

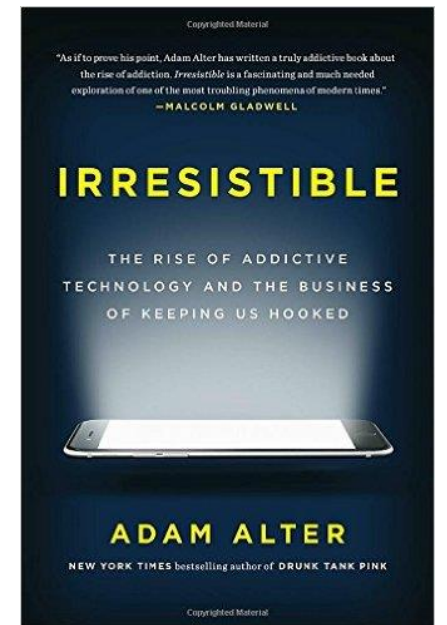
Tech Talks: Tech for Seniors

Addiction by Adam Alter

Center for Learning in Retirement - Fall 2017

Glen Maxson

seniortechadvisor.com



Irresistible:

The Rise of Addictive Technology and the Business of Keeping Us Hooked

Review of a book by Adam Alter

Introduction

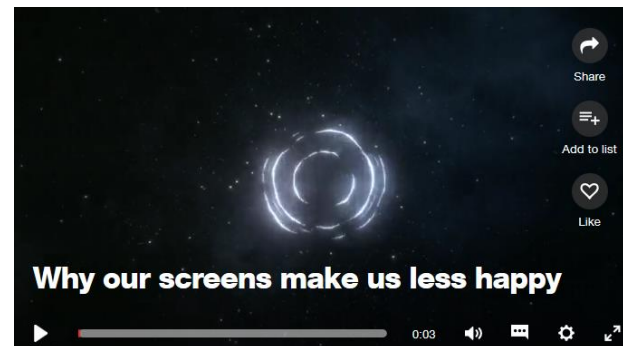
Adam Alter is an Associate Professor of Marketing at New York University's Stern School of Business, with an affiliated appointment in the New York University Psychology Department.



Adam is the *New York Times* bestselling author of two books: *Irresistible* (March, 2017), which considers why so many people today are addicted to so many behaviors, from incessant smart phone and internet use to video game playing and online shopping.



[2017 TED Talk](#)



What are our screens and devices doing to us? Psychologist Adam Alter studies how much time screens steal from us and how they're getting away with it. He shares why all those hours you spend staring at your smartphone, tablet or computer might be making you miserable -- and what you can do about it.

NPR Interview (Mar. 13, 2017)

'Irresistible' By Design: It's No Accident You Can't Stop Looking At The Screen (30:20)

Adam's definition of "addiction"?

It is something you enjoy doing in the short term, that undermines your well-being in the long term — but that you do compulsively anyway.

Play introduction

Modern definitions recognize that addiction is ultimately a bad thing. A behavior is addictive only if the rewards it brings now are eventually outweighed by damaging consequences. Breathing and looking at wooden blocks aren't addictive because, even if they're very hard to resist, they aren't harmful. Addiction is a deep attachment to an experience that is harmful and difficult to do without. Behavioral addictions don't involve eating, drinking, injecting, or smoking substances. They arise when a person can't resist a behavior, which, despite addressing a deep psychological need in the short-term, produces significant harm in the long-term.

The Addicted Brain (Sept. 17 National Geography)

