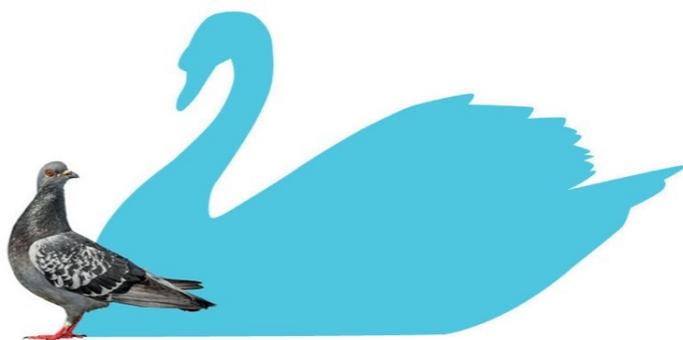


# How to Change



The Science of Getting from  
Where You Are to  
Where You Want to Be

Katy Milkman

Foreword by Angela Duckworth

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“A much-needed, easy-to-follow instruction manual for understanding what stops you from achieving your personal goals and how you can do better.”  
—Laurie Santos, host of *The Happiness Lab*

“This extraordinary guide left me with that magical feeling that change is possible.”  
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“You will learn, grow, and be inspired by the personal accounts and engaging research highlighting the science of behavior change. This book is a must read!”  
—Modupe Akinola, associate professor of management, Columbia Business School; host of *TED Business*

# HOW TO CHANGE

The Science of Getting  
from Where You Are  
to Where You Want to Be

**Katy Milkman**

*Foreword by Angela Duckworth*



Portfolio/Penguin

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LIBRARY OF CONGRESS CATALOGING-IN-PUBLICATION DATA

Names: Milkman, Katherine L., author.

Title: How to Change : The Science of Getting from Where You Are to Where You Want to Be / Katy Milkman ; foreword by Angela Duckworth.

Description: [New York] : Portfolio/Penguin, an imprint of Penguin Random House LLC, [2021] | Includes bibliographical references and index.

Identifiers: LCCN 2021006495 | ISBN 9780593083758 (hardcover) | ISBN 9780593332597 (international edition) | ISBN 9780593083765 (ebook)

Subjects: LCSH: Change (Psychology) | Self-actualization (Psychology) | Behavior modification.

Classification: LCC BF637.C4 M54 2021 | DDC 158.1—dc23

LC record available at <https://lccn.loc.gov/2021006495>

Book design by Cassandra Garruzzo, adapted for ebook by Estelle Malmed

pid\_prh\_5.7.0\_c0\_r0

*This book is dedicated to the two families that made my scientific career possible:*

*First, to my husband, Cullen; my son, Cormac; and my parents, Bev and Ray*

*Second, to my academic family: my mentor, Max; my fellow Max advisees and collaborators, John, Todd, Dolly, and Modupe; my current partner in crime, Angela; and my mentees, Hengchen, Edward, Erika, and Aneesh*

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## Foreword

**B**efore I met Katy in person, here's what I'd heard from colleagues who knew her well.

“Smartest person you'll ever meet.”

“Crazy productive. Will make you feel like a slacker.”

“A machine. I mean, what I do in a week, she does in a day.”

What sort of superhuman is Katy Milkman?

Because I now count myself among her awestruck colleagues, I can tell you that in many ways, Katy *is* the smartest person I've ever met, by far the most productive, and yes, what she is able to accomplish, by comparison, does make me feel like I'm moving in slow motion.

But Katy is not, in fact, superhuman. Instead, she is what you and I aspire to be, and what she shows us in this book all of us can be: a *super* human.

By that I mean that Katy Milkman is a master of human nature. She has figured out how to line up her actions with her goals and dreams. Her first attempts—at anything—may not be perfect, but literally whatever Katy cares about, she quickly learns how to do better and better, faster and faster, and more and more efficiently. And as a world-renowned behavioral scientist who has spent her entire career on these questions, she understands how hard it can be to be human, and how we can all do a better job of it, at the deepest level.

Though it wasn't obvious at the beginning of our friendship, I now see that Katy copes with the same fallibilities we all share. She wants to eat cookies and potato chips instead of apples and spinach. She'd rather procrastinate than get back to work. She is capable of anger and impatience.

