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Improving Decisions About Health, Wealth, and Happiness

Richard H. Thaler Cass R. Sunstein



Penguin Books

Edna Ullmann-Margalit, Adrian Vermeule, Eric Wanner, Elke Weber, Roman Weil, Susan Woodward, and Marion Wrobel. As always, our toughest and wisest advice came from France Leclerc and Martha Nussbaum. Vicki Drozd helped out with everything, as she always does, and made sure that all the research assistants got paid, which they appreciated. Thanks too to Ellyn Ruddick-Sunstein, for helpful discussion, patience, both sense and amusement about behavioral economics, and good cheer.

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INTRODUCTION

The Cafeteria

A friend of yours, Carolyn, is the director of food services for a large city school system. She is in charge of hundreds of schools, and hundreds of thousands of kids eat in her cafeterias every day. Carolyn has formal training in nutrition (a master's degree from the state university), and she is a creative type who likes to think about things in nontraditional ways.

One evening, over a good bottle of wine, she and her friend Adam, a statistically oriented management consultant who has worked with supermarket chains, hatched an interesting idea. Without changing any menus, they would run some experiments in her schools to determine whether the way the food is displayed and arranged might influence the choices kids make. Carolyn gave the directors of dozens of school cafeterias specific instructions on how to display the food choices. In some schools the desserts were placed first, in others last, in still others in a separate line. The location of various food items was varied from one school to another. In some schools the French fries, but in others the carrot sticks, were at eye level.

From his experience in designing supermarket floor plans, Adam suspected that the results would be dramatic. He was right. Simply by rearranging the cafeteria, Carolyn was able to increase or decrease the consumption of many food items by as much as 25 percent. Carolyn learned a big lesson: school children, like adults, can be greatly influenced by small

healthy foods and decrease consumption of unhealthy ones. worse. For example, Carolyn knows that she can increase consumption of changes in the context. The influence can be exercised for better or for

friends and coworkers: she has received from her usually sincere but occasionally mischievous dering what to do with her newfound power. Here are some suggestions she now has considerable power to influence what kids eat. Carolyn is ponvolunteers recruited to collect and analyze the data, Carolyn believes that With hundreds of schools to work with, and a team of graduate student

- 1. Arrange the food to make the students best off, all things considered
- Choose the food order at random.
- 3. Try to arrange the food to get the kids to pick the same foods they would choose on their own.
- fer the largest bribes. Maximize the sales of the items from the suppliers that are willing to of-
- 5. Maximize profits, period

random, could be considered fair-minded and principled, and it is in one nalistic. But the alternatives are worse! Option 2, arranging the food at she can easily make most students better off, in part by improving their schools. Is this desirable? Should Carolyn choose that kind of neutrality, if children at some schools will have less healthy diets than those at other sense neutral. But if the orders are randomized across schools, then the Option I has obvious appeal, yet it does seem a bit intrusive, even pater-

avoid some way of organizing food. students would choose "on their own"? In a cafeteria, it is impossible to items are displayed. What, then, are the true preferences of the children? ment proves that what kids choose depends on the order in which the ple's wishes (at least where she is dealing with older students). But a little ally the neutral choice, and maybe Carolyn should neutrally follow peoto mimic what the children would choose for themselves. Maybe that is re-What does it mean to say that Carolyn should try to figure out what the thought reveals that this is a difficult option to implement. Adam's experi-Option 3 might seem to be an honorable attempt to avoid intrusion: try

Option 4 might appeal to a corrupt person in Carolyn's job, and manip-

try to maximize profits if the result is to make children less healthy, espeand 3, Option 5 has some appeal, especially if Carolyn thinks that the best and honest, so she does not give this option any thought. Like Options 2 cially since she works for the school district? cafeteria is the one that makes the most money. But should Carolyn really arsenal of available methods to exploit power. But Carolyn is honorable ulating the order of the food items would put yet another weapon in the

you are a choice architect (but you already knew that). your son or daughter, you are a choice architect. If you are a salesperson, architect. If you are a parent, describing possible educational options to ployees fill out to enroll in the company health care plan, you are a choice to a patient, you are a choice architect. If you design the form that new em-If you are a doctor and must describe the alternative treatments available sign the ballot voters use to choose candidates, you are a choice architect. cisions. Although Carolyn is a figment of our imagination, many real people turn out to be choice architects, most without realizing it. If you dehas the responsibility for organizing the context in which people make de-Carolyn is what we will be calling a choice architect. A choice architect

building is not merely attractive; it also "works." an opportunity to run into colleagues (for better or for worse). A good people who use the building interact. Every trip to the bathroom creates as where to locate the bathrooms, will have subtle influences on how the and hallways. As good architects know, seemingly arbitrary decisions, such chitect must come up with an actual building with doors, stairs, windows, 120 offices, 8 classrooms, 12 student meeting rooms, and so forth. The ing. The architect is given some requirements. There must be room for as a "neutral" design. Consider the job of designing a new academic buildtional forms of architecture. A crucial parallel is that there is no such thing imposed---some legal, some aesthetic, some practical. In the end, the arbuilding must sit on a specified site. Hundreds of other constraints will be There are many parallels between choice architecture and more tradi-

