The Power
of Introverts in a
World That Can't
Stop Talking

uiet

SUSAN CAIN

MORE ADVANCE NOISE FOR QUIET

"An intriguing and potentially life-altering examination of the human psyche that is sure to benefit both introverts and extroverts

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alike."

socially productive ... These important counterintuitive ideas are among the many reasons to take Quiet to a quiet corner and absorb

is

is

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din, Susan's own voice

journey from the lab bench to motivational speaker's hall, offers convincing evidence for valuing substance over style, steak over sizzle, and qualities that are, in America, often derided. This book is brilliant, profound, full of feeling and brimming with insights."

beautifully

wrought

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valuable: Quiet offers tips

on how introverts can lead

effectively, give winning

management, the Wharton School of Business

STILL MORE ADVANCE NOISE FOR QUIET

"Shatters misconceptions ... Cain consistently holds the reader's interest by presenting individual

on the latest studies. Her diligence, research, and passion for this important topic has richly paid off." —Publishers Weekly "Quiet elevates the conversation about introverts in our outwardly

oriented society to new

heights. I think that

profiles ... and reporting

discover that, even though they didn't know it, they have been waiting for this book all their lives." —ADAM S. McHUGH, author of Introverts in the

many introverts will

Church
"Susan Cain's Quiet is
wonderfully informative

extravert ideal and the psychology of a sensitive temperament, and she is helpfully perceptive about how introverts can make the most of their personality preferences in all aspects of life. Society needs introverts, so everyone can benefit from the insights in this important book."

about the culture of the

—JONATHAN M. CHEEK, professor of psychology at Wellesley College, coeditor of *Shyness:* Perspectives on Research and Treatment

and personally affecting book. Cain shows that, for all its virtue, America's Extrovert Ideal takes up way too much oxygen.

"A brilliant, important,

Cain herself is the perfect person to make this case—with winning grace and clarity she shows us what it looks like to think outside the group." —CHRISTINE KENNEALLY, author of The First Word

"What Susan Cain

understands—and readers

of this fascinating volume will soon appreciate—is something that psychology and our fast-moving and fast-talking society have been all too slow to realize: Not only is there really nothing wrong with being quiet, reflective, shy, and introverted, but there are distinct advantages to being this way.

and Natalie Reid Dorn Professor, Human and Community Development, University of California, Davis "Author Susan Cain exemplifies her own quiet power in this exquisitely written and highly readable page-

brings

turner. She

—JAY BELSKY, Robert M.

important research and the introvert experience."

—JENNIFER B. KAHNWEILER, Ph.D.,

author of The Introverted

Leader

"Several aspects of Quiet

"Several aspects of *Quiet* are remarkable. First, it is well informed by the research literature but not held captive by it. Second,

written, and 'reader friendly.' Third, it is insightful. I am sure many people wonder why brash, impulsive behavior seems to be rewarded, whereas reflective, thoughtful behavior is overlooked. This book goes beyond superficial such impressions to a more penetrating analysis."

it is exceptionally well

—WILLIAM GRAZIANO,

Psychological Sciences,

Purdue University

professor, Department of



THE POWER OF INTROVERTS IN A WORLD THAT CAN'T STOP TALKING

SUSAN CAIN



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To my childhood family

A species in which everyone was General Patton would not succeed, any more than would a race in which everyone was Vincent van Gogh. I prefer to think that the planet needs athletes, philosophers, sex symbols, painters, scientists; it needs the warmhearted, the hardhearted, the coldhearted, and the weakhearted. It needs those

who can devote their lives to studying how many droplets of water are secreted by the salivary glands of dogs under which circumstances, and it needs those who can capture the passing impression of cherry blossoms in a fourteensyllable poem or devote twenty-five pages to the dissection of a small boy's feelings as he lies in bed in mother to kiss him goodnight.... Indeed the presence of outstanding strengths presupposes that

energy needed in other areas

the dark waiting for his

has been channeled away from them.

—ALLEN SHAWN

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Acknowledgments
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Author's Note

I have been working on this book officially since 2005, and unofficially for my entire adult life. I have spoken and written to hundreds, perhaps thousands, of people about

the topics covered inside,

and have read as many

books, scholarly papers, magazine articles, chatroom discussions, and blog posts. Some of these I mention in the book; others informed almost every sentence I wrote. Quiet stands on many shoulders, especially the scholars and researchers whose work taught me so much. In a perfect world, I would have named every one of my sources, mentors, and interviewees. But for the sake readability, some names appear only in the Notes or Acknowledgments. For similar reasons, I did not use ellipses or brackets in certain quotations but made sure that the extra or missing words did not change the speaker's or writer's meaning. If you

written sources from the original, the citations directing you to the full quotations appear in the Notes. I've changed the names and identifying details of some of the people whose stories I tell, and in the stories of my own work as

a lawyer and consultant.

To protect the privacy of

would like to quote these

the participants in Charles di Cagno's public speaking workshop, who did not plan to be included in a book when they signed up for the class, the story of my first evening in class is a composite based on several sessions; so is the story of Greg and Emily, which is based on many interviews with similar couples. Subject to the limitations of memory, all other stories are recounted as they happened or were told to me. I did not factcheck the stories people told me about themselves, but only included those I believed to be true.

INTRODUCTION

The North and South of Temperament

Montgomery, Alabama.

December 1, 1955. Early evening. A public bus pulls to a stop and a sensibly

dressed woman in her forties gets on. She carries

herself erectly, despite having spent the day bent over an ironing board in a dingy basement tailor shop at the Montgomery Fair department store. Her feet are swollen, her shoulders ache. She sits in the first row of the Colored section and watches quietly as the bus fills with riders. Until the driver orders her to give her seat to a white

passenger. The woman utters a single word that ignites one of the most important civil rights protests of the twentieth century, one word that helps America find its better self. The word is "No." The driver threatens to have her arrested. "You may do that," says Rosa Parks.

He asks Parks why she won't move.

"Why do you all push us around?" she answers simply.

A police officer arrives.

"I don't know," he says. "But the law is the law, and you're under arrest." On the afternoon of her trial and conviction for disorderly conduct, the Montgomery Improvement

Association holds a rally for Parks at the Holt Street Baptist Church, in the poorest section of town. Five thousand gather to support Parks's lonely act of courage. They squeeze inside the church until its pews can hold no more. The rest wait patiently outside, listening through loudspeakers. Reverend Martin Luther

King Jr. addresses the crowd. "There comes a time that people get tired of being trampled over by the iron feet of oppression," he tells them. "There comes a time when people get tired of being pushed out of the glittering sunlight of life's July and left standing amidst the piercing chill of an Alpine November."

He praises Parks's bravery and hugs her. She stands silently, her mere presence enough to galvanize the crowd. The association launches a citywide bus boycott that lasts 381 days. The people trudge miles to work. They carpool with strangers. They change the course of American history. I had always imagined

Rosa Parks as a stately woman with a bold temperament, someone who could easily stand up to a busload of glowering passengers. But when she died in 2005 at the age of ninety-two, the flood of obituaries recalled her as soft-spoken, sweet, and small in stature. They said she was "timid and shy" but had "the courage of a

phrases like "radical humility" and "quiet fortitude." What does it mean to be quiet and have fortitude? these descriptions asked implicitly. How could you be shy and courageous? Parks herself seemed aware of this paradox, calling her autobiography Quiet Strength—a title that

lion." They were full of

our assumptions. Why shouldn't quiet be strong? And what else can quiet do that we don't give it credit for?

challenges us to question

~

Our lives are shaped as profoundly by personality as by gender or race. And the single most important aspect of personality—the "north and south of temperament," as one scientist puts it—is where we fall on the introvertextrovert spectrum. Our place on this continuum influences our choice of friends and mates, and make how we conversation, resolve differences, and show love.

choose and whether or not we succeed at them. It governs how likely we are to exercise, commit adultery, function well without sleep, learn from our mistakes, place big bets in the stock market, delay gratification, be a good leader, and ask "what if." It's reflected in our brain pathways,

It affects the careers we

neurotransmitters, and remote corners of our nervous systems. Today introversion and extroversion are two of the exhaustively most researched subjects in personality psychology, arousing the curiosity of hundreds of scientists. These researchers have made exciting discoveries aided by the latest

part of a long and storied tradition. Poets and philosophers have been thinking about introverts and extroverts since the dawn of recorded time. Both personality types appear in the Bible and in the writings of Greek and Roman physicians, and evolutionary some psychologists say that the

technology, but they're

history of these types reaches back even farther than that: the animal kingdom also boasts "introverts" and "extroverts," as we'll see, from fruit flies to pumpkinseed fish to rhesus monkeys. As with other complementary pairings masculinity femininity, East and West, liberal and conservative—

humanity would be unrecognizable, and vastly diminished, without both personality styles. Take the partnership of Rosa Parks and Martin Luther King Jr.: a formidable orator refusing to give up his seat on a segregated bus wouldn't have had the same effect as a modest woman who'd clearly prefer to keep

silent but for the exigencies of the situation. And Parks didn't have the stuff to thrill a crowd if she'd tried to stand up and announce that she had a dream. But with King's help, she didn't have to. Yet today we make room for a remarkably narrow range of personality styles. We're told that to be great is to be bold, to be happy

is to be sociable. We see ourselves as a nation of extroverts—which means that we've lost sight of who we really are. Depending on which study you consult, one third to one half of Americans are introverts—in other words, one out of every two or three people you know. (Given that the United States is among the most

extroverted of nations, the number must be at least as high in other parts of the world.) If you're not an introvert yourself, you are surely raising, managing, married to, or coupled with one. If these statistics surprise you, that's probably because so many people pretend to be extroverts. Closet

introverts pass undetected on playgrounds, in high school locker rooms, and in the corridors of corporate America. Some fool even themselves, until some life event—a layoff, an empty nest, an inheritance that frees them to spend time as they like —jolts them into taking stock of their true natures. You have only to raise the

subject of this book with friends and acquaintances to find that the most unlikely people themselves consider introverts. It makes sense that so many introverts hide even from themselves. We live with a value system that I call the Extrovert Ideal the omnipresent belief that the ideal self is gregarious,

alpha, and comfortable in the spotlight. The archetypal extrovert prefers action contemplation, risk-taking to heed-taking, certainty to doubt. He favors quick decisions, even at the risk of being wrong. She works well in teams and socializes in groups. We like to think that we value individuality, but all too

often we admire one type of individual—the kind who's comfortable "putting himself out there." Sure, we allow technologically gifted loners who launch companies in garages to have any personality they please, but they are the exceptions, not the rule, and our tolerance extends mainly to those who get fabulously wealthy or hold

the promise of doing so. Introversion—along with its cousins sensitivity, seriousness, and shyness is now a second-class personality trait. somewhere between disappointment and pathology. Introverts living under the Extrovert Ideal are like women in a man's world, discounted because of a trait that goes

are. Extroversion is an enormously appealing personality style, but we've turned it into an oppressive standard to which most of us feel we must conform. The Extrovert Ideal has been documented in many studies, though this research has never been grouped under a single

to the core of who they

name. Talkative people, for example, are rated as smarter, better-looking, more interesting, and more desirable as friends. Velocity of speech counts as well as volume: we rank fast talkers as more competent and likable than slow ones. The same dynamics apply in groups, where research shows that the voluble are considered

smarter than the reticent even though there's zero correlation between the gift of gab and good ideas. Even the word introvert is stigmatized—one informal study, by psychologist Laurie Helgoe, found that introverts described their own physical appearance in vivid language ("greenblue eyes," "exotic," "high cheekbones"), but when asked to describe generic introverts they drew a bland and distasteful picture ("ungainly," "neutral colors," "skin problems"). But we make a grave mistake to embrace the Extrovert Ideal so unthinkingly. Some of our greatest ideas, art, and inventions—from the theory of evolution to van personal computer—came from quiet and cerebral people who knew how to tune in to their inner worlds and the treasures to be found there. Without introverts, the world would be devoid of:

the theory

the theory

gravity

of

Gogh's sunflowers to the

relativity W. B. Yeats's "The Second Coming" Chopin's nocturnes Proust's In Search of Lost Time Peter Pan Orwell's Nineteen Eighty-Four and Animal Farm The Cat in the Hat

Charlie Brown

and Close
Encounters of the
Third Kind
Google
Harry Potter*

Schindler's List, E.T.,

As the science journalist Winifred Gallagher writes: "The glory of the disposition that stops to consider stimuli rather than rushing to engage

with them is its long association with intellectual and artistic achievement. Neither $E = mc^2$ nor Paradise Lost was dashed off by a party animal." Even in less obviously introverted occupations, like finance, politics, and activism, some of the greatest leaps forward were made by introverts. In this book

we'll see how figures like Eleanor Roosevelt, Al Gore, Warren Buffett, Gandhi—and Rosa Parks achieved what they did not in spite of but because of their introversion. Yet, as Quiet will explore, many of the most important institutions of contemporary life are designed for those who enjoy group projects and

high levels of stimulation. As children, our classroom desks are increasingly arranged in pods, the better to foster group learning, and research suggests that the vast majority of teachers believe that the ideal student is an extrovert. We watch TV shows whose protagonists are not the "children next door," like

the Cindy Bradys and Beaver Cleavers of yesteryear, but rock stars and webcast hostesses with outsized personalities, like Hannah Montana and Carly Shay of iCarly. Even Sid the Science Kid, a PBSsponsored role model for the preschool set, kicks off each school day by performing dance moves with his pals. ("Check out

my moves! I'm a rock star!") As adults, many of us work for organizations that insist we work in teams, in offices without walls, for supervisors who value "people skills" above all. To advance our careers, we're expected to ourselves promote unabashedly. The scientists

whose research gets

funded often have confident, perhaps overconfident, personalities. The artists whose work adorns the walls of contemporary museums strike impressive poses at gallery openings. The authors whose books published—once get accepted as a reclusive breed—are now vetted by publicists to make sure

they're talk-show ready. (You wouldn't be reading this book if I hadn't convinced my publisher that I was enough of a pseudo-extrovert promote it.) If you're an introvert, you also know that the bias against quiet can cause deep psychic pain. As a child you might have overheard your parents

apologize for your shyness. ("Why can't you be more like the Kennedy boys?" the Camelot-besotted parents of one man I interviewed repeatedly asked him.) Or at school you might have been prodded to come "out of your shell"—that noxious expression which fails to appreciate that some animals naturally carry

shelter everywhere they go, and that some humans are just the same. "All the comments from childhood still ring in my ears, that I was lazy, stupid, slow, boring," writes a member of an e-mail list called Introvert Retreat. "By the time I was old enough to figure out that I was simply introverted, it was a part of my being, the

assumption that there is something inherently wrong with me. I wish I could find that little vestige of doubt and remove it." Now that you're an adult, you might still feel a pang of guilt when you decline a dinner invitation in favor of a good book. Or maybe you like to eat alone in restaurants and

diners. Or you're told that you're "in your head too much," a phrase that's often deployed against the quiet and cerebral.

Of course, there's another word for such

people: thinkers.

could do without the

pitying looks from fellow

I have seen firsthand how difficult it is for introverts to take stock of their own talents, and how powerful it is when finally they do. For more than ten years I trained people of all stripes—corporate lawyers and college students, hedge-fund managers and couples—in married negotiation skills. Of course, we covered the

basics: how to prepare for a negotiation, when to make the first offer, and what to do when the other person says "take it or leave it." But I also helped clients figure out their natural personalities and how to make the most of them. My very first client was a young woman named Laura. She was a Wall

Street lawyer, but a quiet and daydreamy one who dreaded the spotlight and disliked aggression. She had managed somehow to make it through the crucible of Harvard Law School—a place where classes are conducted in huge, gladiatorial amphitheaters, and where she once got so nervous that she threw up on the

way to class. Now that she was in the real world, she wasn't sure she could represent her clients as forcefully as they expected. For the first three years on the job, Laura was so junior that she never had to test this premise. But one day the senior lawyer she'd been working with went on vacation, leaving

her in charge of an important negotiation. The client was a South American manufacturing company that was about to default on a bank loan and hoped to renegotiate its terms; a syndicate of bankers that owned the endangered loan sat on the other side of the negotiating table. Laura would have

preferred to hide under said table, but she was accustomed to fighting such impulses. Gamely but nervously, she took her spot in the lead chair, flanked by her clients: general counsel on one side and senior financial officer on the other. These happened to be Laura's favorite clients: gracious and soft-spoken, very

different from the masterof-the-universe types her firm usually represented. In the past, Laura had taken the general counsel to a Yankees game and the financial officer shopping for a handbag for her sister. But now these cozy outings—just the kind of socializing Laura enjoyed —seemed a world away. Across the table sat nine

disgruntled investment bankers in tailored suits and expensive shoes, accompanied by their lawyer, a square-jawed woman with a hearty manner. Clearly not the self-doubting type, this woman launched into an impressive speech on how Laura's clients would be lucky simply to accept the bankers' terms. It was, she

said, a very magnanimous offer. Everyone waited for Laura to reply, but she couldn't think of anything to say. So she just sat there. Blinking. All eyes on her. Her clients shifting uneasily in their seats. Her thoughts running in a

familiar loop: I'm too quiet

for this kind of thing, too

unassuming, too cerebral.