p. 41 – In the Grip of Gaming

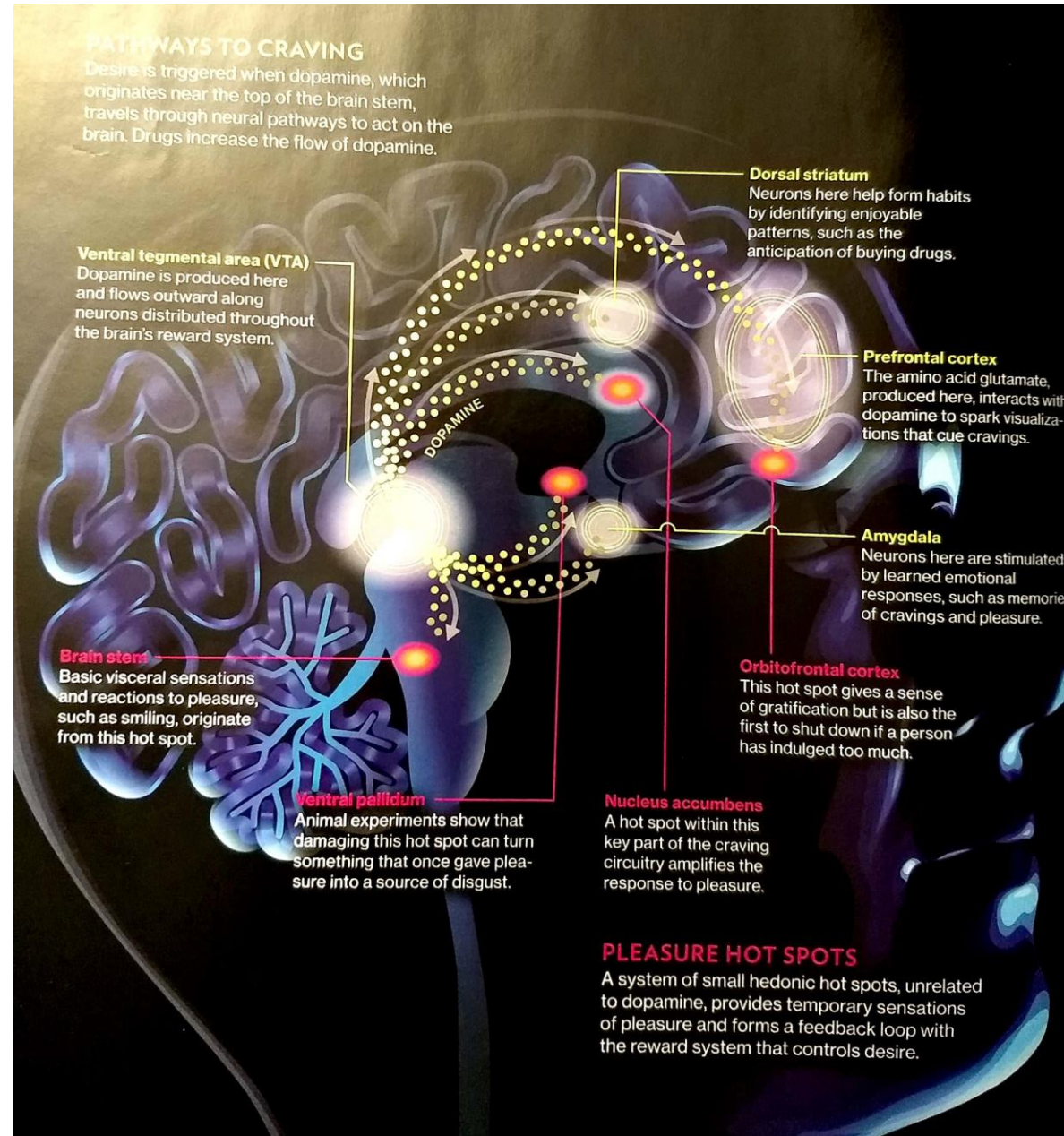
In Seoul, e-stadiums and game parlors charge about a dollar an hour, and some venues are open around the clock. Soon after South Korea made super-high-speed Internet cheap and widely available, it became clear that some people were ruining their lives through obsessive game playing. The government now pays for treatment. The American Psychiatric Association hasn't recognized compulsive gaming as an addiction, but it lists Internet game disorder as 'requiring more study'.

E-Stadiums



Hijacking the Brain

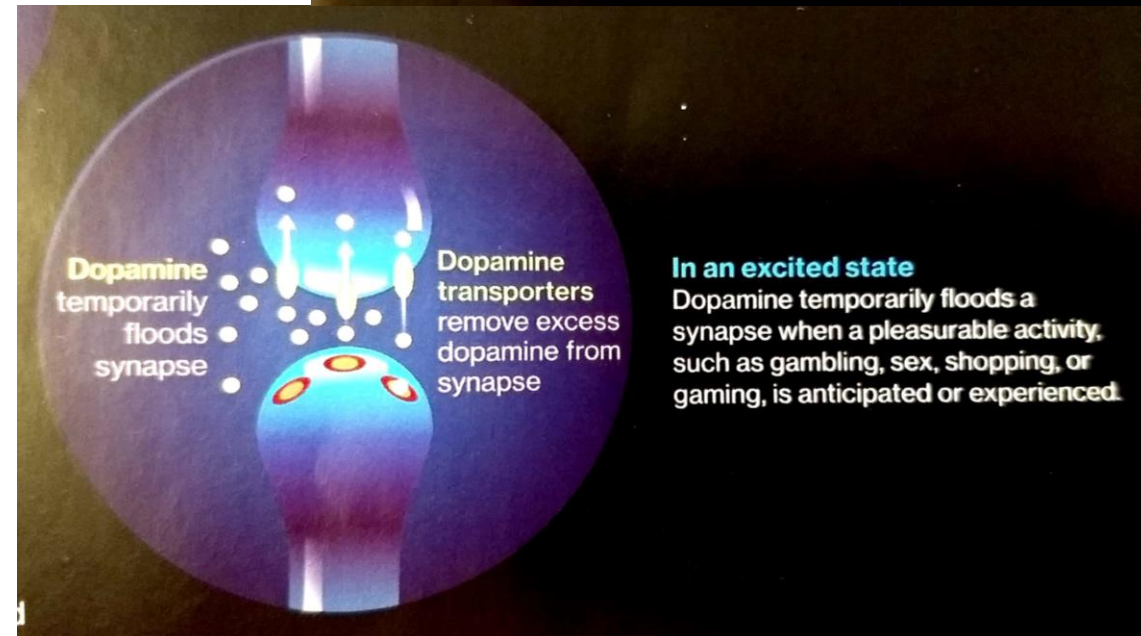
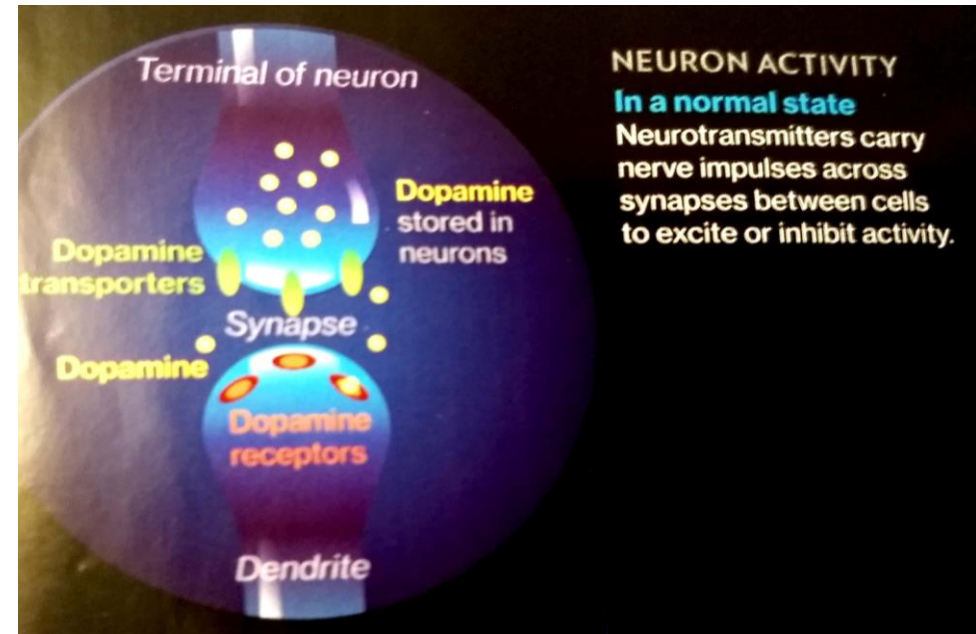
(Natl. Geo. p.42)