wonderful example of this principle comes from, of all places, the men's comes from focusing the attention of users in a particular direction. A "everything matters." In many cases, the power of these small details impacts on people's behavior. A good rule of thumb is to assume that As we shall see, small and apparently insignificant details can have major

reduce spillage by 80 percent.1 expansion. His staff conducted fly-in-urinal trials and found that etchings a fly, he aims at it." Kieboom, an economist, directs Schiphol's building works wonders. "It improves the aim," says Aad Kieboom. "If a man sees much increased. According to the man who came up with the idea, it usually do not pay much attention to where they aim, which can create a etched the image of a black housefly into each urinal. It seems that men rooms at Schiphol Airport in Amsterdam. There the authorities have bit of a mess, but if they see a target, attention and therefore accuracy are

powering. Good architects realize that although they can't build the pera choice architect like Carolyn must choose a particular arrangement of the fect building, they can make some design choices that will have beneficial food options at lunch, and by so doing she can influence what people cat action and more walking, and both of these are probably desirable. And effects. Open stairwells, for example, may produce more workplace inter-She can nudge.* just as a building architect must eventually build some particular building, The insight that "everything matters" can be both paralyzing and em-

Libertarian Paternalism

opportunity to nudge the kids toward food that is better for them, Option If, all things considered, you think that Carolyn should take the

judge, while the oo sound in noodge is pronounced as in book. geshrei from a noodge with his incessant, bothersome whining." Nudge rhymes with One who nudges in that manner—'to alert, remind, or mildly warn another'—is a far ... To nudge is 'to push mildly or poke gently in the ribs, especially with the elbow.' "Yiddishism noodye" is "a noun meaning 'pest, annoying nag, persistent complainer." "On Language" column in the New York Times Magazine (October 8, 2000), the *Please do not confuse nudge with needge. As William Safire has explained in his

to go directly to the bibliography without having first to find the endnote. scholarly of readers. When the authors of cited material are mentioned in the text, we contain information about source material. These can be skipped by all but the most worth reading are keyed with a symbol and placed at the bottom of the page, so that sometimes add a date in parentheses—Smith (1982), for example—to enable readers they are easy to find. We have aimed to keep these to a minimum. Numbered endnotes when it comes to footnotes and references. Footnotes such as this one that we deem While we are all down here, a small note about the reading architecture of this book

> combine two reviled and contradictory concepts? We argue that if the ing to many. Even worse, the concepts seem to be contradictory. Why terms is that they have been captured by dogmatists. they are far more attractive together than alone. The problem with the terms are properly understood, both concepts reflect common sense---and by stereotypes from popular culture and politics that make them unappeal-We are keenly aware that this term is not one that readers will find imme-I, then we welcome you to our new movement: libertarian paternalism diately endearing. Both words are somewhat off-putting, weighted down

burden those who want to exercise their freedom. want to make it easy for people to go their own way; they do not want to when we say liberty-preserving, we really mean it. Libertarian paternalists modify the word paternalism, we simply mean liberty-preserving. And tain or increase freedom of choice. When we use the term libertarian to phrase from the late Milton Friedman, libertarian paternalists urge that opt out of undesirable arrangements if they want to do so. To borrow a people should be "free to choose." We strive to design policies that main tence that, in general, people should be free to do what they like—and to The libertarian aspect of our strategies lies in the straightforward insis

tion, unlimited cognitive abilities, and complete self-control on some well-established findings in social science, we show that in many way that will make choosers better off, as judged by themselves. 3 Drawing derstanding, a policy is "paternalistic" if it tries to influence choices in a steer people's choices in directions that will improve their lives. In our unefforts, by institutions in the private sector and also by government, to chitects to try to influence people's behavior in order to make their lives have made if they had paid full attention and possessed complete informa cases, individuals make pretty bad decisions—decisions they would no longer, healthier, and better. In other words, we argue for self-conscious The paternalistic aspect lies in the claim that it is legitimate for choice ar-

choose an unsuitable health care plan, or to fail to save for retirement, libof paternalism because choices are not blocked, fenced off, or significantly things hard for them. Still, the approach we recommend does count as paertarian paternalists will not force them to do otherwise—or even make burdened. If people want to smoke cigarettes, to eat a lot of candy, to Libertarian paternalism is a relatively weak, soft, and nonintrusive type

their lives better. They nudge. self-consciously attempting to move people in directions that will make ing to track or to implement people's anticipated choices. Rather, they are ternalistic, because private and public choice architects are not merely try-

junk food does not. not mandates. Putting the fruit at eye level counts as a nudge. Banning mere nudge, the intervention must be easy and cheap to avoid. Nudges are options or significantly changing their economic incentives. To count as a that alters people's behavior in a predictable way without forbidding any A nudge, as we will use the term, is any aspect of the choice architecture

to government as well. the emission of greenhouse gases). But as we shall show, the same points plans, we think that employers can give employees some helpful nudges. ples we discuss in this book. In areas involving health care and retirement ployers, for example, are important choice architects in many of the examthe private sector (with or without a nudge from the government). Emthat justify libertarian paternalism on the part of private institutions apply benefit from environmental nudges, helping to reduce air pollution (and Private companies that want to make money, and to do good, can even Many of the policies we recommend can and have been implemented by