She imagined the person who would be better equipped to save the day: someone bold, smooth, ready to pound the table. In middle school this person, unlike Laura, would have been called "outgoing," the highest accolade her seventh-grade classmates knew, higher even than "pretty," for a girl, or "athletic," for a

guy. Laura promised herself that she only had to make it through the day. Tomorrow she would go look for another career. Then she remembered what I'd told her again and again: she was an introvert, and as such she had unique powers in negotiation—perhaps less obvious but no less formidable. She'd probably

prepared more than everyone else. She had a quiet but firm speaking style. She rarely spoke without thinking. Being mild-mannered, she could take strong, even aggressive, positions while coming across as perfectly reasonable. And she tended to ask questions lots of them—and actually listen to the answers,

which, no matter what your personality, is crucial to strong negotiation. So Laura finally started doing what came naturally. "Let's go back a step. What are your numbers based on?" she asked. "What if we structured the loan this way, do you think it might work?" "That way?"

"Some other way?" At first her questions were tentative. She picked up steam as she went along, posing them more forcefully and making it clear that she'd done her homework and wouldn't concede the facts. But she also stayed true to her own style, never raising her voice or losing her decorum. Every time the

bankers made an assertion that seemed unbudgeable, Laura tried to be constructive. "Are you saying that's the only way to go? What if we took a different approach?" Eventually her simple queries shifted the mood in the room, just as the negotiation textbooks say they will. The bankers stopped speechifying and

dominance-posing, activities for which Laura felt hopelessly equipped, and they started having an actual conversation. More discussion. Still no agreement. One of the bankers revved up again, throwing his papers down and storming out of the room. Laura ignored this display, mostly because she didn't know what else to do. Later on someone told her that at that pivotal moment she'd played a good game of called something "negotiation jujitsu"; but she knew that she was just doing what you learn to do naturally as a quiet person in a loudmouth world. Finally the two sides struck a deal. The bankers

left the building, Laura's favorite clients headed for the airport, and Laura went home, curled up with a book, and tried to forget the day's tensions. But the next morning, the lead lawyer for the bankers—the vigorous woman with the strong jaw—called to offer her a job. "I've never seen anyone so nice and so tough at the same time," she said. And the day after that, the lead banker called Laura, asking if her law firm would represent his company in the future. "We need someone who can help us put deals together without letting ego get in the way," he said. By sticking to her own gentle way of doing things,

business for her firm and a job offer for herself. Raising her voice and pounding the table was unnecessary. **Today** Laura understands that her

Laura had reeled in new

introversion is an essential part of who she is, and she embraces her reflective nature. The loop inside her head that accused her of

being too quiet and unassuming plays much less often. Laura knows that she can hold her own when she needs to.



What exactly do I mean when I say that Laura is an *introvert*? When I started writing this book, the first

was precisely how researchers define introversion and extroversion. I knew that in 1921 the influential psychologist Carl Jung had published a bombshell of a book, Psychological Types, popularizing the terms introvert and extrovert as the central building blocks of personality. Introverts

thing I wanted to find out

are drawn to the inner world of thought and feeling, said Jung, extroverts to the external life of people and activities. Introverts focus on the meaning they make of the events swirling around them; extroverts plunge into the events themselves. Introverts recharge their batteries by being alone; extroverts need to recharge when they don't socialize enough. If you've ever taken a Myers-Briggs personality test, which is based on Jung's thinking and used by the majority of universities and Fortune 100 companies, then you may already be familiar with these ideas. But what do contemporary researchers

have to say? I soon discovered that there is no all-purpose definition of introversion extroversion; these are not unitary categories, like "curly-haired" or "sixteenyear-old," in which everyone can agree on who qualifies for inclusion. For example, adherents of the Big Five school of personality psychology

(which argues that human personality can be boiled down to five primary traits) define introversion not in terms of a rich inner life but as a lack of such qualities assertiveness and sociability. There are almost as many definitions of introvert and extrovert as there are personality psychologists, who spend a

great deal of time arguing over which meaning is most accurate. Some think that Jung's ideas are outdated; others swear that he's the only one who got it right. Still, today's psychologists tend to agree on several important points: for example, that introverts and extroverts differ in the level of

outside stimulation that they need to function well. Introverts feel "just right" with less stimulation, as when they sip wine with a close friend, solve a crossword puzzle, or read a book. Extroverts enjoy the extra bang that comes from activities like meeting new people, skiing slippery slopes, and cranking up the stereo. "Other people are very arousing," says the personality psychologist David Winter, explaining why your typical introvert would rather spend her vacation reading on the beach than partying on a cruise ship. "They arouse threat, fear, flight, and love. A hundred people are very stimulating compared to a hundred books or a

hundred grains of sand." Many psychologists would also agree that introverts and extroverts differently. work Extroverts tend to tackle assignments quickly. They make fast (sometimes rash) decisions, and are comfortable multitasking and risk-taking. They enjoy "the thrill of the chase" for rewards like

money and status. Introverts often work more slowly deliberately. They like to focus on one task at a time and can have mighty powers of concentration. They're relatively immune to the lures of wealth and fame. Our personalities also shape our social styles.

Extroverts are the people

who will add life to your dinner party and laugh generously at your jokes. They tend to be assertive, dominant, and in great need of company. Extroverts think out loud and on their feet; they prefer talking to listening, rarely find themselves at a loss for words, and occasionally blurt out things they never meant to say. They're comfortable with conflict, but not with solitude. Introverts, in contrast, may have strong social skills and enjoy parties and business meetings, but after a while wish they

were home in their pajamas. They prefer to devote their social energies to close friends, colleagues, and family.

talk, think before they speak, and often feel as if they express themselves better in writing than in conversation. They tend to dislike conflict. Many have a horror of small talk, but enjoy deep discussions. A few things introverts are not: The word introvert is not a synonym for hermit or misanthrope.

They listen more than they

Introverts can be these things, but most are perfectly friendly. One of the most humane phrases in the English language —"Only connect!"—was written by the distinctly introverted E. M. Forster in a novel exploring the question of how to achieve "human love at its height." Nor are introverts necessarily shy. Shyness is

the fear ωf social disapproval or humiliation, while introversion is a preference for environments that are not overstimulating. Shyness is painful; inherently introversion is not. One reason that people confuse the two concepts is that they sometimes overlap psychologists (though

debate to what degree). Some psychologists map the two tendencies on vertical and horizontal axes, with the introvertextrovert spectrum on the horizontal axis, and the anxious-stable spectrum on the vertical. With this model, you end up with four quadrants of personality types: calm extroverts, anxious (or

impulsive) extroverts, calm introverts, and anxious introverts. In other words, you can be a shy extrovert, like Barbra Streisand, who has a larger-than-life personality and paralyzing stage fright; or a non-shy introvert, like Bill Gates, who by all accounts keeps to himself but is unfazed by the opinions of others. You can also, of course,

be both shy and an introvert: T. S. Eliot was a famously private soul who wrote in "The Waste Land" that he could "show you fear in a handful of dust." Many shy people turn inward, partly as a refuge from the socializing that causes them such anxiety. And many introverts are shy, partly as a result of receiving the message that

with their preference for reflection, and partly because their physiologies, as we'll see, compel them to withdraw from highstimulation environments. But for all their differences, shyness and introversion have in something common profound. The mental state of a shy extrovert sitting

there's something wrong

quietly in a business meeting may be very different from that of a calm introvert—the shy person is afraid to speak up, while the introvert is simply overstimulated but to the outside world, the two appear to be the same. This can give both types insight into how our reverence for alpha status blinds us to things that are good and smart and wise. For very different reasons, shy and introverted people might choose to spend their days in behind-thescenes pursuits like inventing, or researching, or holding the hands of the gravely ill—or in leadership positions they execute with quiet competence. These are not alpha roles, but the people who play them are role models all the same.

If you're still not sure where you fall on the introvert-extrovert spectrum, you can assess yourself here. Answer each

question "true" or "false,"

choosing the answer that

applies to you more often than not.*

1. ____ I prefer one-on-

	one	
	conversations	
	to	group
	activities.	
2	_ I often prefer	
	to 6	express

writing.

3. _____ I enjoy

myself in

	solitude.
4	I seem to care
	less than my
	peers about
	wealth, fame,
	and status.
5	I dislike small
	talk, but I
	enjoy talking
	in depth
	about topics
	that matter
	to me.

6	People tell me	
	that I'm a	
	good listener.	
7	I'm not a big	
	risk-taker.	
8	I enjoy work	
	that allows	
	me to "dive	
	in" with few	
	interruptions.	
9.	I like to	
celebrate		

birthdays on
a small scale,
with only one
or two close
friends or
family
members.
10 People describe
me as "soft-
spoken" or
"mellow."
11 I prefer not to
show or

	uiscuss	111 y
	work	with
	others	unti
	it's finish	ned.
12.	I d	islike
	conflict.	
13.	I do my	best

discuss

conflict.

13. ____ I do my best work on my

own.

14. ____ I tend to think
before I
speak.

15 I feel drained
after being
out and
about, even i
I've enjoyee
myself.
16 I often let call
go through to
voice mail.
17 If I had to
choose, I'e
prefer

weekend

	with		
	absolutely		
	nothing to do		
	to one	with	
	too	many	
	things		
	schedul	ed.	
18	I don't	enjoy	
	multitas	sking.	
19	I	can	
	concentrate		
	easily.		

O. ____ In classroom
situations, I
prefer
lectures to
seminars.

The more often you answered "true," the more introverted you probably are. If you found yourself with a roughly equal

number of "true" and

"false" answers, then you

may be an ambivert—yes, there really is such a word. But even if you answered every single question as an introvert or extrovert, that doesn't mean that your behavior is predictable across all circumstances. We can't say that every introvert is a bookworm or every extrovert wears lampshades at parties any

more than we can say that every woman is a natural consensus-builder and every man loves contact sports. As Jung felicitously put it, "There is no such thing as a pure extrovert or a pure introvert. Such a man would be in the lunatic asylum." This is partly because we are all gloriously complex individuals, but

also because there are so many different kinds of introverts and extroverts. Introversion extroversion interact with our other personality traits and personal histories, producing wildly different kinds of people. So if you're an artistic American guy whose father wished you'd try out for the football team like your

rough-and-tumble brothers, you'll be a very different kind of introvert from, say, a Finnish businesswoman whose parents were lighthouse keepers. (Finland is a famously introverted nation. Finnish joke: How can you tell if a Finn likes you? He's staring at your shoes instead of his own.) Many introverts are also

"highly sensitive," which sounds poetic, but is actually a technical term in psychology. If you are a sensitive sort, then you're more apt than the average person to feel pleasantly overwhelmed Beethoven's "Moonlight Sonata" or a well-turned phrase or an act of extraordinary kindness. You may be quicker than

others to feel sickened by violence and ugliness, and you likely have a very strong conscience. When you were a child you were probably called "shy," and to this day feel nervous when you're being evaluated, for example when giving a speech or on a first date. Later we'll why this examine seemingly unrelated

collection of attributes tends to belong to the same person and why this person is often introverted. (No one knows exactly how many introverts are highly sensitive, but we know that 70 percent of sensitives are introverts, and the other 30 percent tend to report needing a lot of "down time.") All of this complexity

means that not everything you read in Quiet will apply to you, even if you consider yourself a trueblue introvert. For one thing, we'll spend some time talking about shyness and sensitivity, while you might have neither of these traits. That's OK. Take what applies to you, and use the rest to improve your relationships

with others. Having said all this, in Quiet we'll try not to get too hung up on definitions. Strictly defining terms is vital for researchers whose studies depend on pinpointing exactly where introversion stops and other traits, like shyness,

start. But in Quiet we'll concern ourselves more with the *fruit* of that research. Today's psychologists, joined by neuroscientists with their brain-scanning machines, unearthed have illuminating insights that are changing the way we see the world—and ourselves. They are answering questions such as: Why are some people talkative while others measure their words? Why

do some people burrow into their work and others organize office birthday parties? Why are some comfortable people wielding authority while others prefer neither to lead nor to be led? Can introverts be leaders? Is our cultural preference for extroversion in the natural order of things, or is it socially determined? From

evolutionary an perspective, introversion must have survived as a personality trait for a reason—so what might the reason be? If you're an introvert, should you devote your energies to activities that come naturally, or should you stretch yourself, as Laura did that day at the negotiation table?

The answers might surprise you. If there is only one insight you take away from this book, though, I hope it's a newfound sense of entitlement to be yourself. I can vouch personally for the lifetransforming effects of this outlook. Remember that first client I told you about, the one I called

her identity?
That was a story about me. I was my own first

Laura in order to protect

client.* Answer key: exercise: extroverts;commit adultery: extroverts;function well without sleep:

function well without sleep: introverts; learn from our mistakes: introverts; place big bets: extroverts; delay gratification: introverts; be a good leader: in

some cases introverts, in other cases

extroverts, depending on the type of leadership called for; ask "what if": introverts. * Sir Isaac Newton, Albert Einstein, W. B. Yeats, Frédéric Chopin, Marcel Proust, J. M. Barrie, George Orwell, Theodor Geisel (Dr. Seuss), Charles Schulz, Steven Spielberg, Larry Page, J. K. Rowling.

* This is an informal quiz, not a scientifically validated personality test. The questions were formulated based on characteristics of

introversion often accepted by contemporary researchers.

Part One

THE EXTROVERT IDEAL

THE RISE OF THE "MIGHTY LIKEABLE FELLOW"

How Extroversion Became the Cultural Ideal

Strangers' eyes, keen and critical.
Can you meet them proudly
—confidently—without
fear?

—PRINT ADVERTISEMENT FOR WOODBURY'S SOAP, 1922

The date: 1902. The place:

Church. Harmony Missouri, a tiny, dot-onthe-map town located on a floodplain a hundred miles from Kansas City. Our young protagonist: a goodnatured but insecure high school student named

Dale. Skinny, unathletic, and fretful, Dale is the son of a morally upright but perpetually bankrupt pig farmer. He respects his parents but dreads following in their povertystricken footsteps. Dale worries about other things, too: thunder and lightning, going to hell, and being tongue-tied at crucial

moments. He even fears his wedding day: What if he can't think of anything to say to his future bride? One day a Chautauqua speaker comes to town. Chautauqua The movement, born in 1873 and based in upstate New York, sends gifted speakers across the country to lecture on literature, science, and religion. Rural

Americans prize these presenters for the whiff of glamour they bring from the outside world-and their power to mesmerize an audience. This particular speaker captivates the young Dale with his own rags-to-riches tale: once he'd been a lowly farm boy with a bleak future, but he developed a charismatic

the stage at Chautauqua. Dale hangs on his every word. A few years later, Dale is again impressed by the value of public speaking. His family moves to a farm three miles outside of Warrensburg, Missouri, so

he can attend college there

without paying room and

board. Dale observes that

speaking style and took

the students who win campus speaking contests are seen as leaders, and he resolves to be one of them. He signs up for every contest and rushes home at night to practice. Again and again he loses; Dale is dogged, but not much of an orator. Eventually, though, his efforts begin to pay off. He transforms himself into a speaking

champion and campus hero. Other students turn to him for speech lessons; he trains them and they start winning, too. By the time Dale leaves college in 1908, his parents are still poor, but corporate America is booming. Henry Ford is selling Model Ts like griddle cakes, using the slogan "for business and

for pleasure." J.C. Penney, Woolworth, and Sears Roebuck have become household names. Electricity lights up the homes of the middle class; indoor plumbing spares them midnight trips to the outhouse. The new economy calls for a new kind of man-a salesman, a social operator, someone with a

ready smile, a masterful handshake, and the ability to get along with colleagues while simultaneously outshining them. Dale joins the swelling ranks of salesmen, heading out on the road with few possessions but his silver tongue. Dale's last name is (Carnagey, Carnegie actually; he changes the

spelling later, likely to evoke Andrew, the great industrialist). After a few grueling years selling beef for Armour and Company, he sets up shop as a public-speaking teacher. Carnegie holds his first class at a YMCA night school on 125th Street in New York City. He asks for the usual two-dollars-persession salary for night

school teachers. The Y's director, doubting that a public-speaking class will generate much interest, refuses to pay that kind of money. But the class is an overnight sensation, and Carnegie goes on to found the Dale Carnegie Institute, dedicated to helping businessmen root out the very insecurities

that had held him back as a young man. In 1913 he publishes his first book, Public Speaking and Influencing Men in Business. "In the days when pianos and bathrooms were luxuries," Carnegie writes, "men regarded ability in speaking as a peculiar gift, needed only by the lawyer, clergyman, or statesman. Today we have come to

those who would forge ahead in the keen competition of business."

realize that it is the

indispensable weapon of

from farmboy to salesman to public-speaking icon is also the story of the rise of

Carnegie's metamorphosis

the Extrovert Ideal. Carnegie's iourney a cultural reflected evolution that reached a tipping point around the turn of the twentieth century, changing forever who we are and whom we admire, how we act at job interviews and what we look for in an employee, how we court our mates and raise our children.

