ADAM ALTER GEAR 03.24.17 07:30 AM

TECH BIGWIGS KNOW HOW ADDICTIVE THEIR PRODUCTS ARE. WHY DON'T THE REST OF US?

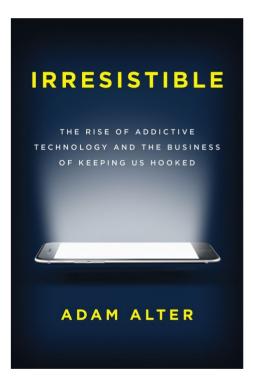


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In late 2010, Steve Jobs told *New York Times* journalist Nick Bilton that his children had never used the iPad. "We limit how much technology our kids

Anderson, the former editor of *WIRED*, enforced strict time limits on every device in his home, "because we have seen the dangers of technology firsthand." His five children were never allowed to use screens in their bedrooms. Evan Williams, a founder of Blogger, Twitter, and Medium, bought hundreds of books for his two young sons, but refused to give them an iPad. And Lesley Gold, the founder of an analytics company, imposed a strict noscreen-time-during-the-week rule on her kids. She softened her stance only when they needed computers for schoolwork.

This is unsettling. Why are the world's greatest public technocrats also its greatest private technophobes? It seemed as if they were following the cardinal rule of drug dealing: never get high on your own supply.



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Many experts both within and beyond the world of tech have shared similar perspectives with me. Several video game designers told me they avoided the notoriously addictive game *World* of Warcraft; an exercise addiction psychologist called fitness watches dangerous—"the dumbest things in the world"—and swore she'd never buy one: and the founder of an Internet addiction clinic told me she avoids gadgets newer than three years old. She has never used her phone's ringer, and deliberately "misplaces" her phone so she isn't tempted to check her email. (I spent two months trying to reach her by email, and succeeded only when she happened to pick up her office landline.)

Facebook has an endless feed; Netflix automatically moves on to the next

episode in a series; Tinder encourages users to keep swiping in search of a better option. Users benefit from these apps and websites, but also struggle to use them in moderation. According to Tristan Harris, a "design ethicist," the problem isn't that people lack willpower; it's that "there are a thousand people on the other side of the screen whose job it is to break down the self-regulation you have."

of addiction is too narrow. We tend to think of addiction as something inherent in certain people—those we label as addicts. Heroin addicts in vacant row houses. Chain-smoking nicotine addicts. Pill-popping prescription-drug addicts. The label implies that they're different from the rest of humanity. They may rise above their addictions one day, but for now they belong to their own category.

In truth, addiction is produced largely by environment and circumstance. Steve Jobs knew this. He kept the iPad from his kids because, for all the advantages that made them unlikely substance addicts, he knew they were susceptible to the iPad's charms. These entrepreneurs recognize that the tools they promote—engineered to be irresistible—will ensnare users indiscriminately. There isn't a bright line between addicts and the rest of us. We're all one product or experience away from developing our own addictions.

Compared to the clunky tech of the 1990s and early 2000s, modern tech is efficient and addictive. The environment and circumstance of the digital age are far more conducive to addiction than anything humans have experienced in our history. In the 1960s, we swam through waters with only a few hooks: cigarettes, alcohol, and drugs that were expensive and generally inaccessible. In the 2010s, those

same waters are littered with hooks. There's the Facebook hook. The Instagram hook. The porn hook. The email hook. The online shopping hook. And so on. The list is long—far longer than it's ever been in human history, and we're only just learning the power of these hooks.

Compared to the clunky tech of the 1990s and early 2000s, modern tech is efficient and addictive. Hundreds of millions of people share their lives in real time through Instagram posts, and just as quickly those lives are evaluated in the form of comments and likes. Songs that once took an hour to download now arrive in seconds, and the lag that dissuaded people from downloading in the first place has evaporated. Tech offers convenience, speed, and automation, but it also brings large costs. Human behavior is driven in part by a succession of reflexive cost-benefit calculations that determine whether an act will be performed once, twice, a hundred times, or not at all. When the benefits overwhelm the costs, it's hard not to perform the act over and over again, particularly when it strikes just the right neurological notes.

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ABOUT
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World of Warcraft mission, or seeing one of your tweets shared by hundreds of Twitter users. The people who create and refine tech, games, and interactive experiences are very good at what they do. They run thousands of tests with millions of users to learn which tweaks work and which ones don't—which background colors, fonts, and audio tones maximize engagement and minimize frustration. As an experience evolves, it becomes an irresistible,

weaponized version of the experience it once was. In 2004, Facebook was fun; in 2016, it's addictive.