Humans and Econs: Why Nudges Can Help

well, and thus fits within the textbook picture of human beings offered by nomic man-the notion that each of us thinks and chooses unfailingly seem at least implicitly committed to the idea of homo economicus, or ecoment). Whether or not they have ever studied economics, many people one else would do (especially if that someone else works for the governterrific job of making choices, and if not terrific, certainly better than anyeconomists. Those who reject paternalism often claim that human beings do a

cus can think like Albert Einstein, store as much memory as IBM's Big if they don't have a calculator, sometimes forget their spouse's birthday, that we know are not like that. Real people have trouble with long division Blue, and exercise the willpower of Mahatma Gandhi. Really. But the folks If you look at economics textbooks, you will learn that homo economi-

> hereafter refer to these imaginary and real species as Econs and Humans they are homo sapiens. To keep our Latin usage to a minimum we will and have a hangover on New Year's Day. They are not homo economicus;

to premature death. It would be quite fantastic to suggest that everyone is that obesity increases risks of heart disease and diabetes, frequently leading duced with a few nudges. choosing the right diet, or a diet that is preferable to what might be proconsidered either obese or overweight. There is overwhelming evidence now approaching 20 percent, and more than 60 percent of Americans are Consider the issue of obesity. Rates of obesity in the United States are

thousand premature deaths each year. With respect to diet, smoking, and diet optimally. What is true for diets is true for other risk-related behavior, we do reject the claim that all or almost all Americans are choosing their that everyone who is overweight is necessarily failing to act rationally, but better decisions. drinkers, and overcaters are willing to pay third parties to help them make the best means of promoting their well-being. Indeed, many smokers, drinking, people's current choices cannot reasonably be claimed to be including smoking and drinking, which produce more than five hundred health, and eating is a source of pleasure in and of itself. We do not claim Of course, sensible people care about the taste of food, not simply about

takes longer than you think, even if you know about the planning fallacy surprise to anyone who has ever hired a contractor to learn that everything optimism about the time it takes to complete projects. It will come as no ple, the "planning fallacy"—the systematic tendency toward unrealistic dictable direction. Unlike Econs, Humans predictably err. Take, for examscience), but they are required to make unbiased forecasts. That is, the ple are not required to make perfect forecasts (that would require omnidecades. That research has raised serious questions about the rationality of choice, consisting of careful research by social scientists over the past four many judgments and decisions that people make. To qualify as Econs, peoforecasts can be wrong, but they can't be systematically wrong in a pre-But our basic source of information here is the emerging science of

example, consider what is called the "status quo bias," a fancy name for inased. Human decision making is not so great either. Again to take just one Hundreds of studies confirm that human forecasts are flawed and bi-

ertia. For a host of reasons, which we shall explore, people have a strong tendency to go along with the status quo or default option.

are much higher than choosing the noise your phone makes when it rings. the default choices are, many people stick with them, even when the stakes tion as the default for each of these choices. Research shows that whatever before the caller is sent to voice mail. The manufacturer has picked one opthe background to the ring sound to the number of times the phone rings to make. The fancier the phone, the more of these choices you face, from When you get a new cell phone, for example, you have a series of choices

mg transplant operations. increasing savings to improving health care to providing organs for lifesavtrivial menu-changing strategies, can have huge effects on outcomes, from fault. As we will show, setting default options, and other similar seemingly outcomes, they can greatly influence the outcome by choosing it as the deprivate companies or public officials think that one policy produces better derestimate the power of inertia. Second, that power can be harnessed. If Two important lessons can be drawn from this research. First, never un-

major problems. And we can do so while still insisting on everyone's freeis any factor that significantly alters the behavior of Humans, even though prove our ability to improve people's lives, and help solve many of society's nudges.* By properly deploying both incentives and nudges, we can implayed. Humans respond to incentives too, but they are also influenced by fluenced by such "irrelevant" factors as the order in which options are disthe government taxes candy, they will buy less candy, but they are not init would be ignored by Econs. Econs respond primarily to incentives. If of the gentle power of nudges. In accordance with our definition, a nudge The effects of well-chosen default options provide just one illustration