America had shifted from what the influential cultural historian Warren Susman called a Culture of Character to a Culture of Personality—and opened up a Pandora's Box of personal anxieties from which we would never quite recover. In the Culture of Character, the ideal self was serious, disciplined,

and honorable. What counted was not so much the impression one made in public as how one behaved in private. The word personality didn't exist in English until the eighteenth century, and the idea of "having a good personality" was not widespread until the twentieth. But when they embraced

the Culture of Personality, Americans started to focus on how others perceived them. They became captivated by people who bold and were entertaining. "The social role demanded of all in the new Culture of Personality was that of a performer," Susman famously wrote. "Every American was to become a performing self."

The rise of industrial America was a major force behind this cultural evolution. The nation quickly developed from an agricultural society of little houses on the prairie to an urbanized, "the business of America is business" powerhouse. In the country's early days, most Americans lived like Dale Carnegie's family, on farms

or in small towns, interacting with people since they'd known childhood. But when the twentieth century arrived, a perfect storm of big business, urbanization, and mass immigration blew the population into the cities. In 1790, only 3 percent of Americans lived in cities; in 1840, only 8 percent did; by 1920, more than a

third of the country were urbanites. "We cannot all live in cities," wrote the news editor Horace Greeley in 1867, "yet nearly all seem determined to do so." **Americans** found themselves working no longer with neighbors but with strangers. "Citizens" morphed into "employees," facing the

question of how to make a good impression on people to whom they had no civic or family ties. "The reasons why one man gained a promotion or one woman suffered a social snub," writes the historian Roland Marchand, "had become less explicable on grounds of long-standing favoritism or old family feuds. In the increasingly anonymous business and social relationships of the age, one might suspect that anything—including a impression—had first made the crucial Americans difference." responded to these pressures by trying to become salesmen who could sell not only their company's latest gizmo but also themselves.

One of the most powerful lenses through which to view the from transformation Character to Personality is the self-help tradition in which Dale Carnegie played such a prominent role. Self-help books have always loomed large in the American psyche. Many of the earliest conduct guides were religious parables,

like The Pilgrim's Progress, published in 1678, which warned readers to behave with restraint if they wanted to make it into heaven. The advice manuals of the nineteenth century were less religious but still preached the value of a noble character. They featured case studies of historical heroes like Abraham Lincoln, revered

not only as a gifted communicator but also as a modest man who did not, as Ralph Waldo Emerson put it, "offend by superiority." They also celebrated regular people who lived highly moral lives. A popular 1899 manual called Character: The Grandest Thing in the World featured a timid shop girl who gave away

her meager earnings to a freezing beggar, then rushed off before anyone could see what she'd done. Her virtue, the reader understood, derived not only from her generosity but also from her wish to remain anonymous. But by 1920, popular self-help guides had changed their focus from inner virtue to outer

charm—"to know what to say and how to say it," as one manual put it. "To create a personality is power," advised another. "Try in every way to have a ready command of the manners which make people think 'he's a mighty likeable fellow,' " said a third. "That is the beginning of a reputation for personality." Success

magazine and *The Saturday* Evening Post introduced departments instructing readers on the art of conversation. The same author, Orison Swett Marden, who wrote Character: The Grandest Thing in the World in 1899, produced another popular title in 1921. It was called Masterful Personality. Many of these guides

written for were businessmen, but women were also urged to work on a mysterious quality "fascination." called Coming of age in the 1920s was such business competitive compared to what their grandmothers had experienced, warned one beauty guide, that they had to be visibly

charismatic: "People who pass us on the street can't know that we're clever and charming unless we look it." Such advice—ostensibly meant to improve people's lives-must have made even reasonably confident people uneasy. Susman counted the words that appeared most frequently

in the personality-driven

advice manuals of the early twentieth century and compared them to the character guides of the nineteenth century. The earlier guides emphasized attributes that anyone could work on improving, described by words like Citizenship Duty Work

Reputation Morals Manners Integrity But the new guides celebrated qualities that were—no matter how easy Dale Carnegie made it

sound—trickier to acquire.

Either you embodied these

Golden deeds

Honor

Fascinating
Stunning
Attractive

qualities or you didn't:

Magnetic

Glowing

Forceful

Energetic

Dominant

It was no coincidence that in the 1920s and the

obsessed with movie stars. Who better than a matinee idol to model personal magnetism?

1930s, Americans became



Americans also received advice on self-presentation —whether they liked it or

not—from the advertising

ads were straightforward product announcements ("EATON'S HIGHLAND LINEN: THE FRESHEST AND CLEANEST WRITING paper"), the new personality-driven ads cast consumers as performers with stage fright from which only the advertiser's product might rescue them. These ads focused

industry. While early print

spotlight. "ALL AROUND YOU PEOPLE ARE JUDGING YOU SILENTLY," warned a 1922 ad for Woodbury's soap. "CRITICAL EYES ARE SIZING YOU UP RIGHT NOW," advised the Williams Shaving Cream company. Madison Avenue spoke directly to the anxieties of

obsessively on the hostile

glare of the public

managers. In one ad for Dr. West's toothbrushes, a prosperous-looking fellow sat behind a desk, his arm cocked confidently behind his hip, asking whether you've "ever tried selling

male salesmen and middle

YOURSELF TO YOU? A FAVORABLE FIRST IMPRESSION IS THE GREATEST SINGLE FACTOR IN BUSINESS OR SOCIAL SUCCESS." The Williams

Shaving Cream ad featured slick-haired, a mustachioed man urging readers to "LET YOUR FACE REFLECT CONFIDENCE, NOT WORRY! IT'S THE 'LOOK' OF YOU BY WHICH YOU ARE JUDGED MOST OFTEN." Other ads reminded women that their success in the dating game depended not only on looks but also on

personality. In 1921 a Woodbury's soap ad showed a crestfallen young woman, home alone after a disappointing evening out. She had "longed to be successful, gay, triumphant," the text sympathized. But without the help of the right soap, the woman was a social failure. Ten years later, Lux laundry detergent ran a print ad featuring a plaintive letter written to Dorothy Dix, the Dear Abby of her day. "Dear Miss Dix," read the letter, "How can I make myself more popular? I am fairly pretty and not a dumbbell, but I am so timid and selfconscious with people. I'm always sure they're not going to like me.... —Joan

Miss Dix's answer came back clear and firm. If only Joan would use Lux detergent on her lingerie, curtains, and sofa cushions, she would soon gain a "deep, sure, inner conviction of being charming." This portrayal

courtship as a high-stakes

performance reflected the

bold new mores of the Culture of Personality. Under the restrictive (in some cases repressive) social codes of the Culture of Character, both genders displayed some reserve when it came to the mating dance. Women who were too loud or made inappropriate eye contact with strangers were considered brazen.

Upper-class women had more license to speak than did their lower-class counterparts, and indeed were judged partly on their talent for witty repartee, but even they were advised to display blushes and downcast eyes. They were warned by conduct manuals that "the coldest reserve" was "more admirable in a woman

man wishe[d] to make his wife than the least to undue approach familiarity." Men could adopt a quiet demeanor that implied selfpossession and a power that didn't need to flaunt itself. Though shyness per se was unacceptable, reserve was a mark of good breeding. But with the advent of

the Culture of Personality, the value of formality began to crumble, for women and men alike. Instead of paying ceremonial calls on women and making serious declarations of intention, men were now expected to verbally launch sophisticated courtships in which they threw women "a line" of elaborate

flirtatiousness. Men who were too quiet around women risked being thought gay; as a popular 1926 sex guide observed, "homosexuals are invariably timid, shy, retiring." Women, too, were expected to walk a fine line between propriety and boldness. If they responded too shyly to romantic overtures, they

were sometimes called "frigid." The field of psychology also began to grapple with the pressure to project confidence. In the 1920s an influential psychologist named Gordon Allport created a diagnostic test of "Ascendance-Submission" measure social dominance. "Our current civilization," observed

Allport, who was himself shy and reserved, "seems to place a premium upon the aggressive person, the 'go-getter.' " In 1921, Carl Jung noted the newly precarious status of introversion. Jung himself saw introverts as "educators and promoters of culture" who showed the value of "the interior life which is so painfully

wanting in our civilization." he But acknowledged that their "reserve and apparently groundless embarrassment naturally arouse all the current prejudices against this type." But nowhere was the need to appear self-assured more apparent than in a new concept in psychology called the inferiority

complex. The IC, as it became known in the popular press, was developed in the 1920s by a Viennese psychologist named Alfred Adler to describe feelings of inadequacy and their consequences. "Do you feel insecure?" inquired the cover of Adler's bestselling book, Understanding Human Nature. "Are you

fainthearted? Are you submissive?" Adler explained that all infants and small children feel inferior, living as they do in a world of adults and older siblings. In the normal process of growing up they learn to direct these feelings into pursuing their goals. But if things go awry as they mature, they might be

IC—a grave liability in an increasingly competitive society.

The idea of wrapping their social anxieties in the

saddled with the dreaded

neat package of a psychological complex appealed to many Americans. The Inferiority Complex became an allpurpose explanation for problems in many areas of

life, ranging from love to parenting to career. In 1924, Collier's ran a story about a woman who was afraid to marry the man she loved for fear that he had an IC and would never amount to anything. Another popular magazine ran an article called "Your Child and That Fashionable Complex," explaining to moms what

could cause an IC in kids and how to prevent or cure one. Everyone had an IC, it seemed; to some it was, paradoxically enough, a mark of distinction. Lincoln, Napoleon, Teddy Roosevelt, Edison, and Shakespeare—all had suffered ICs, 1939 according to a Collier's article. "So," concluded the magazine,

"if you have a big, husky, in-growing inferiority complex you're about as lucky as you could hope to be, provided you have the backbone along with it." Despite the hopeful tone of this piece, child guidance experts of the 1920s set about helping to develop children winning personalities. then, Until

professionals had worried mainly about sexually precocious girls and delinquent boys, but now psychologists, social workers, and doctors focused on the everyday with the child "maladjusted personality"—particularly shy children. Shyness could lead to dire outcomes, they warned,

from alcoholism to suicide, outgoing while an personality would bring social and financial success. The experts advised parents to socialize their children well and schools to change their emphasis from booklearning to "assisting and guiding the developing personality." Educators took up this mantle enthusiastically. By 1950 the slogan of the Mid-Century White House Conference on Children and Youth was "A healthy personality for every child." Well-meaning parents of the midcentury agreed that quiet was unacceptable and gregariousness ideal for both girls and boys. Some discouraged their

children from solitary and serious hobbies, like classical music, that could make them unpopular. They sent their kids to school at increasingly young ages, where the main assignment was learning to socialize. Introverted children were often singled out as problem cases (a situation familiar to anyone with an

introverted child today). William Whyte's The Organization Man, a 1956 best-seller, describes how parents and teachers conspired to overhaul the personalities of quiet children. "Johnny wasn't doing so well at school," Whyte recalls a mother telling him. "The teacher explained to me that he was doing fine on his

lessons but that his social adjustment was not as good as it might be. He would pick just one or two friends to play with, and sometimes he was happy to remain by himself." Parents welcomed such interventions, said Whyte. "Save for a few odd parents, most are grateful that the schools work so hard to offset tendencies to

introversion and other suburban abnormalities." Parents caught up in this value system were not unkind, or even obtuse; they were only preparing their kids for the "real world." When these children grew older and applied to college and later for their first jobs, they faced the same standards

gregariousness. University admissions officers looked the most not for exceptional candidates, but for the most extroverted. Harvard's provost Paul Buck declared in the late 1940s that Harvard should reject the "sensitive, neurotic" type and the "intellectually over-stimulated" in favor of boys of the "healthy

extrovert kind." In 1950, Yale's president, Alfred Griswold, Whitney declared that the ideal Yalie was not a "beetlebrowed, highly specialized intellectual, but a wellrounded man." Another dean told Whyte that "in screening applications from secondary schools he felt it was only common sense to take into account

not only what the college wanted, but what, four years later, corporations' recruiters would want. 'They like a pretty gregarious, active type,' he said. 'So we find that the best man is the one who's had an 80 or 85 average in school and plenty of extracurricular activity. We see little use for the "brilliant" introvert.'

This college dean grasped very well that the model employee of the midcentury—even one whose job rarely involved dealing with the public, like a research scientist in a corporate lab—was not a deep thinker but a hearty extrovert with a salesman's personality. "Customarily, whenever the word brilliant is used," explains Whyte, "it either precedes the word 'but' (e.g., 'We are all for brilliance, but ...') or is coupled with such words as erratic, eccentric, introvert, screwball, etc." "These fellows will be having contact with other people in the organization," said one 1950s executive about the hapless scientists in his employ, "and it helps if

they make good a impression." The scientist's job was not only to do the research but also to help sell it, and that required a hail-fellowwell-met demeanor. At IBM, a corporation that embodied the ideal of the company man, the sales force gathered each morning to belt out the company anthem, "Ever

Onward," and to harmonize on the "Selling IBM" song, set to the tune of "Singin' in the Rain." "Selling IBM," it began, "we're selling IBM. What a glorious feeling, the world is our friend." The ditty built to a stirring close: "We're always in trim, we work with a vim. We're selling, just selling, IBM." Then they went off to

pay their sales calls, proving the that admissions people at Harvard and Yale were probably right: only a certain type of fellow could possibly have been interested in kicking off his mornings this way. The rest of the organization men would have to manage as best they could. And if the

history of pharmaceutical consumption is any indication, many buckled under such pressures. In 1955 a drug company named Carter-Wallace released the anti-anxiety drug Miltown, reframing anxiety as the natural product of a society that was both dog-eat-dog and relentlessly social. Miltown was marketed to men and

immediately became the fastest-selling pharmaceutical **American** history, according to the social historian Andrea Tone. By 1956 one of every twenty Americans had tried it; by 1960 a third of all prescriptions from U.S. doctors were for Miltown or a similar drug called Equanil. "ANXIETY AND TENSION AGE," read the Equanil ad.

The 1960s tranquilizer

ARE THE COMMONPLACE OF THE

Serentil followed with an ad campaign even more direct in its appeal to improve social performance. "FOR THE

ANXIETY THAT COMES FROM NOT

FITTING IN," it empathized.

Of course, the Extrovert Ideal is not a modern invention. Extroversion is in our DNA—literally, according to some psychologists. The trait has been found to be less prevalent in Asia and Africa than in Europe and whose America, populations descend largely from the migrants of the world. It makes

these sense, say researchers, that world travelers were more extroverted than those who stayed home—and that they passed on their traits to their children and their children's children. "As personality traits are genetically transmitted," writes the psychologist Kenneth Olson, "each succeeding wave

emigrants to a new continent would give rise over time to a population of more engaged individuals than reside in the emigrants' continent of origin." We can also trace our admiration of extroverts to the Greeks, for whom oratory was an exalted skill, and to the Romans, for whom the worst

possible punishment was banishment from the city, with its teeming social life. Similarly, we revere our founding fathers precisely because they were loudmouths on the subject of freedom: Give me liberty or give me death! Even the Christianity of early American religious revivals, dating back to the First Great Awakening of

the eighteenth century, on depended showmanship of ministers who were considered successful if they caused crowds of normally reserved people to weep and shout and generally lose their decorum. "Nothing gives me more pain and distress than to see a minister standing almost motionless, coldly

plodding on as mathematician would calculate the distance of the Moon from the Earth," complained a religious newspaper in 1837. As this disdain suggests, early Americans revered action and were suspicious of intellect, associating the life of the mind with the languid, ineffectual European aristocracy they had left behind. The 1828 presidential campaign pitted a former Harvard professor, John Quincy Adams, against Andrew Jackson, a forceful military hero. A Jackson campaign tellingly slogan distinguished the two: "John Quincy Adams who can write / And Andrew Jackson who can fight." The victor of that

campaign? The fighter beat the writer, as the cultural historian Neal Gabler puts it. (John Quincy Adams, incidentally, is considered by political psychologists to be one of the few introverts in presidential history.) But the rise of the Culture of Personality intensified such biases,

and applied them not only to political and religious leaders, but also to regular people. And though soap manufacturers may have profited from the new emphasis on charm and charisma, not everyone was pleased with this development. "Respect for human individual personality has with us reached its lowest point," observed one intellectual in 1921, "and it is delightfully ironical that no nation is so constantly talking about personality as we are. We actually have schools for 'selfexpression' and 'selfdevelopment,' although we seem usually to mean the expression and development of the personality of a successful

real estate agent." Another critic bemoaned the slavish attention Americans were starting to pay to entertainers: "It is remarkable how much attention the stage and things pertaining to it are receiving nowadays from the magazines," he grumbled. Only twenty years earlier—during the Culture of Character, that is—such topics would have considered been indecorous; now they had become "such a large part of the life of society that it has become a topic of conversation among all classes." Even T. S. Eliot's famous 1915 poem The Love Song of J. Alfred Prufrock—in which he laments the need to "prepare a face to meet

the faces that you meet" seems a cri de coeur about the new demands of selfpresentation. While poets of the previous century had wandered lonely as a cloud through the countryside (Wordsworth, in 1802) or repaired in solitude to Walden Pond (Thoreau, in 1845), Eliot's Prufrock mostly worries about being looked at by "eyes that fix you in a formulated phrase" and pin you, wriggling, to a wall.