An engineer by training and by temperament, Katy approaches any of these challenges as problems to be solved. And it is that mind-set, I think, that makes Katy such a *super* human.

In other words, what Katy has learned is that the secret to a better life is not to eradicate the impulses that make us human but instead to understand them, outsmart them, and whenever possible, to make them work for us rather than against us.

For me, the lessons Katy has to share have improved my life enormously. I get in my ten thousand steps more often. I write emails more quickly. In a thousand ways, she has helped me find hacks to make my life easier and better.

Many of the lessons Katy shares in this book grew out of the work we do together at the Behavior Change for Good Initiative—an ambitious project we’ve led for the past five years, investigating what it takes to change habits. We’ve studied new ways to increase daily gym attendance, charitable giving, vaccination rates, and student achievement, and we’ve developed new methods for advancing the science of behavior change. But two people could never tackle such a challenging question alone, so Katy and I have assembled a team of more than a hundred leading intellectuals from around the world, each trained in different traditions, including economics, medicine, law, psychology, sociology, neuroscience, and computer science. In this book, you’ll learn not only about Katy’s work and our work together, but also about the work of our many remarkable collaborators.

Every book is like a conversation with its author. So you have to be picky about the books you read. With your limited time, you want a conversation partner who can teach you something you didn’t know. And you want to *like* the person with whom you’re in dialogue. You want to enjoy your time together. You want to know they really have your best interests at heart.

And that is why you should keep reading this book, all the way to its end. Undoubtedly, you are like most people I know in that you are trying to change one habit or another for the better. Quite likely, you’ve attempted to change in the past, repeatedly. You’ve wondered, *Why is it so very hard to get from where I am to where I want to be?*

In these pages, Katy will teach you things you didn’t know. You’ll learn how important it is to get the timing right for kick-starting a new habit. You’ll learn

that forgetting is the silent killer of even our most ardent resolutions. You'll learn that making hard things seem fun is a much better strategy than making hard things seem important.

And most important, throughout the entire conversation, you'll hear Katy asking you, with warmth and humor and a healthy sense of her own limitations, as well as a masterful understanding of human motivation and behavior: "What's your problem?"

You'll feel like she truly cares about helping you change. You'll feel like you're friends with a world-class behavioral scientist who is walking by your side, helping you understand yourself better, and helping you, too, become a *super* human.

You'll try out some of the ideas she suggests. You'll wonder why you hadn't thought of them before Katy suggested them. And you'll learn an approach to life that will generate strategies that even Katy hasn't thought of yet.

One day, people just getting to know you may wonder whether you are somehow immune to the impulses and conflicts that beset normal people. They may compliment you on your crazy productivity. They may ask you for your advice on how to get more done in a day.

And you may choose to introduce them to your friend Katy. "Read this," you'll say with a knowing smile. "We all struggle to line up what we do with what we want. I did, too. Then I learned how to see every impasse in my life as a specific problem to be solved."

You'll assure them that the secret to a better life is not to be superhuman, without desires and quirks and vulnerabilities, but instead to be a problem solver, equipped with the latest scientific knowledge.

I truly believe that this book could be a fresh start for you. I'm so happy you're ready to begin.

***Angela Duckworth***

## ***Introduction***

It was early 1994 and Andre Agassi's tennis career was veering dangerously off track. All his life, Agassi had been assured he would go down in history as one of the greats of his sport. When he turned pro at age sixteen in 1986, pundits lauded him for his natural talent, impressed by his uncanny ability to take control of points and his gift for hitting seemingly impossible shots on defense. But by 1994 it wasn't a stellar record on the court that had won Agassi fame—it was his style. In a sport known for decorum, Agassi wore ripped jeans and tie-dyed shirts to tournaments. He grew his hair long and sported an earring. He cursed like a sailor on the court. He even starred in a splashy ad campaign for Canon with the provocative slogan “Image Is Everything.”