Hijacking the Brain (continued)

A NATURAL HIGH

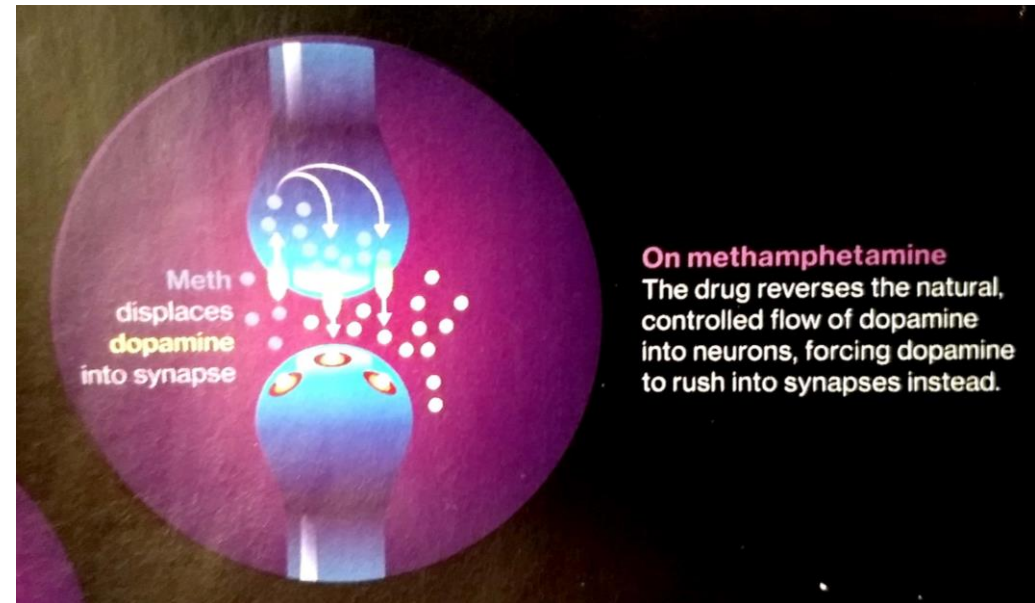
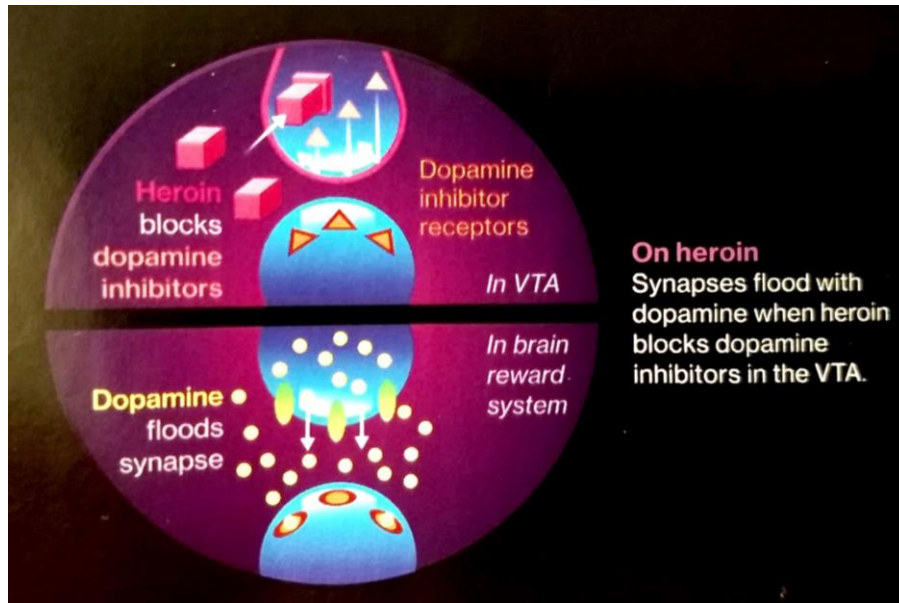
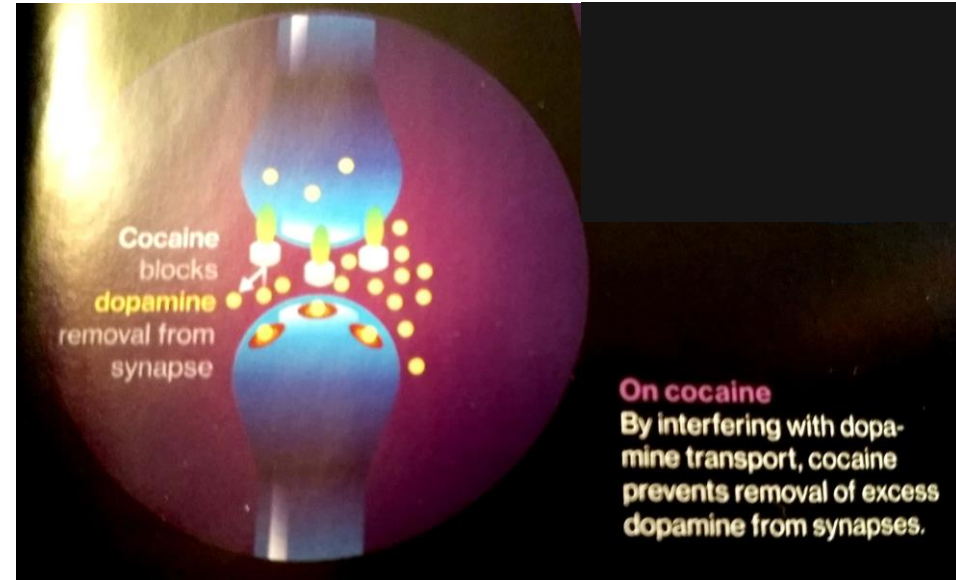
Our brains evolved a dopamine-based reward system to encourage behaviors that help us survive, such as eating, procreating, and interacting socially.