Fast-forward nearly a hundred years, and

Prufrock's protest is enshrined in high school

syllabi, where it's dutifully

memorized, then quickly forgotten, by teens increasingly skilled at shaping their own online and offline personae. These students inhabit a world in which status, income, and self-esteem depend more than ever on the ability to meet the demands of the Culture of Personality. The pressure to entertain, to sell

visibly anxious keeps ratcheting up. The number of Americans who considered themselves shy increased from 40 percent in the 1970s to 50 percent in the 1990s, probably because we measured ourselves against ever standards of higher fearless self-presentation. "Social anxiety disorder"—

ourselves, and never to be

which essentially means pathological shyness—is now thought to afflict nearly one in five of us. The most recent version of the Diagnostic and Statistical Manual (DSM-IV), the psychiatrist's bible of mental disorders, considers the fear of public speaking to be a pathology —not an annoyance, not a disadvantage, but a disease

—if it interferes with the sufferer's job performance. "It's not enough," one senior manager at Eastman Kodak told the author Daniel Goleman, "to be able to sit at your computer excited about a fantastic regression analysis you're if squeamish about presenting those results to executive group."

(Apparently it's OK to be squeamish about doing a regression analysis if you're excited about giving speeches.) But perhaps the best way to take the measure of the twenty-first-century Culture of Personality is to return to the self-help arena. Today, a full century after Dale Carnegie launched that

first public-speaking workshop at the YMCA, his best-selling book *How* to Win Friends and Influence People is a staple of airport bookshelves and business best-seller lists. The Dale Carnegie Institute still offers updated versions of Carnegie's original classes, and the ability to communicate fluidly remains a core feature of

curriculum. the Toastmasters, the nonprofit organization established in 1924 whose members meet weekly to practice public speaking and whose founder declared that "all talking is selling and all selling involves talking," is still thriving, with more than 12,500 chapters in 113 countries.

The promotional video on Toastmasters' website features a skit in which two colleagues, Eduardo and Sheila, sit in the audience at the "Sixth Annual Global Business Conference" as a nervous speaker stumbles through a pitiful presentation. "I'm so glad I'm not him," whispers Eduardo. "You're joking, right?"

replies Sheila with a satisfied smile. "Don't you remember last month's sales presentation to those new clients? I thought you were going to faint." "I wasn't that bad, was 1?" "Oh, you were that bad. Really bad. Worse, even." Eduardo looks suitably ashamed, while the rather insensitive Sheila seems

oblivious. "But," says Sheila, "you can fix it. You can do better.... Have you ever heard of Toastmasters?" Sheila, a young and attractive brunette, hauls Eduardo to a Toastmasters meeting. There she volunteers to perform an exercise called "Truth or Lie," in which she's supposed to tell the group

of fifteen-odd participants a story about her life, after which they decide whether or not to believe her. "I bet I can fool everyone," she whispers to Eduardo sotto voce as she marches to the podium. She spins an elaborate tale about her years as an opera singer, concluding with her poignant decision to give it all up to spend

more time with her family. When she's finished, the toastmaster of the evening asks the group whether they believe Sheila's story. All hands in the room go up. The toastmaster turns to Sheila and asks whether it was true. "I can't even carry a tune!" she beams triumphantly. Sheila comes across as

disingenuous, but also oddly sympathetic. Like the anxious readers of the 1920s personality guides, she's only trying to get ahead at the office. "There's so much competition in my work environment," she confides to the camera, "that it makes it more important than ever to keep my skills sharp."

But what do "sharp skills" look like? Should we become so proficient at self-presentation that we can dissemble without anyone suspecting? Must we learn to stage-manage our voices, gestures, and body language until we can tell—sell—any story we want? These seem venal aspirations, a marker of how far we've come-

and not in a good way since the days of Dale Carnegie's childhood. Dale's parents had high moral standards; they wanted their son to pursue a career in religion or education, not sales. It seems unlikely that they would have approved of a self-improvement technique called "Truth or Lie." Or, for that matter, of

Carnegie's best-selling advice on how to get people to admire you and do your bidding. How to Win Friends and Influence People is full of chapter titles like "Making People Glad to Do What You Want" and "How to Make People Like You Instantly." All of which raises the question, how did we go Character from

realizing that we had sacrificed something meaningful along the way?

Personality

without

THE MYTH OF CHARISMATIC LEADERSHIP

The Culture of Personality, a Hundred Years Later

Society is itself an education in the extrovert values, and rarely has there been a society that has preached them so hard. No man is an

island, but how John Donne
would writhe to hear how
often, and for what reasons,
the thought is so tiresomely
repeated.
—WILLIAM WHYTE

Salesmanship as a Virtue: Live with Tony Robbins

"Are you excited?" cries a young woman named

Stacy as I hand her my registration forms. Her honeyed voice rises into one big exclamation point. I nod and smile as brightly as I can. Across the lobby of the Atlanta Convention Center, I hear people shrieking. "What's that noise?" I ask. "They're getting everyone pumped up to go

inside!" Stacy enthuses. "That's part of the whole UPW experience." She hands me a purple spiral binder and a laminated nametag to wear around my neck. UNLEASH THE WITHIN, **POWER** proclaims the binder in big block letters. Welcome to Tony Robbins's entry-level seminar. \$895 I've paid

exchange, according to the promotional materials, for learning how to be more energetic, gain momentum in my life, and conquer my fears. But the truth is that I'm not here to unleash the power within me (though I'm always happy to pick up a few pointers); I'm here because this seminar is the first stop on my journey to understand the

I've seen Tony Robbins's infomercials—he claims that there's always one airing at any given moment—and he strikes me as one of the more

Extrovert Ideal.

me as one of the more extroverted people on earth. But he's not just any extrovert. He's the king of self-help, with a client roster that has included President Clinton, Tiger

Woods, Nelson Mandela, Thatcher, Margaret Princess Diana, Mikhail Gorbachev, Mother Teresa, Serena Williams, Donna Karan—and 50 million other people. And the selfhelp industry, into which hundreds of thousands of Americans pour their hearts, souls, and some \$11 billion a year, by definition reveals our

conception of the ideal self, the one we aspire to become if only we follow the seven principles of this and the three laws of that. I want to know what this ideal self looks like. Stacy asks if I've brought my meals with me. It seems a strange question: Who carries supper with them from New York City to Atlanta? She explains

that I'll want to refuel at my seat; for the next four days, Friday through Monday, we'll be working fifteen hours a day, 8:00 a.m. to 11:00 p.m., with only one short afternoon break. Tony will be onstage the entire time and I won't want to miss a moment. I look around the lobby. Other people seem to have

come prepared—they're strolling toward the hall, cheerfully lugging grocery bags stuffed with PowerBars, bananas, and corn chips. I pick up a couple of bruised apples from the snack bar and make my way to the auditorium. Greeters wearing UPW T-shirts and ecstatic smiles line the entrance, springing up and

down, fists pumping. You can't get inside without slapping them five. I know, because I try. Inside the vast hall, a phalanx of dancers is warming up the crowd to the Billy Idol song "Mony Mony," amplified by a world-class sound system, magnified on giant Megatron screens flanking the stage. They move in sync like backup dancers in a Britney Spears video, but are dressed like middle The lead managers. performer is a fortysomething balding fellow wearing a white button-down shirt, conservative tie, rolled-up sleeves, and a great-tomeet-you smile. The message seems to be that we can all learn to be this

exuberant when we get to work every morning.

Indeed, the dance moves are simple enough for us to imitate at our seats: jump and clap twice; clap to the left; clap to the

right. When the song changes to "Gimme Some Lovin'," many in the audience climb atop their metal folding chairs, where they continue to whoop and clap. I stand somewhat peevishly with arms crossed until I decide that there's nothing to be done but join in and hop up and down along with my seatmates. Eventually the moment we've all been waiting for arrives: Tony Robbins bounds onstage. Already gigantic at six feet seven

inches, he looks a hundred

feet tall on the Megatron screen. He's movie-star handsome, with a head of thick brown hair, a Pepsodent smile, and impossibly defined cheekbones. EXPERIENCE TONY ROBBINS LIVE! the seminar advertisement had promised, and now here he is, dancing with the euphoric crowd. It's about fifty degrees in

the hall, but Tony is wearing a short-sleeved polo shirt and shorts. Many in the audience have brought blankets with them, having somehow known that the auditorium would be kept refrigeratorcold, presumably to accommodate Tony's highoctane metabolism. It would take another Ice Age to cool this man off.

He's leaping and beaming and managing, somehow, to make eye contact with all 3,800 of us. The greeters jump rapturously in the aisles. Tony opens his arms wide, embracing us all. If Jesus returned to Earth and made his first stop at the Atlanta Convention Center, it would be hard to imagine a more jubilant reception.

This is true even in the back row where I'm sitting with others who spent only \$895 for "general admission," as opposed to \$2,500 for a "Diamond Premiere Membership," which gets you a seat up front, as close to Tony as possible. When I bought my ticket over the phone, the account rep advised me that the people in the

front rows-where "you're looking directly at Tony for sure" instead of relying on the Megatron—are generally "more successful in life." "Those are the people who have more energy," she advised. "Those are the people who are screaming." I have no way of judging how successful the people next to me are, but they

certainly seem thrilled to be here. At the sight of Tony, exquisitely stage-lit to set off his expressive face, they cry out and pour into the aisles rock-concert style. Soon enough, I join them. I've always loved to dance, and I have to admit that gyrating en masse to Top 40 classics is an excellent way to pass the

time. Unleashed power comes from high energy, according to Tony, and I can see his point. No wonder people travel from far and wide to see him in person (there's a lovely young woman from Ukraine sitting—no, leaping—next to me with a delighted smile). I really must start doing aerobics again when I get back to New York, I decide.

~

When the music finally stops, Tony addresses us in a raspy voice, half Muppet, half bedroom-sexy.

half bedroom-sexy, introducing his theory of "Practical Psychology."

The gist of it is that knowledge is useless until

it's coupled with action. He has a seductive, fasttalking delivery that Willy Loman would have sighed Demonstrating over. practical psychology in action, Tony instructs us to find a partner and to greet each other as if we feel inferior and scared of social rejection. I team up with a construction worker from downtown Atlanta,

and we extend tentative handshakes, looking bashfully at the ground as the song "I Want You to Want Me" plays in the background. Then Tony calls out a series of artfully phrased questions: "Was your breath full or shallow?" "SHALLOW!" yells the audience in unison.

"Did you hesitate or go straight toward them?" "HESITATE!" "Was there tension in your body or were you relaxed?" "TENSION!" Tony asks us to repeat the exercise, but this time to greet our partners as if the impression we make in the first three to five

seconds

determines

whether they'll do business with us. If they don't, "everyone you care about will die like pigs in hell." I'm startled by Tony's emphasis on business success—this is a seminar about personal power, not sales. Then I remember that Tony is not only a life coach but also a businessman extraordinaire; he started

his career in sales and today serves as chairman of seven privately held companies. BusinessWeek once estimated his income at \$80 million a year. Now he seems to be trying, with all the force of his mighty personality, to impart his salesman's touch. He wants us not only to feel great but to radiate waves of energy, not just to be

liked, but to be well liked; he wants us to know how to sell ourselves. I've already been advised by the Anthony Robbins Companies, via a personalized forty-fivepage report generated by an online personality test that I took in preparation for this weekend, that "Susan" should work on her tendency to tell, not sell, her ideas. (The report was written in the third person, as if it was to be reviewed by some imaginary manager my people evaluating skills.) The audience divides into pairs again, enthusiastically introducing themselves and pumping their partners' hands. When

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we're finished,
                       the
questions repeat.
  "Did that feel better, yes
or no?"
  "YES!"
  "Did you use your body
differently, yes or no?"
  "YES!"
  "Did you use more
muscles in your face, yes
or no?"
  "YES!"
  "Did you move straight
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toward them, yes or no?" "YES!" This exercise seems designed to show how our physiological state influences our behavior and emotions, but it also suggests that salesmanship governs even the most

suggests that salesmanship governs even the most neutral interactions. It implies that every encounter is a high-stakes game in which we win or

lose the other person's favor. It urges us to meet social fear in as extroverted a manner as possible. We must be vibrant and confident, we must not seem hesitant, we must smile so that our interlocutors will smile upon us. Taking these steps will make us feel good—and the better we feel, the better we can sell

ourselves. Tony seems the perfect person to demonstrate such skills. He strikes me as having a "hyperthymic" temperament—a kind of extroversion-on-steroids characterized, in the words of one psychiatrist, by "exuberant, upbeat, overenergetic, and lifelong overconfident traits" that

recognized as an asset in business, especially sales. People with these traits often make wonderful company, as Tony does onstage. But what if you admire the hyperthymic among us, but also like your calm and thoughtful self? What if you love knowledge for its own sake, not necessarily as a blueprint

to action? What if you wish there were more, not fewer, reflective types in the world? Tony seems to have anticipated such questions. "But I'm not an extrovert, you say!" he told us at the start of the seminar. "So? You don't have to be an extrovert to feel alive!" True enough. But it seems, according to Tony,

that you'd better act like one if you don't want to flub the sales call and watch your family die like pigs in hell.

The evening culminates with the Firewalk, one of

the flagship moments of the UPW seminar, in

which we're challenged to walk across a ten-foot bed of coals without burning our feet. Many people attend UPW because they've heard about the Firewalk and want to try it themselves. The idea is to propel yourself into such a fearless state of mind that you can withstand even 1,200-degree heat. Leading up to that

moment, we spend hours Tony's practicing techniques—exercises, dance moves. visualizations. I notice that people in the audience are starting to mimic Tony's every movement and facial expression, including his signature gesture of pumping his arm as if he were pitching a baseball. The evening crescendoes

until finally, just before midnight, we march to the parking lot in a torchlit procession, nearly four thousand strong, chanting YES! YES! YES! to the thump of a tribal beat. This seems to electrify my fellow UPWers, but to me this drum-accompanied chant—YES! Ba-da-da, YES! Dum-dum-dum-DUM, YES! Ba-da-da—sounds

like the sort of thing a Roman general would stage to announce his arrival in the city he's about to sack. The greeters who manned the gates to the auditorium earlier in the day with high fives and bright smiles have morphed into gatekeepers of the Firewalk, arms beckoning toward the bridge of flames.

As best I can tell, a successful **Firewalk** depends not so much on your state of mind as on how thick the soles of your feet happen to be, so I watch from a safe distance. But I seem to be the only one hanging back. Most of the UPWers make it across, whooping as they go. "I did it!" they cry when they get to the other side

of the firepit. "I did it!" They've entered a Tony Robbins state of mind. But what exactly does this consist of? It is, first and foremost, a superior mind—the antidote to Alfred Adler's inferiority complex. Tony uses the word power rather than superior (we're too sophisticated nowadays to frame our quests for self-

naked social positioning, the way we did at the dawn of the Culture of Personality), but everything about him is an exercise in superiority, from the way he occasionally addresses the audience as "girls and boys," to the stories he tells about his big houses and powerful friends, to

improvement in terms of

the way he towers literally—over the crowd. His superhuman physical size is an important part of his brand; the title of his best-selling book, Awaken the Giant Within, says it all. His intellect is impressive, too. Though he university believes educations are overrated (because they don't teach you about your emotions

and your body, he says) and has been slow to write his next book (because no one reads anymore, according to Tony), he's managed to assimilate the work of academic psychologists and package it into one hell of a show, with genuine insights the audience can make their own. Part of Tony's genius lies

in the unstated promise that he'll let the audience share his own journey from inferiority to superiority. He wasn't always so grand, he tells us. As a kid, he was a shrimp. Before he got in shape, he was overweight. And before he lived in a castle in Del Mar, California, he rented an apartment so small that he

bathtub. The implication is that we can all get over whatever's keeping us down, that even introverts can learn to walk on coals while belting out a lusty YES. The second part of the Tony state of mind is good-heartedness. He wouldn't inspire so many people if he didn't make

kept his dishes in the

them feel that he truly cared about unleashing the power within each of them. When Tony's onstage, you get the sense that he's singing, dancing, and emoting with every ounce of his energy and heart. There are moments, when the crowd is on its feet, singing and dancing in unison, that you can't help but love him, the way

many people loved Barack Obama with a kind of shocked delight when they first heard him talk about transcending red and blue. At one point, Tony talks about the different needs people have—for love, certainty, variety, and so on. He is motivated by love, he tells us, and we believe him. But there's also this:

throughout the seminar, he constantly tries to "upsell" us. He and his sales team use the UPW event, whose attendees have already paid a goodly sum, to market multi-day seminars with even more alluring names and stiffer price tags: Date with Destiny, about \$5,000; Mastery University, about \$10,000; and the Platinum Partnership, which, for a cool \$45,000 a year, buys you and eleven other Platinum Partners the right to go on exotic vacations with Tony. During the afternoon break, Tony lingers onstage with his blond and sweetly beautiful wife, Sage, gazing into her eyes, caressing her hair, murmuring into her ear.