When it came to tennis, though, Agassi was falling laughably short of expectations. He too often lost early in tournaments to players with far less skill—a first-round flameout at a small tune-up in Germany, a third-round defeat at a Grand Slam. His ranking kept slipping, from seventh in the world to twenty-second, then to thirty-first. Agassi's coach of ten years had recently and unceremoniously dropped him; Agassi learned the news while reading *USA Today*. He'd taken to telling people he hated tennis.

Agassi needed a change.

Which is why he found himself eating dinner one evening at Porto Cervo, a favorite restaurant of his near Miami, across from Brad Gilbert, a fellow pro tennis player. Gilbert's approach to tennis was the polar opposite of Agassi's: fastidious, methodical, and inelegant. He lacked Agassi's obvious gift for the game. And yet Gilbert, then thirty-two years old, had been ranked among the world's top twenty players for years, even reaching number four in 1990, much

to the surprise of tennis aficionados. Just a few months before the dinner with Agassi, Gilbert had detailed his unusual approach to tennis in an instant bestseller called *Winning Ugly*.

It was *Winning Ugly* that had prompted the dinner. After reading the book, Agassi's manager had encouraged his struggling client to talk with Gilbert. Agassi needed a new coach, and his manager had a hunch that Gilbert, who was old enough to consider retiring from the pro tour, might be the person who could turn Agassi's career around. Agassi had agreed to the meeting, but as he would later recount in his brilliant 2009 autobiography, *Open*, he was skeptical. Gilbert was known for his peculiarities, both on and off the court, and as the dinner unfolded, he only added to Agassi's uncertainty. First, Gilbert refused an outdoor seat with an ocean view (citing a mosquito phobia). Then, upon discovering his favorite beer wasn't on the menu, he dashed to a nearby market to pick up a six-pack and insisted it be stored on ice in the restaurant's freezer.

It took a while for the group to get settled but when they finally did, Agassi's manager opened with a question for Gilbert. What, he asked, did Gilbert think of his client's game? Gilbert took a long swig of his drink and swallowed slowly. He didn't mince words. If he had Agassi's skills and talent, he replied, he'd be dominating the pro tour. As he saw it, Agassi was misusing his gifts: "You try to hit a winner on every ball," he said. It was a serious shortcoming. No one can hit an outright winner on every shot, Gilbert pointed out, and trying to do so was eroding Agassi's confidence bit by bit each time he fell short. Having played against (and beaten) Agassi many times, Gilbert had witnessed this pattern firsthand.

Agassi could see the wisdom in this assessment. He'd always been a perfectionist, but until Gilbert's remarks, he'd viewed that trait as a strength rather than a weakness. Growing up, he'd learned to go for the kill from his father, an Olympic boxer who was perpetually hunting for the knockout blow—the one punch that would vanquish his opponent. During training sessions on the homemade court in their backyard, the Olympian had echoed the advice of his former boxing coach. "Hit *harder!*" he'd yell at his five-year-old son. "Hit earlier!" Agassi had long considered his exceptional ability to hit knockout shots an advantage. Gilbert was saying it was his Achilles' heel.

To win, Gilbert continued, Agassi needed to shift his focus. “Stop thinking about yourself,” he admonished, “and remember that the guy on the other side of the net has weaknesses.” It was Gilbert’s uncanny ability to size up his opponents that allowed him to beat far better players. He didn’t try for a knockout to claim each point; he found a strategy that eased that burden. “Instead of you succeeding,” Gilbert said, “make him fail. Better yet, *let him fail.*”

Because Agassi was looking to hit a perfect shot every time, Gilbert explained, he was “stacking the odds against” himself and “assuming too much risk.”

Gilbert’s message was simple: the self-focused approach to tennis on which Agassi had built his career was not the best approach—not if he wanted to win. There was a better way—one that required sizing up the competition and tailoring his game to capitalize on his opponents’ weaknesses. It might be a less dazzling style of tennis than Agassi was used to playing, but it would be more effective.

Fifteen minutes into the conversation, Gilbert got up to use the restroom. Agassi immediately turned to his manager. “That’s our guy,” he said.