Hijacking the Brain (continued)

A CHEMICAL RUSH

Different drugs interact with the reward system in unique ways to keep synapses artificially flooded with dopamine. That dopamine rush can rewire your brain to want more drugs, leading to addiction.



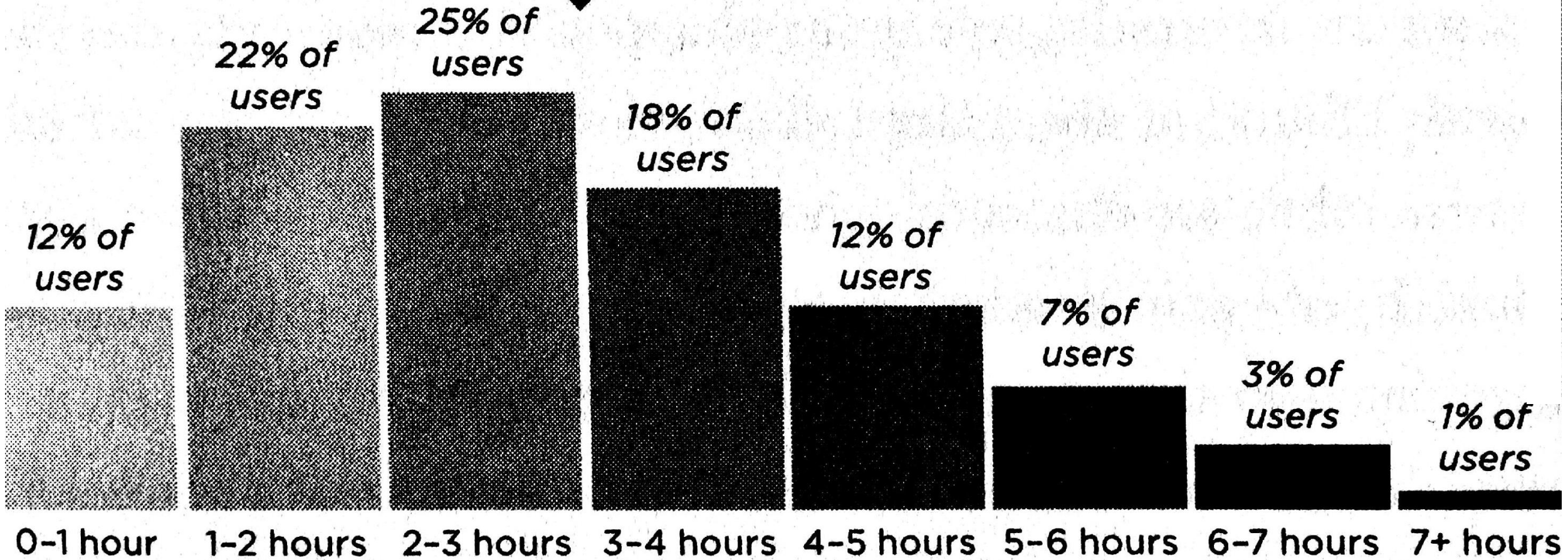
Common 'behavioral addictions':

- Exercise
- Video games
- Gambling
- Work
- E-mail (p 109)
- Social media
- Binge watching
- Hoarding
- ...

What do these have in common?