I'm happily married, but right now Ken is in New York and I'm here in Atlanta, and even I feel lonely as I watch this spectacle. What would it be like if I were single or unhappily partnered? It would "arouse an eager want" in me, just as Dale Carnegie advised salesmen to do with their prospects so many years ago. And

sure enough, when the break is over, a lengthy video comes on the megascreen, pitching Tony's relationship-building seminar. In another brilliantly conceived segment, Tony devotes part of the seminar to explaining the financial and emotional benefits of surrounding oneself with the right

"peer group"—after which a staffer begins a sales pitch for the \$45,000 Platinum program. Those who purchase one of the twelve spots will join the "ultimate peer group," we are told—the "cream of the crop," the "elite of the elite of the elite." I can't help but wonder why none of the other UPWers seem to mind, or

even to notice, these upselling techniques. By now many of them have shopping bags at their feet, full of stuff they bought out in the lobby—DVDs, books, even eight-by-ten glossies of Tony himself, ready for framing. But the thing about Tony—and what draws people to buy his products —is that like any good

salesman, he believes in what he's pitching. He apparently sees no contradiction between wanting the best for people and wanting to live in a mansion. He persuades us that he's using his sales skills not only for personal gain but also to help as many of us as he can reach. Indeed, very thoughtful

introvert I know, a successful salesman who gives sales training seminars of his own, swears that Tony Robbins not only improved his business but also made him a better person. When he started attending events like UPW, he says, he focused on who he wanted to become, and now, when he delivers his own "Tony gives me energy," he says, "and now I can create energy for other people when I'm onstage."

seminars, he is that person.

At the onset of the Culture of Personality, we were urged to develop an extroverted personality for

frankly selfish reasons—as a way of outshining the crowd in a newly and anonymous competitive society. But nowadays we tend to think that becoming more extroverted not only makes us more successful, but also makes us better We see people. salesmanship as a way of sharing one's gifts with the

world. This is why Tony's zeal to sell to and be adulated by thousands of people at once is seen not as narcissism or hucksterism, but as leadership of the highest order. If Abraham Lincoln was the embodiment of virtue during the Culture of Character, then Tony Robbins is his counterpart

during the Culture of Personality. Indeed, when Tony mentions that he once thought of running for president of the United States, the audience erupts in loud cheers. But does it always make sense to equate leadership with hyper-extroversion? To find out, I visited Harvard Business School, an institution that prides

itself on its ability to identify and train some of the most prominent business and political leaders of our time.

The Myth of Charismatic
Leadership: Harvard
Business School and
Beyond
The first thing I notice

about the Harvard Business School campus is the way people walk. No one ambles, strolls, or lingers. They stride, full of forward momentum. It's crisp and autumnal the week I visit, and the students' bodies seem to vibrate with September electricity as they advance across campus. When they cross each other's paths

they don't merely nod they exchange animated greetings, inquiring about this one's summer with J. P. Morgan or that one's trek in the Himalayas. They behave the same way inside the social hothouse of the Spangler Center, the sumptuously decorated student center. Spangler has floor-toceiling silk curtains in seafoam green, rich leather sofas, giant Samsung highdefinition TVs silently broadcasting campus news, and soaring ceilings festooned with highwattage chandeliers. The tables and sofas are clustered mostly on the perimeter of the room, forming a brightly lit center catwalk down which the students unaware that all eyes are on them. I admire their nonchalance. The students are even

breezily parade, seemingly

better turned out than their surroundings, if such a thing is possible. No one is more than five pounds overweight or has bad skin

overweight or has bad skin or wears odd accessories. The women are a cross between Head Cheerleader

and Most Likely to Succeed. They wear fitted jeans, filmy blouses, and high-heeled peekaboo-toed shoes that make a pleasing clickety-clack Spangler's polished wood floors. Some parade like fashion models, except that they're social and beaming instead of aloof and impassive. The men are clean-cut and athletic;

they look like people who expect to be in charge, but in a friendly, Eagle Scout sort of way. I have the feeling that if you asked one of them for driving directions, he'd greet you with a can-do smile and throw himself into the task of helping you to your destination—whether or not he knew the way. I sit down next to

couple of students who are in the middle of planning a road trip—HBS students are forever coordinating pub crawls and parties, or describing an extremetravel junket they've just come back from. When they ask what brings me to campus, I say that I'm conducting interviews for a book about introversion and extroversion. I don't

tell them that a friend of mine, himself an HBS grad, once called the place the "Spiritual Capital of Extroversion." But it turns out that I don't have to tell them. "Good luck finding an introvert around here," says one. "This school is predicated on extroversion," adds the

other. "Your grades and social status depend on it. It's just the norm here. Everyone around you is speaking up and being social and going out." "Isn't there anyone on the quieter side?" I ask. They look at curiously. "I couldn't tell you," says the first student dismissively.

∼Harvard Business School is

not, by any measure, an ordinary place. Founded in 1908, just when Dale Carnegie hit the road as a traveling salesman and only three years before he

taught his first class in public speaking, the school sees itself as "educating leaders who make a

difference in the world." President George W. Bush is a graduate, as are an impressive collection of World Bank presidents, U.S. Treasury secretaries, New York City mayors, CEOs of companies like General Electric, Goldman Sachs, Procter & Gamble, and, more notoriously, Jeffrey Skilling, the villain of the Enron scandal.

Between 2004 and 2006, 20 percent of the top three executives at the Fortune 500 companies were HBS grads. HBS grads likely have influenced your life in ways you're not aware of. They have decided who should go to war and when; they have resolved the fate of Detroit's auto industry; they play leading

roles in just about every crisis to shake Wall Street, Main Street, and Pennsylvania Avenue. If you work in corporate America, there's a good chance that Harvard **Business School grads have** shaped your everyday life, too, weighing in on how much privacy you need in your workspace, how team-building many

attend per year, and whether creativity is best through achieved brainstorming or solitude. Given the scope of their influence, it's worth taking a look at who enrolls here —and what they value by the time they graduate. The student who wishes me luck in finding an introvert at HBS no doubt

sessions you need to

believes that there are none to be found. But clearly he doesn't know his first-year classmate Don Chen. I first meet Don in Spangler, where he's seated only a few couches away from the road-trip planners. He comes across as a typical HBS student, tall, with gracious prominent manners, cheekbones, a winsome

smile, and a fashionably surfer-dude choppy, haircut. He'd like to find a job in private equity when he graduates. But talk to Don for a while and you'll notice that his voice is softer than those of his classmates, his head ever so slightly cocked, his grin a little tentative. Don is "a bitter introvert," as he cheerfully puts it—bitter spends at HBS, the more convinced he becomes that he'd better change his ways.

Don likes having a lot of

because the more time he

time to himself, but that's not much of an option at HBS. His day begins early in the morning, when he meets for an hour and a

half with his "Learning

Team"—a pre-assigned

study group in which participation is mandatory (students at HBS practically go to the bathroom in teams). He spends the rest of the morning in class, where ninety students sit together in a wood-paneled, Ushaped amphitheater with stadium seating. The professor usually kicks off by directing a student to

describe the case study of the day, which is based on a real-life business scenario—say, a CEO considering who's changing her company's salary structure. The figure at the heart of the case study, in this case the CEO, is referred to as the "protagonist." If you were the protagonist, the professor asks-and soon

you will be, is the implication—what would you do? The essence of the HBS education is that leaders have to act confidently and make decisions in the face of incomplete information. The teaching method plays with an age-old question: If you don't have all the facts—and often you won't

—should you wait to act

until you've collected as much data as possible? Or, by hesitating, do you risk losing others' trust and your own momentum? The answer isn't obvious. If you speak firmly on the basis of bad information, you can lead your people into disaster. But if you exude uncertainty, then morale suffers, funders won't invest, and your

organization can collapse. The HBS teaching method implicitly comes down on the side of certainty. The CEO may not know the best way forward, but she has to act anyway. The HBS students, in turn, are expected to opine. Ideally, the student who was just cold-called has already discussed the case study with his

Learning Team, so he's ready to hold forth on the protagonist's best moves. After he finishes, the professor encourages other students to offer their own views. Half of the students' grade, and a much larger percentage of their social status, is based on whether they throw themselves into this fray. If a student talks often and forcefully, then

he's a player; if he doesn't, he's on the margins. Many of the students adapt easily to this system. But not Don. He has trouble elbowing his way into class discussions; in some classes he barely speaks at all. He prefers to contribute only when he believes he has something insightful to add, or honest-to-God disagrees

with someone. This sounds reasonable, but Don feels as if he should be more comfortable talking just so he can fill up his share of available airtime. Don's HBS friends, who tend to be thoughtful, reflective types like him, spend a lot of time talking about talking in class. How much class participation is too much? How little is too

little? When does publicly disagreeing with classmate constitute healthy debate, and when does it seem competitive and judgmental? One of Don's friends is worried because her professor sent around an e-mail saying that anyone with realworld experience on the day's case study should let him know in advance.

She's sure that the professor's announcement was an effort to limit stupid remarks like the one she made in class last week. Another worries that he's not loud enough. "I just have a naturally soft voice," he says, "so when my voice sounds normal to others, I feel like I'm shouting. I have to work on it."

The school also tries hard to turn quiet students into talkers. The professors have their own "Learning Teams," in which they egg each other on with techniques to draw out reticent students. When students fail to speak up in class, it's seen not only as their own deficit but also as their professor's. "If someone doesn't speak by

the end of the semester, it's problematic," Professor Michel Anteby told me. "It means I didn't do a good job." The school even hosts live informational sessions and web pages on how to be a good class participator. Don's friends earnestly reel off the tips they remember best.

"Speak with conviction.

Even if you believe something only fifty-five percent, say it as if you believe it a hundred percent." "If you're preparing alone for class, then you're doing it wrong. Nothing at HBS is intended to be done alone." "Don't think about the perfect answer. It's better to get out there and say

something than to never get your voice in." The school newspaper, The Harbus, also dispenses advice, featuring articles with titles like "How to Think and Speak Well—On the Spot!," "Developing Your Stage Presence," and "Arrogant or Simply Confident?" imperatives These beyond the extend

classroom. After class, most people eat lunch at the Spangler dining hall, which one grad describes as "more like high school than high school." And every day, Don wrestles with himself. Should he go back to his apartment and recharge over a quiet lunch, as he longs to do, or join his classmates? Even if he forces himself to go to

Spangler, it's not as if the social pressure will end there. As the day wears on, there will be more such dilemmas. Attend the lateafternoon happy hours? Head out for a late, rowdy evening? Students at HBS go out in big groups several nights a week, says Don. Participation isn't mandatory, but it feels as if it is to those who don't

thrive on group activities. "Socializing here is an extreme sport," one of Don's friends tells me. "People go out all the time. If you don't go out one night, the next day people will ask, 'Where were you?' I go out at night like it's my job." Don has noticed that the people who organize social events —happy hours, dinners,

drinking fests—are at the top of the social hierarchy. "The professors tell us that our classmates are the people who will go to our weddings," says Don. "If you leave HBS without having built an extensive social network, it's like you failed your HBS experience." By the time Don falls into bed at night, he's

exhausted. And sometimes he wonders why, exactly, he should have to work so hard at being outgoing. Don is Chinese-American, and recently he worked a summer job in China. He was struck by how different the social norms were, and how much more comfortable he felt. In China there was more emphasis on listening, on

asking questions rather than holding forth, on putting others' needs first. In the United States, he feels, conversation is about how effective you are at turning your experiences into stories, whereas a Chinese person might be concerned with taking up too much of the other person's time with inconsequential

information.

"That summer, I said to myself, 'Now I know why these are my people,' " he says.

But that was China, this is Cambridge,

Massachusetts. And if one judges HBS by how well it prepares students for the "real world," it seems to be doing an excellent job. After all, Don Chen will

graduate into a business culture in which verbal fluency and sociability are the two most important predictors of success, according to a Stanford Business School study. It's a world in which a middle manager at GE once told me that "people here don't even want to meet with you if you don't have a PowerPoint and a 'pitch'

for them. Even if you're making iust recommendation to your colleague, you can't sit down in someone's office and tell them what you think. You have to make a presentation, with pros and cons and a 'takeaway box.'" Unless they're selfemployed or able to telecommute, many adults

work in offices where they must take care to glide down the corridors greeting their colleagues warmly and confidently. "The business world," says a 2006 article from the Wharton Program for Working Professionals, "is filled with office environments similar to one described by an Atlanta area corporate

trainer: 'Here everyone knows that it's important to be an extrovert and troublesome to be an introvert. So people work real hard at looking like extroverts, whether that's comfortable or not. It's like making sure you drink the same single-malt scotch the CEO drinks and that you work out at the right health club.' "

Even businesses that employ many artists, designers, and other imaginative types often display a preference for extroversion. "We want to attract creative people," the director of human resources at a major media company told me. When I asked what she meant by "creative," she answered without missing a beat.

"You have to be outgoing, fun, and jazzed up to work here." Contemporary ads aimed at businesspeople would give the Williams Luxury Shaving Cream ads of yesteryear a run for

their money. One line of TV commercials that ran on CNBC, the cable business channel, featured an office worker losing out

on a plum assignment.

Boss to Ted and Alice.

Ted, I'm sending Alice
to the sales conference
because she thinks
faster on her feet than
you.

TED. (speechless) ...

Boss. So, Alice, we'll send you on Thursday—

TED. She does not!

Other ads explicitly sell their products as extroversion-enhancers. In 2000, Amtrak encouraged travelers to "DEPART FROM YOUR INHIBITIONS." Nike became a prominent brand partly on the strength of its "Just Do It" campaign. And in 1999 and 2000, a series of ads for the psychotropic drug Paxil

promised to cure the extreme shyness known as "social anxiety disorder" by offering Cinderella stories of personality transformation. One Paxil ad showed a well-dressed executive shaking hands over a business deal. "I can taste success," read the caption. Another showed what happens without the drug: a businessman alone in his office, his forehead resting dejectedly on a clenched fist. "I should have joined in more often," it read.

Yet even at Harvard Business School there are signs that something might be wrong with a leadership style that values quick and assertive answers over quiet, slow decision-making. Every autumn the incoming class participates in an elaborate roleplaying game called the Subarctic Survival "It Situation. approximately 2:30 p.m., October 5," the students are told, "and you have just crash-landed in a float plane on the east shore of Laura Lake in the subarctic region of the northern **Quebec-Newfoundland** border." The students are divided into small groups and asked to imagine that their group has salvaged fifteen items from the plane—a compass, sleeping bag, axe, and so on. Then they're told to

rank them in order of importance to the group's survival. First the students the items rank individually; then they do so as a team. Next they score those rankings against an expert's to see how well they did. Finally they watch a videotape of their team's discussions to see what went right—or wrong.

The point of the exercise is to teach group synergy. Successful synergy means a higher ranking for the team than for its individual members. The group fails when any of its members has a better ranking than the overall team. And failure is exactly what can happen when students prize assertiveness too highly.

One of Don's classmates was in a group lucky to include a young man with extensive experience in the northern backwoods. He had a lot of good ideas about how to rank the fifteen salvaged items. But his group didn't listen, because he expressed his views too quietly. "Our action plan hinged on what the most vocal

people suggested," recalls the classmate. "When the less vocal people put out ideas, those ideas were discarded. The ideas that were rejected would have kept us alive and out of trouble, but they were dismissed because of the conviction with which the more vocal people suggested their ideas. Afterwards they played us

back the videotape, and it was so embarrassing." The Subarctic Survival Situation may sound like a harmless game played inside the ivory tower, but if you think of meetings you've attended, you can probably recall a time plenty of times—when the opinion of the most dynamic or talkative person prevailed to the

detriment of all. Perhaps it was a low-stakes situation —your PTA, say, deciding whether to meet on Monday or Tuesday nights. But maybe it was important: an emergency meeting of Enron's top brass, considering whether or not to disclose questionable accounting practices. (See chapter 7 for more on Enron.) Or a

or not to send a single mother to jail. I discussed the Subarctic Survival Situation with HBS professor Quinn Mills, an expert on leadership styles. Mills is a courteous man dressed, on the day

jury deliberating whether

man dressed, on the day we met, in a pinstriped suit and yellow polka-dot tie. He has a sonorous voice, and uses it skillfully.