A few months later, Agassi entered the U.S. Open unseeded—he wasn’t even expected to crack the top sixteen. But with Gilbert’s coaching, his style had changed. He faced an old rival early on—the tournament’s sixth seed, Michael Chang—and remained unshaken in a nail-biter, holding on to win by the thinnest of margins. He took out the ninth seed with ease, recognizing his opponent’s “tell”—a tendency to look at the spot where he planned to hit his serves—and exploiting that weakness.

And, suddenly, Agassi had reached the finals. There was 550,000 dollars in prize money on the line, but far more in pride. It was Agassi’s chance to prove himself—to show everyone that he could live up to the hype after all.

His opponent was Michael Stich, a German champion and the tournament’s number four seed. Agassi came out strong, hitting crisp, clean balls on point after point. He won the first set handily, then eked out the second set in a tiebreaker. But Stich wasn’t ready to fold. In the third set he hung with Agassi on long rallies and made him work for every point; eventually, the set was tied at five games apiece. The most direct path to victory would require Agassi to break

serve, which meant besting Stich when he had the advantage of beginning each point.

Agassi's confidence began to waver. Stich wasn't giving up—he kept blasting powerful serves, one after another. But then Agassi noticed Stich gripping his side, the telltale sign of a cramp, and saw his opening. He broke Stich's serve. He was four points away from winning his first U.S. Open Championship—the sweetest of possible victories for a struggling onetime phenom whom the oddsmakers had counted out.

Before hiring Gilbert, Agassi was notorious for falling apart in high-pressure matches. He went for too many knockouts, took too many risks, and blew it when he should have held steady. But now Agassi stayed focused. Instead of going for winners, he concentrated on keeping the ball in play. He could hear Gilbert's voice in his head: "Go for his forehand. When in doubt, forehand, forehand, forehand." And he stayed on task. He hit the ball over and over again to Stich's forehand, his feeblest shot. And on match point, Stich missed.

The tournament was over. Agassi fell to his knees with tears in his eyes. He was the first unseeded player to take home a U.S. Open trophy in twenty-eight years. He'd made history.

...

If you've ever tried to make a big change to your life—to accomplish more at work or in school, to get in shape for a marathon, to build a nest egg for retirement—then you know there's a lot of advice out there about how to succeed. In fact, you've probably tried acting on some of it. Maybe you've tracked your steps with a Fitbit or set calendar reminders on your phone to practice deep-breathing exercises on your lunch break. Perhaps you've cut out your afternoon coffee habit, putting the money you would have spent at the café into a savings account. You know your goals should be specific and measurable. You know the power of positive thinking and incremental progress. You know it's helpful to have a support group.

Thanks to a booming popular interest in behavioral science, the last two decades have seen an explosion of new research and information—TED talks,

books, workshops, apps—about practical tools that can help you change your behavior and encourage others to do the same.

But, as you've likely noticed, widely touted techniques don't always help you, or others, change. You forget to take your medication *again*, in spite of downloading that goal-setting app to help. You procrastinate on that big quarterly report for your boss in spite of setting daily reminders to work on it. Your employees don't take advantage of company-sponsored educational programs or retirement benefits even when they're offered rewards for signing up.

Why is it that these tools and techniques designed to spur change so often fail? One answer is that change is hard. But a more useful answer is that you haven't found the right strategy. Just as Andre Agassi spent years falling short of his potential by playing tennis with the wrong approach, we often fail by applying the wrong tactics in our attempts at change. Like Agassi, we search for solutions that will deliver the quick knockout victory and tend to ignore the specific nature of our adversary.

But to give yourself the best chance at success, it's critical to size up your opponent and develop a strategy tailored to overcome the particular challenges you face. The surest path to success is not one-size-fits-all. Instead, you must match your approach to your opponent.

In tennis, there's a generic playbook that works reasonably well: hit hard serves; run your opponent side to side; get to the net whenever you can. It's not a bad strategy. But if you're a really good tactician, like Gilbert, you'll take advantage of the fact that specific opponents have specific weaknesses. Maybe the player you're facing can't handle a low slice to the backhand side. You can torture them with that shot again and again and winning will be far easier.

Behavior change is similar. You can use an all-purpose strategy that works well on average. Set tough goals and break them down into component steps. Visualize success. Work to create habits—tiny ones, atomic ones, keystone ones—following the advice laid out in self-help bestsellers. But you'll get further faster if you customize your strategy: isolate the weakness preventing progress, and then pounce.

