan Harris

WHAT'S THE DIFFERENCE?

What makes a product designed for Time Well Spent versus Time Spent? Here are several distinctions.

	TODAY	WITH TIME WELL SPENT
DESIGN GOAL	We design to keep users active and hooked, while helping them complete tasks.	We design to help users <i>live their life</i> and spend time well, while gaining their loyalty and business.

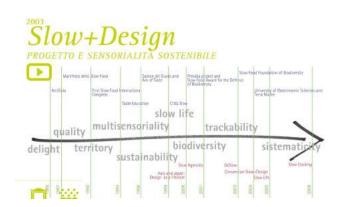
Design for Time Well Spent (Center for Humane Technology)

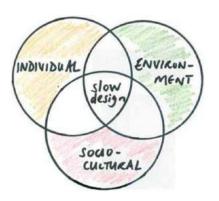




Harris (2016)

Slow Design / Slow Media







Slow Design is a branch of the Slow Movement, which began with the concept of Slow Food, a term coined in contrast to fast food. As with every branch of the Slow Movement, the overarching goal of Slow Design is to promote well being for individuals, society, and the natural environment.

Postdigital



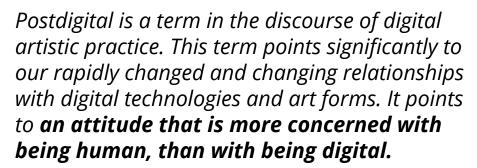
James Bridle



Trevor Paglen



Simon Denny



Ian Andrews, Kim Cascone



!MEDIENGRUPPE BITNIK
Alexander Steinhart / @quanders
Ethical Tech - A Psychologist's Perspective

Postdigital



James Bridle



!MEDIENGRUPPE BITNIK



Trevor Paglen

Alexander Steinhart / @quanders Ethical Tech - A Psychologist's Perspective

Post-Tech



Post-tech (or post-technology, post-digital-technology) describes technology that has as centre the human and supports directly our focus and intend, well-being and independence (from technology) instead of exploiting us, increasing mere efficacy and time spent with digital devices and technology only.

Alexander Steinhart/OFFTIME

Post-Tech



+ enables you to be completely without tech



+ make it an invisible habit to take the medication yourself



+ learn in the end to find your way around without using a tool

PRINCIPLE #1:

DON'T LET TECHNOLOGY DO SOMETHING YOU WOULDN'T DO YOURSELF

PRINCIPLE #2:

USE KPIS THAT DON'T JUST MAXIMIZE FOR ENGAGEMENT & ONLINE TIME - SEEK DEEP METRICS

PRINCIPLE #3:

LOOK AT WHO GAINS AND WHO LOSSES WHAT



PRINCIPLE #4:

RESPECT YOUR USER, THEIR VALUES AND GOALS

(be transparent with yours)



PRINCIPLE #5:

INDIVIDUALS AND INTERACTIONS OVER TOOLS, SOFTWARE AND TECHNOLOGY.