The HBS method "presumes that leaders should be vocal," he told me flat out, "and in my view that's part of reality." But Mills also pointed to the common phenomenon known as the "winner's curse," in which two companies bid competitively to acquire a third, until the price climbs so high that it

becomes less an economic activity than a war of egos. The winning bidders will be damned if they'll let their opponents get the prize, so they buy the target company at an inflated price. "It tends to be the assertive people who carry the day in these kinds of things," says Mills. "You see this all the

time. People ask, 'How did

this happen, how did we pay so much?' Usually it's said that they were carried away by the situation, but that's not right. Usually they're carried away by people who are assertive and domineering. The risk with our students is that they're very good at getting their way. But that doesn't mean they're going the right way."

If we assume that quiet and loud people have roughly the same number of good (and bad) ideas, then we should worry if the louder and more forceful people always carry the day. This would mean that an awful lot of bad ideas prevail while good ones get squashed. Yet studies in group dynamics suggest that this

is exactly what happens. We perceive talkers as smarter than quiet types even though grade-point averages and SAT and intelligence test scores reveal this perception to be inaccurate. In one experiment in which two strangers met over the phone, those who spoke more were considered more intelligent, better looking, and more likable. We also see talkers as leaders. The more a person talks, the more other group members direct their attention to him, which means that he becomes increasingly powerful as a meeting goes on. It also helps to speak fast; we rate quick talkers as more capable and appealing than slow

talkers. All of this would be fine if more talking were correlated with greater insight, but research suggests that there's no such link. In one study, groups of college students were asked to solve math problems together and then to rate one another's intelligence and judgment. The students who spoke

first and most often were consistently given the highest ratings, even though their suggestions (and math SAT scores) were no better than those of the less talkative students. These same students were given similarly high ratings for their creativity and analytical powers during a exercise separate

develop a business strategy for a start-up company. A well-known study out of UC Berkeley by organizational behavior professor Philip Tetlock found that television pundits—that is, people who earn their livings by holding forth confidently on the basis of limited information—make worse predictions about political

and economic trends than they would by random chance. And the very worst prognosticators tend to be the most famous and the most confident—the very ones who would be considered natural leaders in an HBS classroom. The U.S. Army has a name for a similar phenomenon: "the Bus to Abilene." "Any army

officer can tell you what that means," Colonel (Ret.) Stephen J. Gerras, a professor of behavioral sciences at the U.S. Army War College, told Yale Alumni Magazine in 2008. "It's about a family sitting on a porch in Texas on a hot summer day, and somebody says, 'I'm bored. Why don't we go to Abilene?' When they get to Abilene, somebody says, 'You know, I didn't really want to go.' And the next person says, 'I didn't want to go—I thought you wanted to go,' and so on. Whenever you're in an army group and somebody says, 'I think we're all getting on the bus to Abilene here,' that is a red flag. You can stop a conversation with it. It is a

very powerful artifact of our culture." The "Bus to Abilene" anecdote reveals our tendency to follow those who initiate action—any action. We are similarly inclined to empower dynamic speakers. One highly successful venture capitalist who is regularly pitched by young entrepreneurs told me how

frustrated he is by his colleagues' failure to distinguish between good presentation skills and true leadership ability. "I worry that there are people who are put in positions of authority because they're good talkers, but they don't have good ideas," he said. "It's so easy to confuse schmoozing ability with talent. Someone

seems like a good presenter, easy to get along with, and those traits are rewarded. Well, why is that? They're valuable traits, but we put too much of a premium on presenting and not enough on substance and critical thinking." In his book *Iconoclast*, neuroeconomist the Gregory Berns explores

what happens when companies rely too heavily on presentation skills to weed out good ideas from nonstarters. He describes a software company called **Rite-Solutions** that successfully asks employees to share ideas through an online "idea market," as a way of focusing on substance rather than style. Joe

Marino, president of Rite-Solutions, and Jim Lavoie, CEO of the company, created this system as a reaction to problems they'd experienced elsewhere. "In my old company," Lavoie told Berns, "if you had a great idea, we would tell you, 'OK, we'll make an appointment for you to address the murder

board' "—a group of people charged with vetting new ideas. Marino described what happened next:

Some technical guy comes in with a good idea. Of course questions are asked of that person that they don't know.

Like, "How big's the market? What's your marketing approach? What's your business plan for this? What's the product going to cost?" It's embarrassing. Most people can't answer those kinds of questions. The people who made it through these boards were not the people with the best ideas. They were the best presenters.

Contrary to the Harvard Business School model of vocal leadership, the ranks of effective CEOs turn out to be filled with introverts, including Charles Schwab; Bill Gates; Brenda Barnes, CEO of Sara Lee; and James Copeland, former CEO of Deloitte Touche Tohmatsu. "Among the most effective leaders I have encountered and

worked with in half a century," the management guru Peter Drucker has written, "some locked themselves into their office and others were ultragregarious. Some were quick and impulsive, while others studied the situation and took forever to come to a decision.... The one and only personality trait the

effective ones I have encountered did have in common was something they did not have: they had little or no 'charisma' and little use either for the term or what it signifies." Supporting Drucker's claim, Brigham Young University management professor Bradley Agle studied the CEOs of 128 major companies and

found that those considered charismatic by their top executives had bigger salaries but not better corporate performance. We tend to overestimate how outgoing leaders need to be. "Most leading in a corporation is done in small meetings and it's done at a distance, through written and video

communications," Professor Mills told me. "It's not done in front of big groups. You have to be able to do some of that; you can't be a leader of a corporation and walk into a room full of analysts and turn white with fear and leave. But you don't have to do a whole lot of it. I've known a lot of leaders of corporations who are

highly introspective and who really have to make themselves work to do the public stuff." Mills points to Lou Gerstner, the legendary chairman of IBM. "He went to school here," he says. "I don't know how he'd characterize himself. He has to give big speeches, and he does, and he looks calm. But my

that he's sense is dramatically more comfortable in small groups. Many of these guys are, actually. Not all of them. But an awful lot of them." Indeed, according to a famous study by the influential management theorist Jim Collins, many of the best-performing companies of the late

twentieth century were run by what he calls "Level 5 Leaders." These exceptional CEOs were known not for their flash or charisma but for extreme humility coupled with intense professional will. In his influential book Good to Great, Collins tells the story of Darwin Smith, who in his twenty years as head of Kimberly-Clark

turned it into the leading paper company in the world and generated stock returns more than four times higher than the market average. Smith was a shy and mild-mannered man who wore J.C. Penney suits and black-rimmed nerdy glasses, and spent his vacations puttering around his Wisconsin farm by

himself. Asked by a Wall Street Journal reporter to describe his management style, Smith stared back for an uncomfortably long time and answered with a single word: "Eccentric." But his soft demeanor concealed a fierce resolve. Soon after being appointed CEO, Smith made a dramatic decision to sell the mills that produced the company's core business of coated paper and invest instead in the consumerpaper-products industry, which he believed had better economics and a brighter future. Everyone said this was a huge mistake, and Wall Street downgraded Kimberly-Clark's stock. But Smith, unmoved by the crowd, did what he thought was

right. As a result, the company grew stronger and soon outpaced its rivals. Asked later about his strategy, Smith replied that he never stopped trying to become qualified for the job. Collins hadn't set out to make a point about quiet leadership. When he started his research, all he wanted to know was what

characteristics made a company outperform its competition. He selected eleven standout companies to research in depth. Initially he ignored the question of leadership altogether, because he wanted to avoid simplistic answers. But when he analyzed what the highestperforming companies had in common, the nature of

their CEOs jumped out at him. Every single one of them was led by an unassuming man like Darwin Smith. Those who worked with these leaders tended to describe them with the following words: quiet, humble, modest, reserved, shy, gracious, mildmannered, self-effacing, understated. The lesson, says Collins,

giant personalities to transform companies. We need leaders who build not their own egos but the institutions they run.

is clear. We don't need



So what do introverted leaders do differently from —and sometimes better

than—extroverts? One answer comes from the work of Wharton management professor Adam Grant, who has spent considerable time consulting with Fortune 500 executives and military leaders—from Google to the U.S. Army and Navy. When we first spoke, Grant was teaching at the Ross School of

Business at the University of Michigan, where he'd become convinced that the existing research, which showed a correlation between extroversion and leadership, didn't tell the whole story. Grant told me about a wing commander in the U.S. Air Force—one rank below general, in command of thousands of people, charged with protecting a high-security missile base—who was one of the most classically introverted people, as well as one of the finest leaders, Grant had ever met. This man lost focus when he interacted too much with people, so he carved out time for thinking and recharging. He spoke quietly, without much

variation in his vocal inflections or facial expressions. He was more interested in listening and gathering information than in asserting his opinion or dominating a conversation. He was also widely admired; when he spoke, everyone listened. This was not necessarily remarkable—if you're at the top of the military

hierarchy, people are supposed to listen to you. But in the case of this commander, says Grant, people respected not just his formal authority, but also the way he led: by supporting his employees' efforts to take the He gave initiative. subordinates input into decisions, kev implementing the ideas

that made sense, while making it clear that he had the final authority. He wasn't concerned with getting credit or even with being in charge; he simply assigned work to those who could perform it best. This meant delegating some of his most interesting, meaningful, and important tasks—work that other leaders would have kept for themselves. Why did the research not reflect the talents of people like the wing commander? Grant thought he knew what the problem was. First, when he looked closely at the existing studies on personality and leadership, he found that the between correlation extroversion

leadership was modest. Second, these studies were often based on people's perceptions of who made a good leader, as opposed to actual results. And personal opinions are often a simple reflection of cultural bias. But most intriguing to Grant was that the existing didn't research among the differentiate

various kinds of situations a leader might face. It might be that certain organizations or contexts were better suited to introverted leadership styles, he thought, and others to extroverted approaches, but the studies didn't make such distinctions. Grant had a theory about which kinds of

circumstances would call for introverted leadership. His hypothesis was that extroverted leaders enhance group when performance employees are passive, but that introverted leaders are more effective with proactive employees. To test his idea, he and two colleagues, professors

Francesca Gino of Harvard

Business School and David Hofman of the Kenan-Flagler Business School at the University of North Carolina, carried out a pair of studies of their own. In the first study, Grant and his colleagues analyzed data from one of the five biggest pizza chains in the United States. They discovered that the weekly profits of

the stores managed by extroverts were 16 percent higher than the profits of those led by introverts but only when the employees were passive types who tended to do their job without exercising Introverted initiative. leaders had the exact opposite results. When they worked with employees who actively

tried to improve work procedures, their stores outperformed those led by extroverts by more than 14 percent. In the second study, Grant's team divided 163 college students into competing teams charged with folding as many Tshirts as possible in ten minutes. Unbeknownst to the participants, each team

included two actors. In some teams, the two actors acted passively, following the leader's instructions. In other teams, one of the actors said, "I wonder if there's a more efficient way to do this." The other actor replied that he had a friend from Japan who had a faster way to fold shirts. "It might take a minute or two to teach you," the

actor told the leader, "but do we want to try it?" The results were striking. The introverted leaders were 20 percent more likely to follow the suggestion—and their teams had 24 percent better results than the teams of the extroverted leaders. When the followers were not proactive, though—when

leader instructed without suggesting their own shirtfolding methods—the teams led by extroverts outperformed those led by the introverts by 22 percent. Why did these leaders' effectiveness turn on whether their employees were passive or proactive?

Grant says it makes sense

they simply did as the

that introverts are uniquely good at leading initiative-takers. Because of their inclination to listen to others and lack of interest in dominating social situations, introverts are more likely to hear and implement suggestions. Having benefited from the talents of their followers, they are then likely to motivate them to be even

proactive. more Introverted leaders create a virtuous circle of proactivity, in other words. In the T-shirtfolding study, the team members reported perceiving the introverted leaders as more open and receptive to their ideas, which motivated them to work harder and to fold more shirts.

Extroverts, on the other hand, can be so intent on putting their own stamp on events that they risk losing others' good ideas along the way and allowing workers to lapse into passivity. "Often the leaders end up doing a lot of the talking," says Francesca Gino, "and not listening to any of the ideas that the followers are

trying to provide." But with their natural ability to inspire, extroverted leaders are better at getting results from more passive workers. This line of research is still in its infancy. But under the auspices of especially Grant—an proactive fellow himself it may grow quickly. (One of his colleagues has

described Grant as the kind of person who "can make things happen minutes twenty-eight before they're scheduled to begin.") Grant is especially excited about the implications of these findings because proactive employees who take advantage of opportunities in a fast-moving, 24/7 environment, business

without waiting for a leader to tell them what to do, are increasingly vital to organizational success. To understand how to maximize these employees' contributions is an important tool for all leaders. It's also important for companies to groom listeners as well as talkers for leadership roles. The popular press, says Grant, is full of suggestions that introverted leaders practice their public speaking skills and smile more. But Grant's research suggests that in at least one important regard encouraging employees to take initiative—introverted leaders would do well to go on doing what they do naturally. Extroverted leaders, on the other hand,

"may wish to adopt a more reserved, quiet style," Grant writes. They may want to learn to sit down

want to learn to sit down so that others might stand up.
Which is just what a

Which is just what a woman named Rosa Parks did naturally.

For years before the day in December 1955 when Rosa Parks refused to give up her seat on a Montgomery bus, she worked behind the scenes for the NAACP, even receiving training in nonviolent resistance. Many things had inspired her political commitment. The time the Ku Klux Klan marched in front of her childhood house. The time

her brother, a private in the U.S. Army who'd saved the lives of white soldiers, came home from World War II only to be spat upon. The time a black eighteen-year-old delivery boy was framed for rape and sent to the electric chair. Parks organized NAACP records, kept track of membership payments, read to little kids in her

neighborhood. She was diligent and honorable, but no one thought of her as a leader. Parks, it seemed, was more of a foot soldier. Not many people know that twelve years before her showdown with the Montgomery bus driver, she'd had another encounter with the same man, possibly on the very

same bus. It was a November afternoon in 1943, and Parks had entered through the front door of the bus because the back was too crowded. The driver, a well-known bigot named James Blake, told her to use the rear and started to push her off the bus. Parks asked him not to touch her. She would leave on her own,

she said quietly. "Get off my bus," Blake sputtered in response.

Parks complied, but not before deliberately dropping her purse on her way out and sitting on a

"white" seat as she picked it up. "Intuitively, she had engaged in an act of passive resistance, a precept named by Leo Tolstoy and embraced by

Mahatma Gandhi," writes the historian Douglas Brinkley in a wonderful biography of Parks. It was more than a decade before King popularized the idea of nonviolence and long before Parks's own training in civil disobedience, but, Brinkley writes, "such principles were a perfect match for her own personality."

Parks was so disgusted by Blake that she refused to ride his bus for the next twelve years. On the day she finally did, the day that turned her into the "Mother of the Civil Rights Movement," she got back on that bus, according to Brinkley, only out of sheer absentmindedness. Parks's actions that day were brave and singular,

but it was in the legal fallout that her quiet strength truly shone. Local civil rights leaders sought her out as a test case to challenge the city's bus laws, pressing her to file a lawsuit. This was no small decision. Parks had a sickly mother who depended on her; to sue would mean losing her job and her husband's. It

would mean running the very real risk of being lynched from "the tallest telephone pole in town," as her husband and mother put it. "Rosa, the white folks will kill you," pleaded her husband. "It was one thing to be arrested for an isolated bus incident," writes Brinkley; "it was quite another, as historian Taylor Branch

would put it, to 'reenter that forbidden zone by choice.' " But because of her nature, Parks was the perfect plaintiff. Not only because she was a devout Christian, not only because she was an upstanding citizen, but also because she was gentle. "They've messed with the wrong

one now!" the boycotters

would declare as they traipsed miles to work and school. The phrase became a rallying cry. Its power lay in how paradoxical it was. Usually such a phrase implies that you've messed with a local heavy, with some bullying giant. But it was Parks's quiet strength made her that unassailable. "The slogan served as a reminder that

the woman who had inspired the boycott was the sort of soft-spoken martyr God would not abandon," writes Brinkley. Parks took her time coming to a decision, but ultimately agreed to sue. She also lent her presence at a rally held on the evening of her trial, the night when a young Martin Luther King Jr., the

head of the brand-new Montgomery Improvement Association, roused all of black Montgomery's community to boycott the buses. "Since it had to happen," King told the crowd, "I'm happy it happened to a person like Rosa Parks, for nobody can doubt the boundless outreach of her integrity. Nobody can doubt the height of her character. Mrs. Parks is unassuming, and yet there is integrity and character there." Later that year Parks agreed to go on a fundraising speaking tour with King and other civil rights leaders. She suffered insomnia, ulcers, and homesickness along the way. She met her idol, Eleanor Roosevelt, who wrote of their encounter in her newspaper column: "She is a very quiet, gentle person and it is difficult to imagine how she ever could take such a positive and independent stand." When the boycott finally ended, over a year later, the buses integrated by decree of the Supreme Court, Parks was overlooked by the press.