As an undergraduate and later as a PhD student in engineering, I was deeply bothered by the pesky human problems my friends and I couldn't seem to avoid.

Why did I find it so hard to stop watching *Lost* and study for my tests? Why couldn't I get myself to go to the gym more regularly? Why did my roommates always put off homework until the last minute and eat Lucky Charms and Frosted Flakes for every meal? As an engineer who spent much of her time solving more technical problems, I was certain there must be a way to overcome these human struggles.

Then one day, during a required graduate course on microeconomics, I was introduced to behavioral economics—an entire field devoted to understanding, with analytical rigor and empirical depth, when and why people make flawed decisions. I was particularly taken with the idea of “nudging” people toward better choices, which was gaining popularity around the time I started my PhD. The founders of the “nudge movement,” scholars Cass Sunstein and Richard Thaler, argued that because humans make predictably imperfect decisions, managers and policy makers can and should help them avoid common mistakes. The idea was that by nudging people toward objectively better choices (say, by putting healthy foods at eye level in the cafeteria or by simplifying the paperwork necessary to apply for government aid), you could improve their lives at little to no cost without restricting their freedom.

Suddenly, I realized it might be possible to develop nudges to tackle familiar problems, such as binge-watching *Lost* or failing to exercise. So I jumped on the nudge bandwagon, exploring how to nudge both myself and others into healthier choices and better financial decisions. Soon I was a gym regular and *Lost* marathons were in my rearview mirror.

But my interest in the power of nudging took on a new urgency a few years later when, as a newly minted assistant professor at Wharton, I was confronted with strong evidence that our small, daily failures to exercise or eat healthfully aren't trifling human foibles, but rather are serious matters of life and death. During an otherwise dull academic presentation, I encountered a pie chart that's been burned into my mind's eye ever since. The chart broke down why most Americans die earlier than they should. It turns out that the leading cause of premature death isn't poor health care, difficult social circumstances, bad genes, or environmental toxins. Instead, an estimated 40 percent of premature deaths are the result of personal behaviors we can change. I'm talking about daily, seemingly small decisions about eating, drinking, exercise, smoking, sex, and

vehicle safety. These decisions add up, producing hundreds of thousands of fatal cancers, heart attacks, and accidents each year.

I was floored. I sat up a little straighter and thought, “Maybe I can do something about that forty percent.”

And it was more than matters of life and death that grabbed my attention. While I’ve never seen a pie chart dissecting how our daily decisions affect our prosperity and our happiness, it stands to reason that our missteps accumulate in those areas of life, too.

Eager to make a difference, I shifted my focus and devoted nearly all of my waking hours to poring over research papers—old and new—exploring the science of behavior change. I talked with dozens of scholars from diverse disciplines about their most successful ideas, as well as their failed studies. And I worked with small start-ups as well as industry giants, such as Walmart and Google, to develop tools for nudging better decisions. As I tried to make sense of what worked well and what didn’t, I began to see a consistent pattern. When policy makers, organizations, or scientists applied a one-size-fits-all strategy to change behavior, the results were mixed. But when they began by asking what stood in the way of progress—say, why their employees weren’t saving enough money or getting flu shots—and *then* developed targeted strategies to change behavior, the results were far better.

I couldn’t help but see the parallels to the way I’d been taught to think in engineering school. An engineer can’t design a successful structure without first carefully accounting for the forces of opposition (say, wind resistance or gravity). So engineers always attempt to solve problems by first identifying the obstacles to success. Now, studying behavior change, I began to understand the power and promise of applying this same strategy. It’s the very strategy that turned Andre Agassi’s tennis career around by helping him refocus on his opponents’ weaknesses.

Of course, when it comes to changing your behavior, your opponent isn’t facing you across the net. Your opponent is inside your head. Maybe it’s forgetfulness, or a lack of confidence, or laziness, or the tendency to succumb to temptation. Whatever the challenge, the best tacticians size up their opponent and play accordingly.