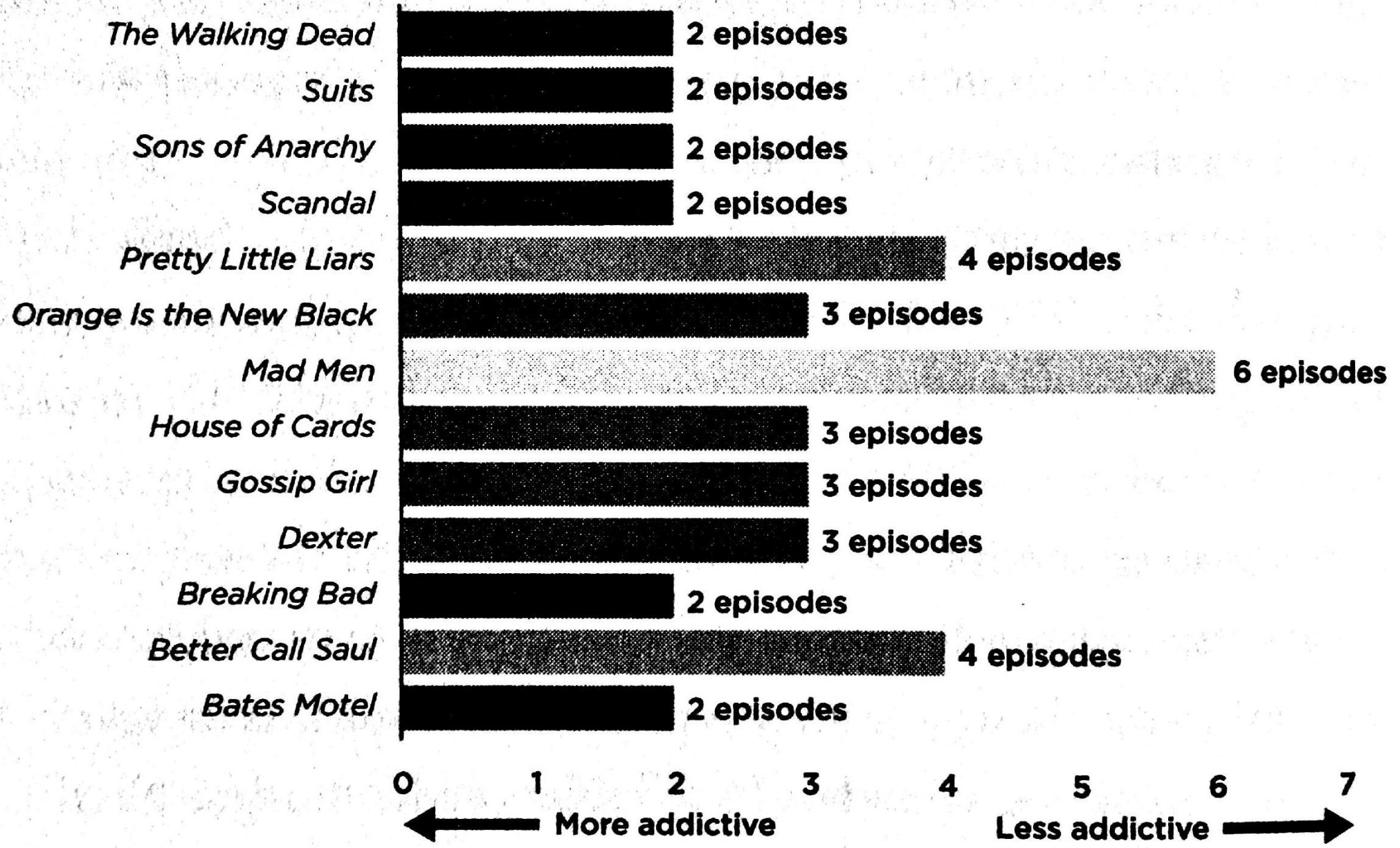
- Behavioral addiction is rooted in environment + circumstance
- Might fulfill a psychological need, obsession, compulsion
- May be detrimental to work, health, hygiene, social interaction...
- Often becomes something we 'want' versus something we 'like'

Overall average: 3 hours



Average daily smartphone screentime

Number of episodes before 70 percent of viewers are hooked



How long do you think the average office email goes unread? I guessed ten minutes. The truth is just six seconds. In reality, 70 percent of office emails are read within six seconds of arriving. Six seconds is less time than it's taken you to read this paragraph so far, but it's long enough for the average worker to disrupt whatever he's doing to open his email program and click on the incoming email. This is hugely disruptive: by one estimate, it takes up to twenty-five minutes to become re-immersed in an interrupted task. If you open just twenty-five emails a day,

What makes tech so 'irresistible'?