A False Assumption and Two Misconceptions

to this mantra is thought to be a government mandate which is derided as imize Choices has become a policy mantra. Sometimes the only alternative education to prescription drug insurance plans. In some circles, Just Maxmany complex problems: Just Maximize (the number and variety of) they like best (with as little government intervention or nudging as possigive people as many choices as possible, and then let them choose the one selves. The standard policy advice that stems from this way of thinking is to ternalism. They want the government to let citizens choose for themoppose paternalism, or think they do, and they are skeptical about nudges. "One Size Fits All." Those who favor Just Maximize Choices don't realize Choices—full stop! The policy has been pushed in many domains, from ble). The beauty of this way of thinking is that it offers a simple solution to We believe that their skepticism is based on a false assumption and two there is plenty of room between their policy and a single mandate. They misconceptions. Many people who favor freedom of choice reject any kind of pa-

make choices that are in their best interest or at the very least are better anyone believes it on reflection. assumption is false—indeed, obviously false. In fact, we do not think that than the choices that would be made by someone else. We claim that this The false assumption is that almost all people, almost all of the time,

likely to vary across domains. It seems reasonable to say that people make many areas, ordinary consumers are novices, interacting in a world inhabchoices—choices that could easily be improved by some helpful hints. In Predictably, the novice would lose precisely because he made inferior good choices in contexts in which they have experience, good informaally, how well people choose is an empirical question, one whose answer is ited by experienced professionals trying to sell them things. More generchoosing between fruit and ice cream (where the long-term effects are and poorly informed, and in which feedback is slow or infrequent-say, in thing else. They do less well in contexts in which they are inexperienced ple know whether they like chocolate, vanilla, coffee, licorice, or sometion, and prompt feedback—say, choosing among ice cream flavors. Peo-Suppose that a chess novice were to play against an experienced player.

Some of our nudges do, in a sense, impose cognitive (rather than material) costs, and in a more obscure place—it might be said that the "cost" of choosing candy is increased. taken to increase people's cognitive effort---as by placing fruit at eye level and candy in only it any costs are low. that sense alter incentives. Nudges count as such, and qualify as libertarian paternalism. *Alert readers will notice that incentives can come in different forms. If steps are

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design choice architecture to make people better off; in many cases it is those of some bureaucrat). As we will try to show, it is not only possible to could make their lives go better (as judged by their own preferences, not people are not choosing perfectly, some changes in the choice architecture tiple and varying features, you might benefit from a little help. So long as vestment options. If you are given fifty prescription drug plans, with mulslow and feedback is poor) or in choosing among medical treatments or in-

neutrality are unattractive; we shall encounter many examples. tional nudges can have major effects, and in some contexts, these forms of randomly, or by trying to figure out what most people want. But unintenstrive for one or another kind of neutrality—as, for example, by choosing checks in one month. It is also true that private and public institutions can save more if they get paid biweekly because twice a year they get three pay ate any kind of nudge, but they might be surprised to discover that people whether to pay employees monthly or biweekly without intending to crecourse, that some nudges are unintentional; employers may decide (say) fluenced by the design elements selected by choice architects. It is true, of by the example of Carolyn's cafeterias, people's choices are pervasively insituations, no way of avoiding nudging in some direction, and whether inchoice that will affect the behavior of some other people. There is, in those tended or not, these nudges will affect what people choose. As illustrated choices. In many situations, some organization or agent must make a The first misconception is that it is possible to avoid influencing people's

governments, no less than cafeterias (which governments frequently run), able. As we shall emphasize, they do so every day through the rules they have to provide starting points of one or another kind. This is not avoid commands, requirements, and prohibitions in part for that reason. But and overreaching are real and sometimes serious. We favor nudges over ular, we emphatically agree that for government, the risks of mistake, bias, goals of self-interested private groups. We share these concerns. In particreaucrats will place their own interests first, or pay attention to the narrow of improving people's lives. They worry that governments cannot be trusted to be competent or benign. They fear that elected officials and bustrenuously object to government efforts to influence choice with the goal Some people will happily accept this point for private institutions but

> spect, the antinudge position is unhelpful—a literal nonstarter. set, in ways that inevitably affect some choices and outcomes. In this re-

embrace freedom of choice. some types of paternalism should be acceptable even to those who most teenagers, or even adults? Since no coercion is involved, we think that cafereria if the result were to induce kids to eat more apples and fewer putting the fruit and salad before the desserts at an elementary school paternalistic in the sense that we use the term. Would anyone object to her position, might select some arrangement of food on grounds that are items does not force a particular diet on anyone, yet Carolyn, and others in In the cafeteria example, the choice of the order in which to present food Twinkies? Is this question fundamentally different if the customers are The second misconception is that paternalism always involves coercion.

proach. And by insisting that choices remain unrestricted, we think that care, we will offer specific suggestions in keeping with our general apis the best safeguard against bad choice architecture the risks of inept or even corrupt designs are reduced. Freedom to choose In domains as varied as savings, organ donations, marriage, and health