This book is intended to help you do exactly that. It takes Gilbert's winning strategy and applies it to behavior change. The chapters ahead show you how to identify your adversary, understand how that adversary tries to thwart your progress, and apply scientifically proven techniques that are tailor-made to vanquish it. Each chapter focuses on an internal obstacle that stands between you and success. By the time you're finished reading, you'll know how to recognize these obstacles and what can help you overcome them.

I've had the good fortune to collaborate with dozens of the world's best economists, psychologists, computer scientists, and doctors, all of whom share my goal of understanding how we can change behavior to improve lives. Our collective research has generated important insights that have already helped universities boost student achievement, medical practices cut down on unnecessary antibiotic prescriptions, nonprofits increase volunteering, and employers boost enrollment in benefits programs. We've also found techniques that can help anyone kick-start an exercise habit, improve their diet, increase the balance in their savings account, or get to the polls on Election Day.

By using these tools consistently, my hope is that you'll see small changes accumulate into big results. This is the approach that helped Andre Agassi turn his career around. He applied Brad Gilbert's philosophy one match at a time, using specifically tailored strategies to defeat each opponent in his path. And the wins added up. Soon after Agassi's surprise victory at the 1994 U.S. Open, he captured the number one world ranking, a title he would go on to hold for 101 weeks over the course of his now legendary career.

Brad Gilbert's advice made Agassi's transformation possible. And with the help of this book, my hope is that you, too, can turn the odds in your favor.

# Getting Started

When I first visited Google’s sprawling corporate headquarters in 2012, I felt like a kid entering Willy Wonka’s chocolate factory. The company’s campus in Mountain View, California, boasts state-of-the-art everything, with a bit of whimsy on top. As I wound my way between office buildings, I encountered beach volleyball courts, fanciful sculptures, a gift shop stocked with branded tchotchkes, and free world-class restaurants. It was stunning.

Google had invited me and a group of other academics to its headquarters to attend a retreat for its senior human resources directors, but I couldn’t help wondering what this company—one of the world’s most innovative and successful—could possibly need from us. The smiling employees whizzing by on bikes painted in the primary colors of their company’s logo certainly didn’t look like they had any problems. Google had raked in 38 billion dollars in revenue the year before my visit.

But everyone has problems—even Google.

The company had convened the retreat to find new ways to help its employees make better decisions both at work and at home, with a particular emphasis on improving their productivity as well as their health and financial security (both of which have been linked to improved work performance). Midway through the event, Prasad Setty, a Wharton alum and Google vice president who had been in human resources for several years, asked me a

seemingly innocuous question that would set me on the path to one of my most significant discoveries.

Google, he explained, offered its employees a wide range of benefits and programs designed to make their lives and jobs better and to solve such problems as undersaving for retirement, overuse of social media, physical inactivity, unhealthy eating, and smoking. But oddly enough, these programs weren't widely used. Prasad was both puzzled and frustrated that so many programs his team had created (which Google paid dearly for) went largely ignored. Why weren't employees clamoring to take advantage of free skill-building classes? Why weren't they all signing up for the company's 401(k) match and personal trainers?

Prasad had considered a few possible explanations, all of them plausible enough. Maybe the programs were being poorly advertised. Or maybe employees were just too busy to take advantage of them. But he also wondered about timing. Did I know, he asked, *when* Google should encourage employees to take advantage of these resources? Was there some ideal moment on the calendar or in someone's career to encourage behavior change?

I paused. Prasad's question was clearly important, and yet, to my knowledge, academics had largely overlooked it. If we hoped to effectively promote behavior change, of course we would need to understand *when* to begin.

Although I didn't have an easy answer for Prasad, I did have a hunch. I told him that before I could offer a reply grounded in solid evidence, I would need to review the academic literature and gather some data of my own. I started itching to get back to my research team in Philadelphia.

## THE POWER OF A BLANK SLATE

Prasad was hardly the first leader I'd met who was perplexed by the stubborn persistence of unhealthy or unproductive behavior. I've spent countless hours talking with frustrated public health officials about how to reduce smoking, boost physical activity, improve diets, and increase vaccinations, and that's just for starters. I often hear the same exasperated plea: If you can't persuade people