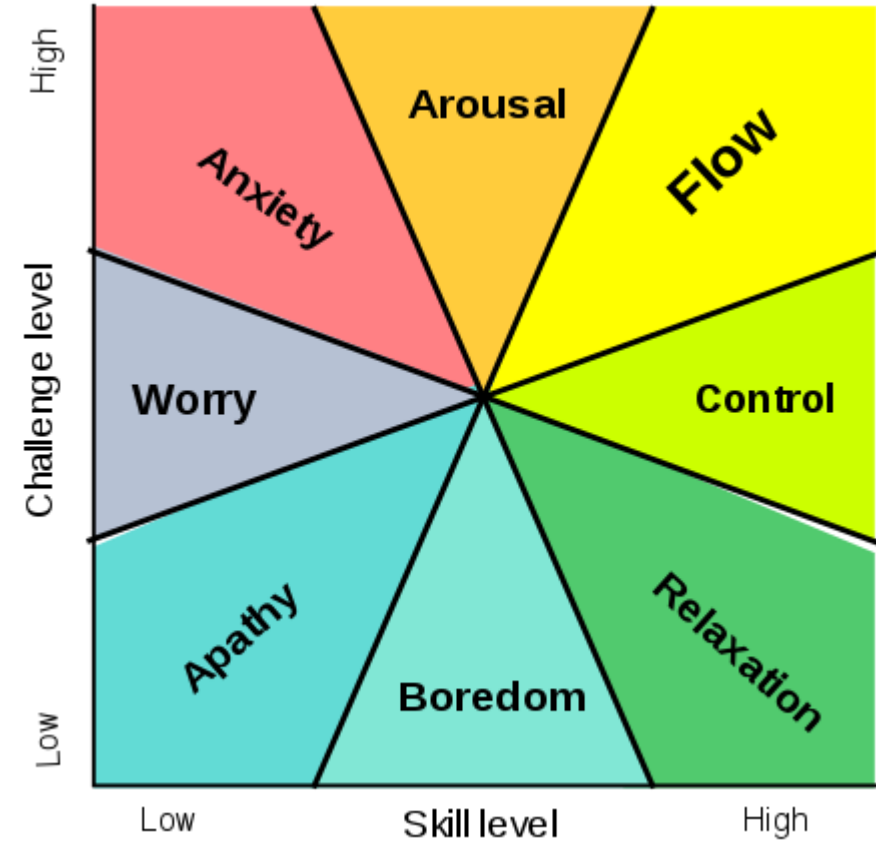
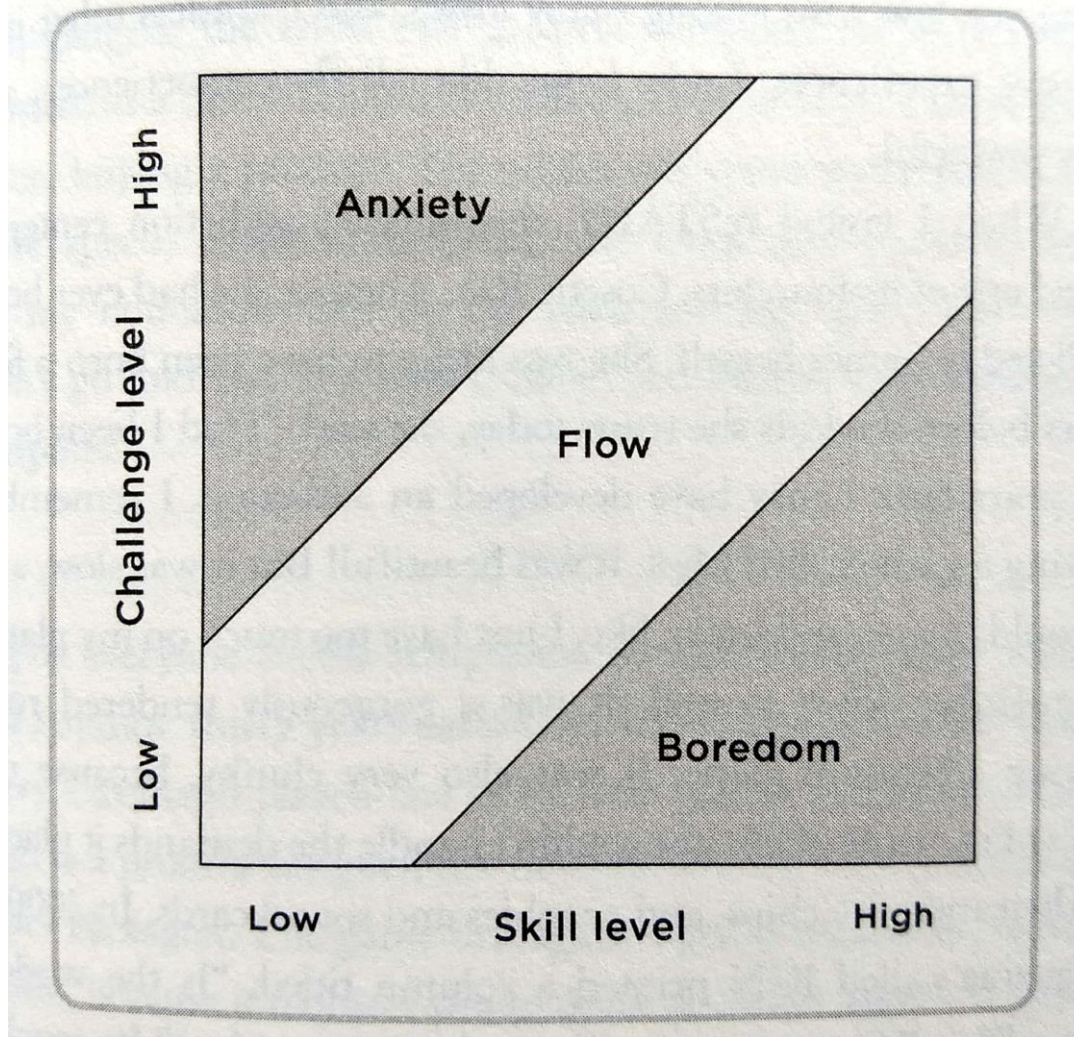
By design,

- Goal setting, perfectionism – time and numbers (e.g. FitBit)
- Classic reinforcement – provide small doses of positive feedback (work)
- Uncertainty - Facebook, Instagram... (social media)
- 'Loss as motivation' – the gambler's paradox (slots)
- Mobile access – iPad and iPhone enabled (mobile devices)
- Ludic loops – complete one challenging element, then the next... (video games)
- 'Flow' - proximal (skill) development – skill vs. challenge (video games)
- Zeigarnik effect – incomplete experiences (e.g. cliff-hangers) (TV shows)
- MUDs & MMOs - immersion, achievement, social (connection) (video games)
- Absence of Stopping rules (all)

Bottomline: Every technique in the book is used to get and keep us hooked!

