

Why We Choose Less Today Over More Tomorrow: The Psychology of Impatience

By Jiah Daulat

Introduction

“You promise yourself you'll start studying tomorrow. Then tomorrow comes—and you say the same thing. Why do we keep choosing short-term comfort over long-term gain, even when we know better?” You open Instagram for five minutes, and an hour disappears. You skip the gym for Netflix, and postpone saving money because “you'll start next month.” These aren't just habits—they're part of a deeper psychological bias hardwired into human behaviour: hyperbolic discounting.

Hyperbolic discounting is a cognitive bias where people choose smaller, immediate rewards rather than larger, later rewards. It occurs more when the delay is closer to the present than the future—to put it plainly, it is a cognitive bias that stems from impatience (Ainslie, 1975). Taking the common classic example of the so-called “healthy attempt to follow a strictly maintained diet,” when you know you should eat healthy, but choose fast food for immediate satisfaction. You tell yourself you'll start the diet 'next week.' The future benefit (being healthier) is less tempting than the instant reward of taste.

This bias is relevant because it explains why people tend to prefer immediate gratification over larger, delayed rewards, which can lead to poor decision-making and impulsive behaviours (Laibson, 1997). It affects various aspects of life, from personal finance and health to addiction and marketing strategies, making it a key concept in behavioural economics (Frederick, Loewenstein, & O'Donoghue, 2002). This paper explores how hyperbolic discounting influences decision-making in areas such as personal finance, health, and digital behaviour, especially among young individuals.

Theoretical Background

The concept of hyperbolic discounting was first discussed in Richard Herrnstein's “matching law,” where he observed that individuals act in proportion to the reinforcement they receive for behaviours (Herrnstein, 1961). In other words, if given the choice between scrolling through TikTok for 10 minutes or watching your favourite sports team for 5 minutes, you would choose the option that brings more enjoyment. Moreover, Herrnstein noticed that immediacy matters—people often value smaller rewards received sooner more than larger rewards received later.

George Ainslie (1975) expanded on this, showing that when the smaller, earlier reward is preferred, increasing the delay for both rewards can reverse preferences—a phenomenon that follows a hyperbolic curve. This reveals that human choices are time-inconsistent: people may prefer one option today but a different one tomorrow.

Key aspects of hyperbolic discounting include:

- Time Inconsistency: Preferences shift as the delay to a reward decreases (O'Donoghue & Rabin, 1999).
- Impact on Behaviour: It explains real-world behaviours like procrastination, impulsive spending, and difficulty sticking to long-term goals.
- Relation to Addiction: Studies show that individuals with addiction heavily discount future rewards compared to non-addicted individuals (Bickel & Marsch, 2001).
- Evolutionary Perspective: Some theories suggest hyperbolic discounting evolved as a survival heuristic, favouring immediate rewards in environments with uncertain futures (Stevens & Stephens, 2010).

Applications in Real Life

a) Personal Finance — Young adults frequently under-save due to present bias. Studies show those exhibiting hyperbolic discounting accumulate less wealth and incur higher credit card debt (Laibson, 1997; Angeletos et al., 2001).

- b) Health & Wellness — Delay discounting explains why people choose junk food or skip exercise despite long-term health goals (Story et al., 2008). Immediate pleasure outweighs future benefits.
- c) Education— Student procrastination arises from the same bias. Students often choose short-term entertainment over study time, even if it harms their long-term goals (Ariely & Wertenbroch, 2002).
- d) Digital Economy — Platforms like Instagram or TikTok exploit hyperbolic discounting through variable reward loops, autoplay, and infinite scroll, reinforcing short-term engagement (Alter, 2017; Lembke, 2021).

How to Overcome Hyperbolic Discounting

1. Pre-Commitment Strategies— Setting automatic savings or self-imposed deadlines helps override impulsivity (Thaler & Benartzi, 2004). Gym memberships and prepaid programs serve as commitment devices.
2. Nudges & Defaults — Auto-enrollment in beneficial programs (e.g., retirement savings) and reminders increase participation (Sunstein & Thaler, 2008).
3. Digital Tools & Controls — Apps like Forest or ScreenZen impose breaks and visual reminders, reducing impulsive screen use.
4. Mindfulness & Visualization— Regular mindfulness and imagining future rewards help people align actions with long-term goals (Kabat-Zinn, 1990).

Conclusion

Hyperbolic discounting is not just a theoretical construct—it shapes our daily behaviour in finance, health, education, and technology. Recognizing this bias is crucial for improving self-control and aligning actions with long-term values. By employing pre-commitment strategies, digital nudges, and mindfulness, individuals can resist the lure of immediate rewards and make decisions that better serve their future selves. Awareness and deliberate practice can help counter the psychology of impatience and lead to more sustainable well-being.

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