Choice Architecture in Action

others by designing user-friendly environments. Many of the most sucfor exactly that reason. Sometimes the choice architecture is highly visible, and consumers and employers are much pleased by it. (The iPod and the cessful companies have helped people, or succeeded in the marketplace, careful attention. times the architecture is taken for granted and could benefit from some it is also easy for the user to get the devices to do what they want.) SomeiPhone are good examples because not only are they elegantly styled, but Choice architects can make major improvements to the lives of

lic computers are available for those who would otherwise not have ment savings. Employees are required to make their choices online. (Pubtions they have made about such benefits as health insurance and retireperiod every November, when employees are allowed to revise the seleccago. The university, like many large employers, has an "open enrollment" Consider an illustration from our own employer, the University of Chi-

Internet access.) Employees receive, by mail, a package of materials explaining the choices they have and instructions on how to log on to make these choices. Employees also receive both paper and email reminders.

Because employees are human, some neglect to log on, so it is crucial to decide what the default options are for these busy and absent-minded employees. To simplify, suppose there are two alternatives to consider: those who make no active choice can be given the same choice they made the previous year, or their choice can be set back to "zero." Suppose that last year an employee, Janet, contributed one thousand dollars to her retirement plan. If Janet makes no active choice for the new year, one alternative would be to default her to a one thousand-dollar contribution; another would be to default her to zero contribution. Call these the "status quo" and "back to zero" options. How should the choice architect choose between these defaults?

Libertarian paternalists would like to set the default by asking what reflective employees in Janet's position would actually want. Although this principle may not always lead to a clear choice, it is certainly better than choosing the default at random, or making either "status quo" or "back to zero" the default for everything. For example, it is a good guess that most employees would not want to cancel their heavily subsidized health insurance. So for health insurance the status quo default (same plan as last year) seems strongly preferred to the back to zero default (which would mean going without health insurance).

Compare this to the employee's "flexible spending account," in which an employee sets aside money each month that can be used to pay for certain expenditures (such as uninsured medical or child care expenses). Money put into this account has to be spent each year or it is lost, and the predicted expenditures might vary greatly from one year to the next (for example, child care expenses go down when a child enters school). In this case, the zero default probably makes more sense than the status quo.

This problem is not merely hypothetical. We once had a meeting with three of the top administrative officers of the university to discuss similar issues, and the meeting happened to take place on the final day of the employees' open enrollment period. We mentioned this and asked whether the administrators had remembered to meet the deadline. One said that he was planning on doing it later that day and was glad for the reminder. An-

other admitted to having forgotten, and the third said that he was hoping that his wife had remembered to do it! The group then turned to the question of what the default should be for a supplementary salary reduction program (a tax-sheltered savings program). To that point, the default had been the "back to zero" option. But since contributions to this program could be stopped at any time, the group unanimously agreed that it would be better to switch to the status quo "same as last year" default. We are confident that many absent-minded professors will have more comfortable retirements as a result.

This example illustrates some basic principles of good choice architecture. Choosers are human, so designers should make life as easy as possible. Send reminders, and then try to minimize the costs imposed on those who, despite your (and their) best efforts, space out. As we will see, these principles (and many more) can be applied in both the private and public sectors, and there is much room for going beyond what is now being done.

A New Path

We shall have a great deal to say about private nudges. But many of the most important applications of libertarian paternalism are for government, and we will offer a number of recommendations for public policy and law. Our hope is that that those recommendations might appeal to both sides of the political divide. Indeed, we believe that the policies suggested by libertarian paternalism can be embraced by Republicans and Democrats alike. A central reason is that many of those policies cost little or nothing; they impose no burden on taxpayers at all.

Many Republicans are now seeking to go beyond simple opposition to government action. As the experience with Hurricane Katrina showed, government is often required to act, for it is the only means by which the necessary resources can be mustered, organized, and deployed. Republicans want to make people's lives better; they are simply skeptical, and legitimately so, about eliminating people's options.

For their part, many Democrats are willing to abandon their enthusiasm for aggressive government planning. Sensible Democrats certainly hope that public institutions can improve people's lives. But in many domains, Democrats have come to agree that freedom of choice is a good and even

indispensable foundation for public policy. There is a real basis here for crossing partisan divides.

Libertarian paternalism, we think, is a promising foundation for bipartisanship. In many domains, including environmental protection, family law, and school choice, we will be arguing that better governance requires less in the way of government coercion and constraint, and more in the way of freedom to choose. If incentives and nudges replace requirements and bans, government will be both smaller and more modest. So, to be clear: we are not for bigger government, just for better governance.