Play World of Warcraft segment starting at 6:03 minutes

Flow (Mihály Csíkszentmihályi)



How can we resist irresistible tech?

- Assume 'abstinence + will power' are not enough
 - Take the test
- Better is 'suppression + distraction' – need to replace one behavior with something else
- Habits include cue, routine, and reward – change the routine but not the cue or reward
 - Establish 'healthier' habits – nail-biting example
- Replace "I can't" with "I don't" to hasten habit formation
- Establish 'behavioral architecture'
 - Time for work and tech, time for vacation and social interaction
 - Make 'environmental' changes – create distance between you and temptation
 - Design a world that coaxes, cajoles, and compels your future self to do the right thing
 - SNUZNLUZ - <https://www.wired.com/2008/01/snznlz-alarm-cl/>
 - Pavlok - <https://buy.pavlok.com/products/pavlok-1>
- Establish 'stopping rules' that work
- Seek 'Digital Tech Sustainability'

Play ReSTART segment starting at 8:28 minutes

And attention span at 11:00 – 13:45 minutes

- Breem's FreeRice <https://lancewiggs.com/2007/11/12/free-rice-addictive-but-is-it-a-scam/>
- Fitocracy - <https://www.fitocracy.com/>
- Welltok - <https://welltok.com/> (video – 30 seconds)
- Q2L - Quest to Learn - Game-based learning - <http://www.q2l.org/about/> (video – 30 seconds)
- LiveOps - <http://www.liveops.com/>
- Virtual Heros - <http://www.virtualheroes.com/> (<http://virtualheroes.biz/missionbiotech/>)
- Snowworld - <https://www.hitl.washington.edu/projects/vrpain/>
- NeuroRacer - <https://neuroscape.ucsf.edu/technology/#neuroracer>
- Cow Clicker - <https://cowclicker.com/>
- Gilt – <https://www.gilt.com/>
- Moment - <https://itunes.apple.com/us/app/moment-screen-time-tracker/id771541926?mt=8>
- WasteNoTime - <http://www.bumblebeesystems.com/wastenotime/>

SNÜZNLÜZ - WIFI DONATION ALARM CLOCK



If you don't wake up on time, you'll pay the price.

[Read more...](#)

\$39.99 ✓ Presumably

Quantity:

BUY NOW or **add to wish list**

ORDER A PAVLOK + WRISTBAND



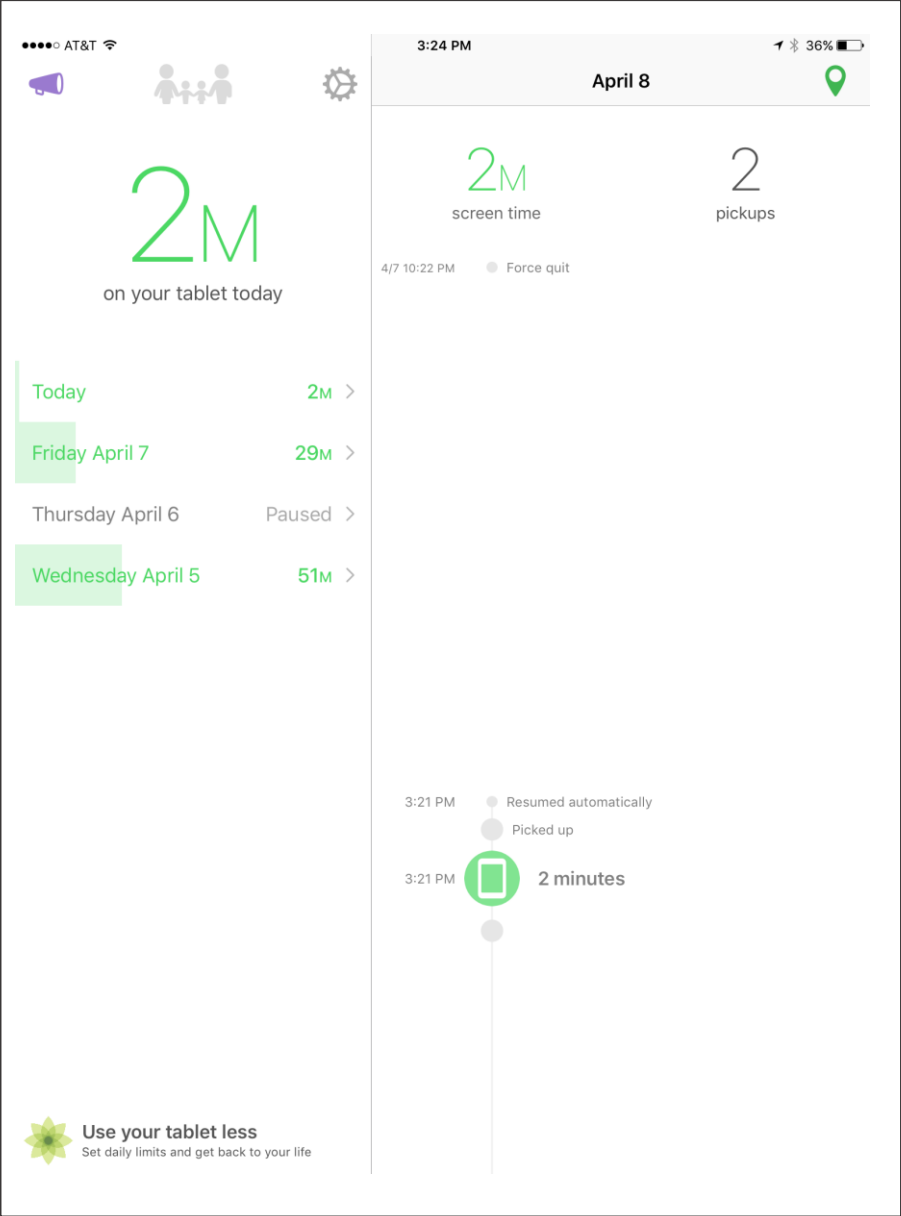
\$ 179.99 ~~\$ 199.99~~

The Pavlok is an award winning wearable device that releases a mild electric stimulus to help you reduce cravings, break bad habits and increase your productivity.



Quantity

Moment on an iPad Mini





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WasteNoTime is a browser extension which is designed to help you manage your time spent on the Internet more efficiently. As seen on [CNet](#), [PCWorld](#), [Forbes](#), and [Wired](#)!

Time Tracker feature gives you reports on what web sites you spent most of your time. **Instant Lockdown** feature allows you to focus on your work for a period of time with limited Internet access. **Time Quota** feature automatically block selected web sites when you have spent a preset amount of time on them each day.

WasteNoTime extension is now available both on [Safari](#) and on [Chrome](#). You may share settings across multiple browsers or multiple computers.



WasteNoTime Time Tracker

This project is inspired by James N. Anderson's [LeechBlock](#) Firefox extension.

A Simple Free Productivity Tool

[Home](#) [Installation](#) [Examples](#) [FAQ](#) [Support](#) [Version History](#)

LeechBlock

LeechBlock is a simple productivity tool: an **extension** for the **Firefox** web browser designed to block those time-wasting sites that can suck the life out of your working day. (You know: the ones that rhyme with 'Blue Cube', 'Space Hook', 'Sticky Media', 'Quitter', and the like.) All you need to do is specify which sites to block and when to block them.

You can specify up to six sets of sites to block, with different times and days for each set. You can block sites within fixed time periods (e.g., between 9am and 5pm), after a time limit (e.g., 10 minutes in every hour), or with a combination of time periods and time limit (e.g., 10 minutes in every hour between 9am and 5pm). With the lockdown feature, you can block sites immediately for a specified duration. You can also set a password or random access code for LeechBlock's options, just to slow you down in moments of weakness!

The sites to block can be specified using wildcards (e.g., `*.somesite.com`) and exceptions (e.g., `+allowme.somesite.com`).

LeechBlock also keeps track of the total amount of time you have spent browsing the sites in each block set.

LeechBlock was inspired by Gina Trapani's **Invisibility Cloak** user script for the **Greasemonkey extension**.

Internet Addiction Test ([IAT](#))

The Internet Addiction Test (IAT) is the first validated measure of Internet Addiction that measures Internet use in terms of mild, moderate, to several levels of addiction.

Based on the following five-point scale, select the response that best represents the frequency of a behavior described in the following 20-item questionnaire.

- 0** = Not Applicable
- 1** = Rarely
- 2** = Occasionally
- 3** = Frequently
- 4** = Often
- 5** = Always

Questions 1 - 10

1. ___ How often do you find that you stay online longer than you intended?
2. ___ How often do you neglect household chores to spend more time online?
3. ___ How often do you prefer the excitement of the Internet to intimacy with your partner?
4. ___ How often do you form new relationships with fellow online users?
5. ___ How often do others in your life complain to you about the amount of time you spend online?
6. ___ How often do your grades or school work suffer because of the amount of time you spend online?
7. ___ How often do you check your e-mail before something else that you need to do?
8. ___ How often does your job performance or productivity suffer because of the Internet?
9. ___ How often do you become defensive or secretive when anyone asks you what you do online?
10. ___ How often do you block out disturbing thoughts about your life with soothing thoughts of the Internet?

Questions 11 - 20

11. ___ How often do you find yourself anticipating when you will go online again?
12. ___ How often do you fear that life without the Internet would be boring, empty, and joyless?
13. ___ How often do you snap, yell, or act annoyed if someone bothers you while you are online?
14. ___ How often do you lose sleep due to late-night log-ins?
15. ___ How often do you feel preoccupied with the Internet when off-line, or fantasize about being online?
16. ___ How often do you find yourself saying “just a few more minutes” when online?
17. ___ How often do you try to cut down the amount of time you spend online and fail?
18. ___ How often do you try to hide how long you’ve been online?
19. ___ How often do you choose to spend more time online over going out with others?
20. ___ How often do you feel depressed, moody, or nervous when you are off-line, which goes away once you’re back online?

Your score and what it means

After all the questions have been answered, add the numbers for each response to obtain a final score. The higher the score, the greater the level of addiction and creation of problems resulting from your Internet usage. The severity impairment index follows:

NONE 0 – 30 points

MILD 31- 49 points: You are an average online user. You may surf the Web a bit too long at times, but you have control over your usage.

MODERATE 50 -79 points: You are experiencing occasional or frequent problems because of the Internet. You should consider their full impact on your life.

SEVERE 80 – 100 points: Your Internet usage is causing significant problems in your life. You should evaluate the impact of the Internet on your life and address the problems directly caused by your Internet usage.