Addictive behaviors have existed for a long time, but in recent decades they've become more common, harder to resist, and more mainstream. These new addictions don't involve the ingestion of a substance. They don't directly introduce chemicals into your system, but they produce the same effects because they're compelling and well designed. Some, like gambling and exercise, are old; others, like binge-viewing and smartphone use, are relatively new. But they've all become progressively more difficult to resist.



goal-setting without considering its drawbacks. Goal-setting was a useful motivational tool in the past, because most of the time humans prefer to spend as little time and energy as possible. We're not intuitively hardworking, virtuous, and healthy. But the tide has turned. We're now so focused on getting more done in less time that we've forgotten to introduce an emergency brake.

I spoke to several clinical psychologists who described the magnitude of the problem. "Every single person I work with has at least one behavioral addiction," one psychologist told me. "I have patients who fit into every area: gambling, shopping, social media, email, and so on." She described several patients, all with high-powered professional careers, earning six figures, but deeply hobbled by their addictions. "One woman is very beautiful, very bright, and very accomplished. She has two master's degrees and she's a teacher. But she's addicted to online shopping, and she's managed to accumulate \$80,000 in debt. She's managed to hide her addiction from almost everyone she knows."

This compartmentalization was a common theme. "It's very easy to hide behavioral addictions—much more so than for substance abuse. This makes them dangerous, because they go unnoticed for years."

'Social media has completely shaped the brains of the younger people I work with.'

A second patient, just as accomplished at work, managed to hide her Facebook addiction from her friends. "She went through a horrible breakup, and then stalked her ex-boyfriend online for years. With Facebook it's far more difficult to make a clean break when

relationships end." A man she saw checked his email hundreds of times a day. "He's incapable of relaxing and enjoying himself on vacation. But you'd never know. He's deeply anxious, but he presents so well in the world; he has a successful career in the healthcare industry, and you'd never know how much he suffers."

"The impact of social media has been huge," a second psychologist told me. "Social media has completely shaped the brains of the younger people I work with. One thing I am often mindful of in a session is this: I could be five or ten minutes into a conversation with a young person about the argument they have had with their friend or girlfriend, when I remember to ask whether this happened by text, phone, on social media, or face-to-face. More often the answer is, 'text or social media.' Yet in their telling of the story, this isn't

differentiate various modes of communication the way I do . . . the result is a landscape filled with disconnection and addiction."

Irresistible traces the rise of addictive behaviors, examining where they begin, who designs them, the psychological tricks that make them so compelling, and how to minimize dangerous behavioral addiction as well as harnessing the same science for beneficial ends. If app designers can coax people to spend more time and money on a smartphone game, perhaps policy experts can also encourage people to save more for retirement or donate to more charities.

Technology is not morally good or bad until it's wielded by the corporations that fashion it for mass consumption. Apps and platforms can be designed to promote rich social connections; or, like cigarettes, they can be designed to addict. Today, unfortunately, many tech developments do promote addiction.

In many respects, substance addictions and behavioral addictions are very similar. They activate the same brain regions, and they're fueled by some of the same basic human needs: social engagement and social support, mental stimulation, and a sense of effectiveness. Strip people of these needs and they're more likely to develop addictions to both substances and behaviors.

Recovering alcoholics manage to avoid bars altogether, but recovering Internet addicts are forced to use email. Behavioral addiction consists of six ingredients: compelling goals that are just beyond reach; irresistible and unpredictable positive feedback; a sense of incremental progress and improvement; tasks that become slowly more difficult over time; unresolved tensions that demand resolution; and strong social connections. Despite their diversity,

today's behavioral addictions embody at least one of those six ingredients. Instagram is addictive, for example, because some photos attract many likes, while others fall short. Users chase the next big hit of likes by posting one photo after another, and return to the site regularly to support their friends. Gamers play certain games for days on end because they're driven to complete missions, and because they've formed strong social ties that bind them to other gamers.

So what are the solutions? How do we coexist with addictive experiences that play such a central role in our lives? Millions of recovering alcoholics manage to avoid bars altogether, but recovering Internet addicts are forced to use email. You can't apply for a travel visa or a job, or begin working,

in a way that addictive substances never will be.

Abstinence isn't an option, but there are other alternatives. You can confine addictive experiences to one corner of your life, while courting good habits that promote healthy behaviors. Meanwhile, once you understand how behavioral addictions work, you can mitigate their harm, or even harness them for good. The same principles that drive children to play games might drive them to learn at school, and the goals that drive people to exercise addictively might also drive them to save money for retirement.

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The age of behavioral addiction is still young, but early signs point to a crisis. Addictions are damaging because they crowd out other essential pursuits, from work and play to basic hygiene and social interaction. The good news is that our relationships with behavioral addiction aren't fixed. There's much we can do to restore the balance that existed before the age of smartphones, emails, wearable tech, social networking, and on-demand viewing. The key is to understand why behavioral addictions are so rampant, how they capitalize on human psychology, and how to defeat the addictions that hurt us, and harness the ones that help us.

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