Actually we have evidence that our optimism (which we admit may be a bias) is more than just rosy thinking. Libertanian paternalism with respect to savings, discussed in Chapter 6, has received enthusiastic and widespread bipartisan support in Congress, including from current and former conservative Republican senators such as Robert Bennett (Utah) and Rick Santorum (Pa.) and liberal Democrats such as Rahm Emanuel of Illinois. In 2006 some of the key ideas were quietly enacted into law. The new law will help many Americans have more comfortable retirements but costs escentially nothing in taxpayer dollars.

In short, libertarian paternalism is neither left nor right, neither Democratic nor Republican. In many areas, the most thoughtful Democrats are going beyond their enthusiasm for choice-climinating programs. In many areas, the most thoughtful Republicans are abandoning their knee-jerk opposition to constructive governmental initiatives. For all their differences, we hope that both sides might be willing to converge in support of some gentle nudges.

PARI

HUMANS AND ECONS

T W

IMPROVING SCHOOL CHOICES

In 1944 President Franklin Delano Roosevelt included "the right to a good education" in what he called a Second Bill of Rights, designed to promote "security" and suitable for a modern democracy. Most Americans seem to believe that children do have a right to a good education; there is a consensus on that point. One reason for that consensus is that educated people are more free. But the consensus breaks down when people explore how, exactly, to achieve that right.

School choice remains an intensely polarizing issue in American politics. The case for choice was originally popularized by the great libertarian economist Milton Friedman. His argument is a simple one: the best way to improve our children's schools is to introduce competition. If schools compete, kids win. And if schools compete, those who are the least advantaged have the most to gain. Wealthy families already have "school choice," because they can send their children to private schools. If we give parents vouchers to send their children to any school they want, then we will put children from poor families more nearly on a par with their more privileged middle- and upper-class counterparts. Shouldn't poor children have the same rights that wealthy ones do?

Critics of school choice argue that such programs amount, in practice, to an attack on the public school system that has helped make America great. The critics worry that in the end, public schools, which serve diverse people and allow them to be educated together, will lose both students and money. They fear that vouchers will turn out to be a subsidy to rich

that the private schools don't want. schools-and even worse, that public schools will end up with the kids parents who can already afford to send their children to fancy private

suggests that while choice programs are hardly a panacea, they can indeed with the chance to assess the actual effects of such programs. The evidence country have experimented with choice programs, providing observers to schools, do more choices actually help? Since the 1970s cities around the group members.2 greatest among younger students, low-income students, and minorityyear depending on the school and student—and improvement is usually per dollar spent. Test-score improvements can range from 1 to 7 percent a facing competition, public schools produce higher student achievement improve student performance. Carolyn Hoxby, a leading economist who ways lead to the best possible outcomes. So we need to ask, when it comes ding. We have seen that the Just Maximize Choices mantra does not alallow us to select any particular plan, and of course the proof is in the pudlikely to improve education. But an abstract preference for choice does not choice, because freedom is usually a good idea and because competition is has analyzed both voucher and charter school programs, finds that when As libertarians, we are strongly inclined to support the concept of school

position to make sensible decisions for their children. part of the school choice issue—how to create plans that put parents in a do not make use of their options and instead just send their child to the deents make better choices on behalf of their children. Many parents simply those who do make choices are sometimes ill prepared to make good ones. fault school (usually, but not always, their neighborhood school). And we believe that the results could be significantly enhanced by helping par-Because we approve of more choice, we want to focus on one important Even though the results suggest that school choice can and does help,

Complex Choices and Mental Shortcuts

goal of increasing public school accountability by mandating certain testdent Bush signed the federal No Child Left Behind law in 2001, with the ing standards. (We put to one side the many controversial questions raised Consider the revealing case of Worcester, Massachusetts. Presi-

> had switched schools, and only two had taken advantage of supplementa supplemental education services. But six months later, only one student and eighteen hundred students had the right to collect federal money for almost one-fifth the district's student population, were eligible to transfer, been labeled "in need of improvement" for two consecutive years, and five for three consecutive years. That summer, forty-seven hundred students, by that law.) By June 2003 twelve of Worcester's fifty public schools had

explained that it was trying to improve. itations might not permit transfers to be processed. The school system also lighted unattractive parts of No Child Left Behind, noting that space limlimitations of the No Child Left Behind evaluation criteria, and highified its language about the meaning of underperforming, stressed the ents reluctant to exercise their right to choose.3 The school system qualcal scientist William Howell calls "friendly discouragement," making parrights under No Child Left Behind. But it also engaged in what the politischool system notified parents at underperforming schools about their Worcester officials themselves were primarily responsible. True, the

on positive comments from the school district. paperwork. Even worse, because the school district controlled access to inschool location. And all of that was before parents had to file the transfer ways possible and that there were no guarantees about transportation or dents without the district's blessing. The companies essentially depended formation, tutoring service and test prep companies could not reach stu-At these meetings, district officials again stressed that transfers were not alcenter's director said that two parents expressed interest in such a meeting they had to attend another meeting at a school information center. The First, parents had to meet with their school's principal. Few did. Next, For the undeterred, exercising choice was a tedious, multistage process.