The New York Times ran two front-page stories that celebrated King but didn't mention her. Other papers photographed the boycott leaders sitting in front of buses, but Parks was not invited to sit for these pictures. She didn't mind. On the day the buses were integrated, she preferred to stay home and take care of her mother.

Parks's story is a vivid reminder that we have

reminder that we have been graced with limelight-avoiding leaders throughout history. Moses, for example, was not, according to some interpretations of his story,

according to some interpretations of his story, the brash, talkative type who would organize road trips and hold forth in a

classroom at Harvard Business School. On the by today's contrary, standards he was dreadfully timid. He spoke with a stutter and himself considered inarticulate. The book of Numbers describes him as "very meek, above all the men which were upon the face of the earth." When God first appeared

to him in the form of a burning bush, Moses was employed as a shepherd by his father-in-law; he wasn't even ambitious enough to own his own sheep. And when God revealed to Moses his role as liberator of the Jews, did Moses leap at the opportunity? Send someone else to do it, he said. "Who am I, that I should go to Pharaoh?" he pleaded. "I have never been eloquent. I am slow of speech and tongue." It was only when God paired him up with his extroverted brother Aaron that Moses agreed to take on the assignment. Moses would be the speechwriter, the behind-the-scenes guy, the Cyrano de Bergerac;

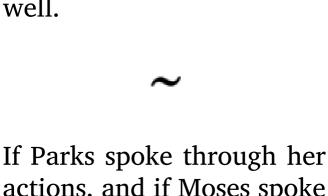
Aaron would be the public

face of the operation. "It

will be as if he were your mouth," said God, "and as if you were God to him." Complemented by Aaron, Moses led the Jews from Egypt, provided for them in the desert for the next forty years, and brought the Ten Commandments down from Mount Sinai. And he did all this using strengths classically that are

associated with introversion: climbing a mountain in search of wisdom and writing down carefully, on two stone tablets, everything he learned there. We tend to write Moses' true personality out of the Exodus story. (Cecil B. DeMille's classic, The Ten Commandments, portrays him as a swashbuckling figure who does all the talking, with no help from Aaron.) We don't ask why God chose as his prophet a stutterer with a public speaking phobia. But we should. The book of Exodus is short on explication, but its stories suggest that introversion plays yin to the yang of extroversion; that the medium is not always the

message; and that people followed Moses because his words were thoughtful, not because he spoke them well.



actions, and if Moses spoke

through his brother Aaron, today another type of using the Internet.
In his book *The Tipping Point*, Malcolm Gladwell explores the influence of "Connectors"—people who

introverted leader speaks

have a "special gift for bringing the world together" and "an instinctive and natural gift

for making social connections." He describes a "classic Connector"

named Roger Horchow, a charming and successful businessman and backer of Broadway hits such as Les Misérables, who "collects people the same way others collect stamps." "If you sat next to Roger Horchow on a plane ride across the Atlantic," writes Gladwell, "he would start talking as the plane taxied to the runway, you would

be laughing by the time the seatbelt sign was turned off, and when you landed at the other end you'd wonder where the time went." We generally think of Connectors in just the way that Gladwell describes Horchow: chatty, outgoing, spellbinding even. But consider for a moment a modest, cerebral

named Craig man Newmark. Short, balding, bespectacled, and Newmark was a systems engineer for seventeen years at IBM. Before that, he had consuming interests in dinosaurs, chess, and physics. If you sat next to him on a plane, he'd probably keep his nose buried in a book. Yet Newmark also

happens to be the founder and majority owner of Craigslist, the eponymous website that—well connects people with each other. As of May 28, 2011, Craigslist was the seventhlargest English language website in the world. Its users in over 700 cities in seventy countries find jobs, dates, and even kidney donors

Newmark's site. They join singing groups. They read one another's haikus. They confess their affairs. Newmark describes the site not as a business but as a public commons. "Connecting people to fix the world over time is the deepest spiritual value you can have," Newmark has said. After Hurricane Katrina, Craigslist helped

stranded families find new homes. During the New York City transit strike of 2005, Craigslist was the go-to place for ride-share listings. "Yet another crisis, and Craigslist the commands community," wrote one blogger about Craigslist's role in the strike. "How come Craig organically can touch lives on so many

levels—and personal Craig's users can touch each other's lives on so many levels?" Here's one answer: social media has made new forms of leadership possible for scores of people who don't fit the Harvard Business School mold. On August 10, 2008, Guy Kawasaki, the best-

selling author, speaker, serial entrepreneur, and Silicon Valley legend, tweeted, "You may find this hard to believe, but I am an introvert. I have a 'role' to play, but I fundamentally am a loner." Kawasaki's tweet set the world of social media buzzing. "At the time," wrote one blogger, "Guy's avatar featured him

wearing a pink boa from a large party he threw at his house. Guy Kawasaki an introvert? Does not compute." On August 15, 2008, Pete Cashmore, the founder of Mashable, the online guide to social media, weighed in. "Wouldn't it be a great irony," he asked, "if the leading proponents of the

'it's about people' mantra weren't so enamored with meeting large groups of people in real life? Perhaps social media affords us the control we lack in real life socializing: the screen as a barrier between us and the world." Then Cashmore outed himself. "Throw me firmly in the 'introverts' camp with Guy," he posted.

Studies have shown that, indeed, introverts are more likely than extroverts to express intimate facts about themselves online that their family and friends would be surprised to read, to say that they can express the "real me" online, and to spend more time in certain kinds of online discussions. They welcome the chance to

communicate digitally. The same person who would never raise his hand in a lecture hall of two hundred people might blog to two thousand, or two million, without thinking twice. The same person who finds it difficult to introduce himself to strangers might establish a presence online and then

extend these relationships

into the real world.

~

happened if the Subarctic Survival Situation had been conducted online,

with the benefit of all the

What would have

voices in the room—the Rosa Parkses and the Craig Newmarks and the Darwin

Smiths? What if it had been a group of proactive castaways led by an introvert with a gift for calmly encouraging them to contribute? What if there had been an introvert and an extrovert sharing the helm, like Rosa Parks and Martin Luther King Jr.? Might they have reached the right result? It's impossible to say. No

one has ever run these studies, as far as I know which is a shame. It's understandable that the HBS model of leadership places such a high premium on confidence and quick decisionmaking. If assertive people tend to get their way, then it's a useful skill for leaders whose work depends on influencing

others. Decisiveness inspires confidence, while wavering (or even appearing to waver) can threaten morale. But one can take these truths too far; in some circumstances quiet, modest styles of leadership may be equally or more effective. As I left the HBS campus, I stopped by a display of notable Wall Street Journal cartoons in the Baker Library lobby. One showed a haggard executive looking at a chart of steeply falling profits. "It's all because of Fradkin," the executive tells his colleague. "He has terrible business sense but great leadership skills, and everyone is following him down the road to ruin."

Introverts? An Evangelical's Dilemma

Does God Love

If Harvard Business School is an East Coast enclave for the global elite, my next stop was an institution that's much the opposite.

It sits on a sprawling, 120acre campus in the former desert and current exurb of Lake Forest, California.

Unlike Harvard Business School, it admits anyone who wants to join. Families stroll the palmtree-lined plazas and walkways in good-natured clumps. Children frolic in man-made streams and waterfalls. Staff wave amiably as they cruise by carts. Wear in golf whatever you want: sneakers and flip-flops are

perfectly fine. This campus is presided over not by nattily attired professors wielding words like protagonist and case method, but by a benign Santa Claus-like figure in a Hawaiian shirt and sandy-haired goatee. With an average weekly attendance of 22,000 and Saddleback counting, Church is one of the

and most largest influential evangelical churches in the nation. Its leader is Rick Warren, author of The Purpose Driven Life, one of the bestselling books of all time, and the man who delivered the invocation at Obama's President inauguration. Saddleback doesn't cater to worldfamous leaders the way less mighty a role in Evangelical society. leaders have the ear of dominate presidents; thousands of hours of TV time; and multimillion-dollar businesses, with the most prominent boasting their production own recording companies, studios, and distribution

HBS does, but it plays no

deals with media giants like Time Warner. Saddleback also has one more thing in common with Harvard Business School: its debt to—and of—the propagation Culture of Personality. It's a Sunday morning in August 2006, and I'm standing at the center of a dense hub of sidewalks on Saddleback's campus. I

consult a signpost, the kind you see at Walt Disney World, with cheerful arrows pointing every which way: Worship Center, Plaza Room, Terrace Café, Beach Café. A nearby poster features a beaming young man in bright red polo shirt and sneakers: "Looking for a new direction? Give traffic ministry a try!"

I'm searching for the open-air bookstore, where I'll be meeting Adam McHugh, a local evangelical pastor with whom I've been corresponding. McHugh is an avowed introvert, and we've been having a crossconversation country about what it feels like to be a quiet and cerebral type in the evangelical movement—especially as a leader. Like HBS, evangelical churches often make extroversion a prerequisite for leadership, sometimes explicitly. "The priest must be ... an extrovert who enthusiastically engages members and newcomers, a team player," reads an ad for a position as associate rector of a 1,400-

member parish. A senior priest at another church confesses online that he has advised parishes recruiting a new rector to ask what his or her Myers-Briggs score is. "If the first letter isn't an 'E' [for extrovert]," he tells them, "think twice ... I'm sure our Lord was [an extrovert]." McHugh doesn't fit this

description. He discovered his introversion as a junior at Claremont McKenna College, when he realized he was getting up early in the morning just to savor time alone with a steaming cup of coffee. He enjoyed parties, but found himself leaving early. "Other people would get louder and louder, and I would get quieter and quieter,"

he told me. He took a Myers-Briggs personality test and found out that there was a word, introvert, that described the type of person who likes to spend time as he did. At first McHugh felt good about carving out more time for himself. But then he got active in evangelicalism and began to feel guilty about all that solitude. He even believed that God disapproved of his choices and, by extension, of him. "The evangelical culture ties together faithfulness extroversion," with McHugh explained. "The emphasis is on community, on participating in more and more programs and events, on meeting more and more people. It's a

constant tension for many introverts that they're not living that out. And in a religious world, there's more at stake when you feel that tension. It doesn't feel like 'I'm not doing as well as I'd like.' It feels like 'God isn't pleased with me.' " From outside the evangelical community, this seems an astonishing

confession. Since when is solitude one of the Seven Deadly Sins? But to a evangelical, fellow McHugh's sense of spiritual failure would make perfect sense. Contemporary evangelicalism says that every person you fail to meet and proselytize is another soul you might have saved. It also

emphasizes building community among confirmed believers, with churches many encouraging (or even requiring) their members to join extracurricular groups organized around every conceivable subject —cooking, real-estate investing, skateboarding. So every social event McHugh left early, every

every group he failed to join, meant wasted chances to connect with others. But, ironically, if there was one thing McHugh knew, it was that he wasn't alone. He looked around and saw a vast number of people in the evangelical community who felt just as

conflicted as he did. He

morning he spent alone,

became ordained as a Presbyterian minister and worked with a team of student leaders at Claremont College, many of whom were introverts. The team became a kind of laboratory for experimenting with introverted forms of leadership and ministry. They focused on one-onone and small group

large groups, and McHugh helped the students find rhythms in their lives that allowed them to claim the solitude they needed and enjoyed, and to have social energy left over for leading others. He urged them to find the courage to speak up and take risks in meeting new people. A few years later, when

interactions rather than on

evangelical bloggers started posting about their written experiences, evidence of the schism between introverts and extroverts within the evangelical church finally emerged. One blogger wrote about his "cry from the heart wondering how to fit in as an introvert in a church that prides itself on

social media exploded and

extroverted evangelism. There are probably quite a few [of you] out there who are put on guilt trips each time [you] get a personal evangelism push at church. There's a place in God's kingdom for sensitive, reflective types. It's not easy to claim, but it's there." Another wrote about his simple desire "to serve the Lord but not

serve on a parish committee. In a universal church, there should be room for the ungregarious." McHugh added his own voice to this chorus, first with a blog calling for greater emphasis on religious practices of solitude and contemplation, and later a book called

Introverts in the Church: Finding Our Place in an Extroverted Culture. He argues that evangelism means listening as well as talking, that evangelical churches should incorporate silence and mystery into religious worship, and that they should make room for introverted leaders who might be able to

demonstrate a quieter path to God. After all, hasn't prayer always been about contemplation as well as community? Religious leaders from Jesus to Buddha, as well as the saints, lesser-known monks, shamans, and prophets, have always gone off alone to experience the revelations they later shared with the

rest of us.



When finally I find my way to the bookstore, McHugh is waiting with a serene expression on his

face. He's in his early thirties, tall and broadshouldered, dressed in jeans, a black polo shirt,

and black flip-flops. his short brown hair, reddish goatee, and sideburns, McHugh looks like a typical Gen Xer, but he speaks in the soothing, considered tones of a college professor. McHugh doesn't preach or worship at Saddleback, but we've chosen to meet here because it's such an important symbol of

evangelical culture. Since services are just about to start, there's little time to chat. Saddleback offers six different "worship venues," each housed in its own building or tent and set to its own beat: Worship Center, Traditional, OverDrive Rock, Gospel, Family, and something called Ohana Island Style Worship. We

head to the main Worship Center, where Pastor Warren is about to preach. With its sky-high ceiling crisscrossed with klieg lights, the auditorium looks like a rock concert venue, save for the unobtrusive wooden cross hanging on the side of the room. A man named Skip is up the warming

congregation with a song. The lyrics are broadcast on five Jumbotron screens, interspersed with photos of shimmering lakes and Caribbean sunsets. Mikedup tech guys sit on a thronelike dais at the center of the room, training their video cameras on the audience. The cameras linger on a teenage girl—long, silky

blond hair, electric smile, and shining blue eyes who's singing her heart out. I can't help but think of Tony Robbins's "Unleash the Power Within" seminar. Did Tony base his program on megachurches like Saddleback, I wonder, or is it the other way around? "Good morning, everybody!" beams Skip,

then urges us to greet those seated near us. Most people oblige with wide smiles and glad hands, including McHugh, but there's a hint of strain beneath his smile. Pastor Warren takes the stage. He's wearing a short-sleeved polo shirt and his famous goatee. Today's sermon will be based on the book of

Jeremiah, he tells us. "It would be foolish to start a business without business plan," Warren says, "but most people have no life plan. If you're a business leader, you need to read the book of Jeremiah over and over, because he was a genius CEO." There are no Bibles at our seats, only pencils and note cards, with the

key points from the sermon preprinted, and blanks to fill in as Warren goes along. Like Tony Robbins, Pastor Warren seems truly well-meaning; he's created this vast Saddleback ecosystem out of nothing, and he's done good works around the world. But at the same time I can see how hard it must be, worship and Jumbotron prayer, for Saddleback's introverts to feel good about themselves. As the service wears on, I feel the same sense of alienation that McHugh has described. Events like this don't give me the sense of oneness others seem to enjoy; it's always been private occasions that

inside this world of Luau

make me feel connected to the joys and sorrows of the world, often in the form of communion with writers and musicians I'll never meet in person. Proust called these moments of unity between writer and reader "that fruitful miracle of a communication in the midst of solitude." His use of religious language was

surely no accident. McHugh, as if reading my mind, turns to me when the service is over. "Everything in the service involved communication," he says with gentle exasperation. "Greeting people, the lengthy sermon, the singing. There was no emphasis on quiet, liturgy, ritual, things that give you space for

contemplation." McHugh's discomfort is all the more poignant because he genuinely admires Saddleback and all that it stands for. "Saddleback is doing amazing things around the world and in its own community," he says. "It's a friendly, hospitable place that genuinely seeks to connect with newcomers.