choose what would be best for their children. Consider a few details. to promote actual freedom-not just by giving people lots of choices stick with the status quo or ultimately make poor decisions. The trick is school, let alone all the other schools that are available. They might well (though that can help) but also by putting people in a good position to As with a 401(k) plan, the average parents know little about their child's

When parents pick schools, status quo bias plays a big role. The neigh-

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school's positive features. The booklet does not include information on collecting and distributing school data makes it difficult for parents to quiry about what is good by saying: "Everything!" unobjectionable, it is about as helpful as when a waiter responds to an inorder to determine which is best for their children. Although this advice is their children about what their needs are, and to visit the various schools in school depends on each individual child" and advising parents to talk to questions like "Which school is the best school?" by saying that "a good at a special district-wide application center are instructed to respond to these are available only on the district Web site. Meanwhile, staff members physical locations, test scores, attendance rates, and racial composition written by representatives of the schools themselves, emphasizing each parents receive a hundred-page booklet with descriptions of 190 schools think through their options. In Charlotte, North Carolina, for instance unknown school half an hour away. In any case, the Byzantine nature of borhood school that one knows, failing or not, may be preferable to the

A creative experiment in Charlotte shows that choices can be improved with better and simpler information. ⁴ Charlotte gave parents the option to apply for admission at multiple public schools besides their default school. Low-income parents tended to put less weight than high-income parents on school quality, as measured by test scores, and rarely tried to enroll in higher-performing schools. A random sample of parents was selected to receive an abbreviated "fact sheet" about the schools—much in the spirit of the RECAP idea that we have suggested in other areas. Printed on each sheet was a complete listing of average test scores and acceptance rates, from highest to lowest, at schools available to a given child.

The experimenters wanted to find out whether parents, and especially low-income parents, would choose better schools. They did. Much better ones. The parents who received the fact sheets made decisions implying that the weight they assigned to school quality (as measured by test scores) had doubled. The schools they selected had, on average, 70 percent higher test scores than the scores at their neighborhood schools. This had the effect of making their choices similar to those of families whose incomes were \$65,000 a year higher. Furthermore, when children are lucky enough to switch to better schools, their performance improves considerably. The students who are lucky enough to win the lotteries held to decide who gets

to attend the popular better schools are less likely to be suspended and have higher test scores than the students who lost.⁵

Incentive Conflicts and Matching

A good choice architect can do more than help parents achieve what is already in their own self-interest. The architect can also help reduce latent incentive conflicts between advantaged and disadvantaged parents during the choice process.

Despite the attention they receive in the media, market-based programs like vouchers are available to relatively few students nationwide. One popular alternative is a policy known as controlled choice, which emerged in the wake of 1970s court rulings prohibiting busing for the purpose of achieving desegregation. The idea was to continue integration by guaranteeing students a priority space at a nearby school or a school that a sibling attended, while giving them the option to apply for enrollment somewhere else.

School administrators in Boston adopted a computer algorithm designed to assign as many students as possible to their first-choice schools, while still giving priority to the neighborhood students. It is hard to know exactly how many districts use the so-called Boston system, because administrators do not always explain controlled-choice policies in detail, but some of the larger metropolitan districts that employ that algorithm or something similar include Denver, Tampa, Minneapolis, Louisville, and Seattle. (If two students applied to a school with one open seat, Seattle and Louisville broke the tie on the basis of race, a practice the Supreme Court ruled unconstitutional in 2007.)

Matching as many first choices as possible sounds sensible enough, except for one problem. Picking schools in the Boston system turns out to be a complex game of strategy, with the winners reaping the spoils. How do the winners win? They lie, a little. Economists call it strategic misrepresentation.

There is a mathematical (and complicated) reason why lying is a good strategy in the Boston system, but to get an intuitive feel imagine that college admissions suddenly operated on a national controlled-choice system. Schools like Harvard and Stanford would be heavily overdemanded, and

the fatility of listing it first. The Boston system attempts to match as many ing of sending their child to Harvard since the diaper days, would realize ents who do not happen to live in Cambridge, but who have been dreaming there guaranteed your child a seat at Harvard or Stanford?) Clever parthink property in Cambridge and Palo Alto is expensive now? What if livter odds of getting into one than of winning the Powerball jackpot. (You locals would get preferential treatment. You would have only slightly betfirst, only Cambridge residents could sleep well at night. first choices as possible, so if every honest parent in America listed Harvard

popular school such as Dartmouth or Cornell, say, where there are also bridge would be better served to select as their first choice a slightly less ceptance rates and where their child has priority. available online, giving parents an incentive to tweak rankings based on acschool as a second choice. Information about school demand is usually school if a child has a low priority, and a complete waste to list such a ranks it first-making it risky to use a first choice on a highly sought-after tem, parents who rank a school second or third lose out to everyone who fewer students nearby getting preferential treatment. In the Boston sys-Instead of taking their chances on a long shot, parents outside Cam-

worked!) But over time, some parents figured out ways to gain an edge. ents, who routinely listed an overdemanded school as a second choice, the the tricks first. They performed better than less affluent, less educated par-(they volunteer at school with other affluent, educated parents) learned Not surprisingly, affluent, educated parents with large social networks this strategy. (Only a handful of people even knew how the algorithm lost out on access to first-rate educations because of it? worst mistake they could make. Who knows how many of their children When the Boston system was first developed, almost no one intuited

out these problems to initially skeptical Boston school administrators. Af-Boston. In 2003 a group of economists led by Al Roth at Harvard pointed trators became convinced of their system's flaws.6 ter letting the economists poke around in the internal data, the adminis-The Boston system is still in place around the country, though not in

mechanism, based on one used to match hospitals and medical residents. In response, they adopted the economists' new strategy-proof choice

> true preferences so that the policy can be adjusted properly based on fueach school. In return, administrators do not have to guess about parents' ing teachers, rather than estimating the level of competition to get into the choice process, allowing them to spend time visiting schools and see-The mechanism does not penalize parents who are unsophisticated about

Nudging High Schoolers Toward College

of a local school official or two. In San Marcos, Texas, the school superinwould have to complete an application to nearby Austin Community Colthrough the state faster than a YouTube clip. (Well, maybe not that fast.) ulation into college. They hit on a nudge so simple and effective it spread tendent and an administrator at nearby Austin Community College were ish professor and a powerful computer algorithm. It can be the brainchild the application properly was tantamount to acceptance. school degree and a record of having taken a standardized test, completing lege. Because all it takes to get admitted to the community college is a high looking for a way to get more of San Marcos's largely Latino student pop-The nudge was this: in order to graduate from San Marcos High, a student Good choice architecture doesn't need to originate with a wonk-

meet with the college's staff counselors. In a smart piece of mapping, the sions for parents. administrators took a standardized admissions exam to the high school as the difference between a Mercedes and a KIA. Next, community college lege graduates carned compared with high school graduates, explaining it freedom: the automobile. They talked about how much more money colcation. Instead, they hooked them with the universal symbol of teenage counselors didn't try to sell the students on the high-mindedness of educommunity college for help. Students were pulled from English classes to outside funding to implement the idea, so she asked her teachers and the schoolers never experience higher education. The superintendent had no dents financial aid information and had tax consultants offer weekend sesand tested the students free of charge. The administrators also gave stu-In San Marcos, schools run on a tight budget, and two-thirds of high

In the end, the nudge produced big results. From 2004 to 2005 the percentage of San Marcos High students who went to Texas colleges rose 11 percentage points, to 45 percent. Now more than forty-five Texas high schools have similar programs, and schools in Florida and California have created programs modeled after San Marcos's. In Maine a state legislator is proposing a law requiring high school seniors to submit at least one college application before they graduate.

We have covered a lot of territory in a short space. Milton Friedman was right: at least in the abstract, school choice is an excellent idea, because it increases freedom and offers real promise for improving education. Of course, reforms should be assessed empirically, not in the abstract. Fortunately, existing evidence suggests that school choice has considerable promise.

The major problem, and our principal concern here, is that what is true for investments and prescription drugs is true for education as well: it is not enough to make lots of choices available and then hope parents choose wisely. School systems need to put parents in a position to think through their choices, and to exercise their freedom rather than to rely on the default option. Both parents and children need the right incentives. FDR's "right to a good education" is not part of the Constitution, but it has become a cultural commitment, and a few simple steps could enable many more children to enjoy that right.

4

TO BUY LOTTERY TICKETS?

Every election cycle, presidential contenders unveil plans to make health care coverage available to the tens of millions of Americans who lack health insurance. The candidates decry our government's failure, thus far, to implement an effective plan.

Whatever happens in the long run, such plans are hard to design for a simple reason: health care is really expensive. It is expensive in part because Americans want access to all the best services: doctors, hospitals, prescription drugs, medical devices, and nursing homes, to name a few.

Of course, we can try to keep health care affordable on our own, by maintaining healthy lifestyles, and by buying only the health care products and services that we need. We can save money by visiting the doctor no more often than necessary, and if we purchase insurance, we can choose a plan that covers only catastrophic illnesses instead of coverage with low deductibles, which is much more expensive. But there is something that every health care customer in America is forced to buy, whether she wants it or not: the right to sue the doctor for negligence.

Our principal claim here is that patients and doctors should be free to make their own agreements about that right. If patients want to waive the right to sue, they should be allowed to do exactly that. This increase in freedom is likely to help doctors and patients alike, and to make a valuable, even if modest, contribution to the health care problem.

It may seem strange to think that we "purchase" the right to sue. Of course, that right is not an itemized portion of the insurance bill—but it is