That's an impressive mission given how colossal the church is, and how easy it would be for people to remain completely disconnected from others. Greeters, the informal meeting atmosphere, people around you—these are all motivated by good desires." Yet McHugh finds the practices

smile-andmandatory good-morning at the start of the service to be painful —and though he personally is willing to endure it, even sees the value in it, he worries about how many other introverts will not. "It sets up an extroverted atmosphere that can be difficult for introverts like me," he

explains. "Sometimes I feel like I'm going through the motions. The outward enthusiasm and passion that seems to be part and parcel of Saddleback's culture doesn't feel natural. Not that introverts can't be eager and enthusiastic, but we're not as overtly expressive as extroverts. At a place like Saddleback, you can start

questioning your own experience of God. Is it really as strong as that of other people who look the part of the devout believer?" Evangelicalism has taken the Extrovert Ideal to its logical extreme, McHugh is telling us. If you don't love Jesus out loud, then it must not be real love. It's not enough

to forge your own spiritual connection to the divine; it must be displayed publicly. Is it any wonder that introverts like Pastor McHugh start to question their own hearts? It's brave of McHugh, whose spiritual and calling professional depends on his connection to God, to confess his self-

doubt. He does so because

the inner conflict he has struggled with, and because he loves evangelicalism and wants it to grow by learning from the introverts in its midst. But he knows that meaningful change will come slowly to a religious culture that sees extroversion not only as a personality trait but also as

he wants to spare others

an indicator of virtue. Righteous behavior is not so much the good we do behind closed doors when no one is there to praise us; it is what we "put out into the world." Just as Tony Robbins's aggressive upselling is OK with his fans because spreading helpful ideas is part of being a good person, and just as HBS expects its

students to be talkers because this is seen as a prerequisite of leadership, so have many evangelicals come to associate godliness with sociability.

3 WHEN COLLABORATION KILLS CREATIVITY

The Rise of the New Groupthink and the Power of Working Alone

I am a horse for a single harness, not cut out for tandem or teamwork ... for well I know that in order to attain any definite goal, it is

imperative that one person do the thinking and the commanding.

—ALBERT EINSTEIN

drizzly evening in Menlo Park, California. Thirty unprepossessing-looking engineers gather in the garage of an unemployed colleague named Gordon

March 5, 1975. A cold and

French. They call themselves the Homebrew Computer Club, and this is their first meeting. Their mission: to make computers accessible to regular people—no small task at a time when most computers are temperamental SUV-sized machines that only universities corporations can afford.

The garage is drafty, but the engineers leave the doors open to the damp night air so people can wander inside. In walks an uncertain young man of twenty-four, a calculator designer for Hewlett-Packard. Serious and bespectacled, he has shoulder-length hair and a brown beard. He takes a chair and listens quietly as

the others marvel over a build-it-yourself new computer called the Altair 8800, which recently made the cover of Popular Electronics. The Altair isn't a true personal computer; it's hard to use, and appeals only to the type of person who shows up at a garage on a rainy Wednesday night to talk about microchips. But it's

an important first step.

The young man, whose name is Stephen Wozniak, is thrilled to hear of the Altair. He's been obsessed with electronics since the age of three. When he was

eleven he came across a magazine article about the first computer, the ENIAC, or Electronic Numerical Integrator and Computer, and ever since, his dream

has been to build a machine so small and easy to use that you could keep it at home. And now, inside this garage, here is news that The Dream—he thinks of it with capital letters—might one day materialize. As he'll later recall in his memoir, iWoz, where most of this story appears, Wozniak is also excited to be surrounded by kindred spirits. To the Homebrew crowd, computers are a tool for social justice, and he feels the same way. Not that he talks to anyone at this first meeting—he's way too shy for that. But that night he goes home and sketches his first design for a personal computer, with a keyboard and a screen just like the

kind we use today. Three months later he builds a prototype of that machine. And ten months after that, he and Steve Jobs cofound Apple Computer. Today Steve Wozniak is a revered figure in Silicon Valley—there's a street in San Jose, California, named Woz's Way-and is sometimes called the nerd soul of Apple. He has learned over time to open up and speak publicly, even appearing as a contestant on Dancing with the Stars, where he displayed an endearing mixture of stiffness and good cheer. I once saw Wozniak speak at a bookstore in New York City. A standing-room-only crowd showed up bearing their 1970s Apple

operating manuals, in honor of all that he had done for them.

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But the credit is not Wozniak's alone; it also belongs to Homebrew.

belongs to Homebrew. Wozniak identifies that first meeting as the beginning of the computer

revolution and one of the most important nights of his life. So if you wanted to replicate the conditions that made Woz so productive, you might point to Homebrew, with its collection of likeminded souls. You might decide that Wozniak's achievement was a shining of the example collaborative approach to

creativity. You might conclude that people who hope to be innovative should work in highly social workplaces. And you might be wrong. Consider what Wozniak did right after the meeting in Menlo Park. Did he huddle with fellow club members to work on computer design? No.

(Although he did keep attending the meetings, every other Wednesday.) Did he seek out a big, open office space full of cheerful pandemonium in which ideas would crosspollinate? No. When you read his account of his work process on that first PC, the most striking thing is that he was always by himself.

Wozniak did most of the work inside his cubicle at Hewlett-Packard. He'd arrive around 6:30 a.m. and, alone in the early morning, read engineering magazines, study chip manuals, and prepare designs in his head. After work, he'd go home, make a quick spaghetti or TV dinner, then drive back to the office and work late

into the night. He describes this period quiet midnights and solitary sunrises as "the biggest high ever." His efforts paid off on the night of June 29, 1975, at around 10:00 p.m., when Woz finished building a prototype of his machine. He hit a few keys on the keyboard—and letters appeared on the screen in

sort of breakthrough moment that most of us can only dream of. And he was alone when it happened.

Intentionally so. In his

front of him. It was the

Intentionally so. In his memoir, he offers this advice to kids who aspire to great creativity:

Most inventors and engineers I've met are

like me—they're shy and they live in their heads. They're almost like artists. In fact, the very best of them *are* artists. And artists work best alone where they can control an invention's design without a lot of other people designing it for marketing or some other committee. I don't believe anything really

revolutionary has been invented by committee. If you're that rare engineer who's an inventor and also an artist, I'm going to give you some advice that might be hard to take. That advice is: Work alone. You're going to be best able to design revolutionary products and features if you're working on your own. Not on a committee. Not on a team.



From 1956 to 1962, an era best remembered for its ethos of stultifying conformity, the Institute of Personality Assessment

and Research at the

Berkeley, conducted series of studies on the nature of creativity. The researchers sought to identify the most creative spectacularly people and then figure out what made them different from everybody else. They assembled a list of architects, mathematicians, scientists,

University of California,

engineers, and writers who made major had contributions to their fields, and invited them to Berkeley for a weekend of personality tests, problemsolving experiments, and probing questions. Then the researchers did something similar with members of the same professions whose contributions were

decidedly less groundbreaking. One of the most interesting findings, echoed by later studies, was that the more creative people tended to be socially poised introverts. They were interpersonally skilled but "not of an especially sociable or participative temperament." They

described themselves as independent and individualistic. As teens, many had been shy and solitary. These findings don't mean that introverts are always more creative than extroverts, but they do suggest that in a group of people who have been creative extremely throughout their lifetimes,

you're likely to find a lot of introverts. Why should this be true? Do quiet personalities come with some ineffable quality that fuels creativity? Perhaps, as we'll see in chapter 6. But there's a less obvious yet surprisingly powerful explanation for creative introverts' advantage—an explanation that everyone can learn

from: introverts prefer to work independently, and solitude can be a catalyst to innovation. As the influential psychologist Hans Eysenck once observed, introversion "concentrates the mind on the tasks in hand, and prevents the dissipation of energy on social and sexual matters unrelated to work." In other words, if

you're in the backyard sitting under a tree while everyone else is clinking glasses on the patio, you're more likely to have an apple fall on your head. (Newton was one of the world's great introverts. William Wordsworth described him as "A mind forever / Voyaging through strange seas of Thought alone.")

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If this is true—if solitude is an important key to creativity—then we might all want to develop a taste for it. We'd want to teach our kids to work independently. We'd want to give employees plenty of privacy and autonomy. Yet increasingly we do just the opposite.

We like to believe that we live in a grand age of creative individualism. We look back at the midcentury era in which the Berkeley researchers conducted their creativity studies, and feel superior. Unlike the starched-shirted conformists of the 1950s, we hang posters of Einstein on our walls, his tongue stuck out iconoclastically.

We consume indie music and films, and generate our own online content. We "think different" (even if we got the idea from Apple Computer's famous ad campaign). But the way we organize many of our most important institutions our schools and our workplaces—tells a very different story. It's the story of a contemporary phenomenon that I call the Groupthink—a New phenomenon that has the potential to stifle productivity at work and to deprive schoolchildren of the skills they'll need to achieve excellence in an increasingly competitive world. The New Groupthink elevates teamwork above

all else. It insists that creativity and intellectual achievement come from a gregarious place. It has many powerful advocates. "Innovation—the heart of the knowledge economy is fundamentally social," writes the prominent Malcolm journalist Gladwell. "None of us is as smart as all of us," declares the organizational

consultant Warren Bennis, in his book *Organizing* Genius, whose opening chapter heralds the rise of the "Great Group" and "The End of the Great Man." "Many jobs that we regard as the province of a single mind actually require a crowd," muses Clay Shirky in his influential book Here Comes Everybody. Even

"Michelangelo had assistants paint part of the Sistine Chapel ceiling." (Never mind that the assistants were likely while interchangeable, Michelangelo was not.) The New Groupthink is embraced by many corporations, which increasingly organize workforces into teams, a gained practice that

popularity in the early 1990s. By 2000 an estimated half of all U.S. organizations used teams, and today virtually all of them do, according to the management professor Frederick Morgeson. A recent survey found that 91 percent of high-level managers believe that teams are the key to success. The consultant

Stephen Harvill told me that of the thirty major organizations he worked with in 2010, including J.C. Penney, Wells Fargo, Dell Computers, and Prudential, he couldn't think of a single one that didn't use teams. Some of these teams are virtual, working together from remote locations, but demand others

tremendous amount of face-to-face interaction, in the form of team-building exercises and retreats, shared online calendars that announce employees' availability for meetings, and physical workplaces that afford little privacy. Today's employees inhabit open office plans, in which no one has a room of his or her own, the only walls are the ones holding up the building, and senior executives operate from the center of the boundary-less floor along with everyone else. In fact, over 70 percent of today's employees work in an open plan; companies using them include Procter & Gamble, Ernst & Young, GlaxoSmithKline, Alcoa, and H.J. Heinz.

The amount of space per employee shrank from 500 square feet in the 1970s to 200 square feet in 2010, according to Peter Miscovich, a managing director at the real estate brokerage firm Jones Lang LaSalle. "There has been a shift from 'I' to 'we' work," Steelcase CEO James Hackett told Fast Company

magazine

in 2005.

"Employees used to work alone in 'I' settings. Today, working in teams and groups is highly valued. We are designing products to facilitate that." Rival manufacturer office Herman Miller, Inc., has not only introduced new furniture designed to accommodate "the move toward collaboration and teaming in the workplace" but also moved its own top executives from private offices to an open space. In 2006, the Ross School of Business at the University of Michigan demolished a classroom building in part because it wasn't set up for maximum group interaction. The New Groupthink is also practiced in our schools.

increasingly popular method of instruction called "cooperative" "small group" learning. In many elementary schools, the traditional rows of seats facing the teacher have been replaced with "pods" of four or more desks pushed together to facilitate countless group learning activities. Even subjects like math and

would seem to depend on solo flights of thought, are often taught as group projects. In one fourthgrade classroom I visited, a big sign announced the "Rules for Group Work," including, you can't ask a TEACHER FOR HELP UNLESS EVERYONE IN YOUR GROUP HAS THE SAME QUESTION.

creative writing, which

According to a 2002 nationwide survey of more than 1,200 fourth- and eighth-grade teachers, 55 percent of fourth-grade teachers prefer cooperative learning, compared to only 26 percent who favor teacher-directed formats. Only 35 percent of fourthgrade and 29 percent of eighth-grade teachers spend more than half their

classroom time on traditional instruction, while 42 percent of fourthgrade and 41 percent of teachers eighth-grade spend at least a quarter of class time on group work. Among younger teachers, small-group learning is even more popular, suggesting that the trend will continue for some time to come.

The cooperative approach has politically roots—the progressive theory is that students take ownership of their education when they learn from one another—but according to elementary school teachers interviewed at public and private schools in New York, Michigan, and Georgia, it also trains kids

to express themselves in the team culture corporate America. "This style of teaching reflects the business community," one fifth-grade teacher in a Manhattan public school told me, "where people's respect for others is based on their verbal abilities, not their originality or insight. You have to be someone who speaks well

and calls attention to yourself. It's an elitism based on something other than merit." "Today the world of business works in groups, so now the kids do it in school," a third-grade teacher in Decatur, Georgia, explained. "Cooperative learning enables skills in working as teams—skills that are in dire demand in the

workplace," writes the educational consultant Bruce Williams. Williams also identifies leadership training as a primary benefit of learning. cooperative Indeed, the teachers I met seemed to pay close attention to their students' managerial skills. In one public school I visited in downtown Atlanta, a third-

grade teacher pointed out a quiet student who likes to "do his own thing." "But we put him in charge of safety patrol one morning, so he got the chance to be a leader, too," she assured me. This teacher was kind and well-intentioned, but I wonder whether students like the young safety officer would be better off if we appreciated that not everyone aspires to be a leader in the conventional sense of the word—that some people wish to fit harmoniously into the group, and others to be independent of it. Often the most highly creative people are in the latter category. As Janet Farrall and Leonie Kronborg write in Leadership Development

for the Gifted and Talented:

While extroverts tend to attain leadership in public domains, introverts tend to attain leadership in theoretical and aesthetic fields. Outstanding introverted leaders, such as Charles Darwin, Marie Curie, Patrick White and Arthur Boyd, who have

created either new fields of thought or rearranged existing knowledge, have spent long periods of their lives in solitude. Hence leadership does not only apply in social situations, but also occurs in more solitary situations such as developing new techniques in the arts, creating new

philosophies, writing profound books and making scientific breakthroughs.

The New Groupthink did not arise at one precise Cooperative moment. learning, corporate teamwork, and open office

plans emerged at different times and for different reasons. But the mighty

force that pulled these trends together was the rise of the World Wide Web, which lent both cool and gravitas to the idea of collaboration. On the wondrous Internet. creations were produced via shared brainpower: open-source Linux, the operating system; Wikipedia, the online encyclopedia;

MoveOn.org, the political grassroots These movement. productions, collective exponentially greater than the sum of their parts, were so awe-inspiring that we came to revere the hive mind, the wisdom crowds, the miracle of crowdsourcing. Collaboration became sacred concept—the key

multiplier for success. But then we took things a step further than the facts called for. We came to value transparency and to knock down walls-not only online but also in person. We failed to realize that what makes for the sense asynchronous, relatively anonymous interactions of

the Internet might not

face-to-face, politically charged, acoustically noisy confines of an open-plan office. Instead of distinguishing between online and in-person interaction, we used the lessons of one to inform our thinking about the other. That's why, when people talk about aspects of the

work as well inside the

New Groupthink such as open office plans, they tend to invoke the Internet. "Employees are putting their whole lives up on Facebook and Twitter and everywhere else anyway. There's no reason they should hide behind a cubicle wall," Dan Lafontaine, CFO of the social marketing firm Mr. Youth, told NPR. Another

management consultant told me something similar: "An office wall is exactly what it sounds like—a barrier. The fresher your methodologies of thinking, the less you want boundaries. The companies who use open office plans are new companies, just like the World Wide Web, which is still a teenager." The Internet's role in

promoting face-to-face group work is especially ironic because the early Web was a medium that enabled bands of often introverted individualists —people much like the solitude-craving thought leaders Farrall and Kronborg describe—to come together to subvert and transcend the usual ways of problem-solving. A earliest computer enthusiasts were introverts, according to a study of 1,229 computer professionals working in the U.S., the U.K., and Australia between 1982 and 1984. "It's a truism in tech that open source attracts introverts," says Dave W. Smith, a consultant and software

significant majority of the

developer in Silicon Valley, referring to the practice of producing software by opening the source code to the online public and allowing anyone to copy, improve upon, and distribute it. Many of these people were motivated by a desire to contribute to the broader good, and to see their achievements recognized

by a community they valued. But the earliest opensource creators didn't share office space—often they didn't even live in the same country. Their collaborations took place largely in the ether. This is not an insignificant detail. If you had gathered the same people who created Linux, installed them in a

a year, and asked them to devise a new operating system, it's doubtful that anything so revolutionary would have occurred—for reasons we'll explore in the rest of this chapter. research

giant conference room for

psychologist Anders Ericsson was fifteen, he took up chess. He was pretty good at it, he thought, trouncing all his classmates during lunchtime matches. Until one day a boy who'd been one of the worst players in the class started to win every match. Ericsson wondered what had happened. "I really

thought about this a lot," he recalls in an interview with Daniel Coyle, author of The Talent Code. "Why could that boy, whom I had beaten so easily, now beat me just as easily? I knew he was studying, going to a chess club, but what had happened, really, underneath?" This is the question that drives Ericsson's career:

achievers get to be so great at what they do? Ericsson has searched for answers in fields as diverse as chess, tennis, and classical piano. In a now-famous experiment, he and his colleagues compared three groups of expert violinists at the elite Music Academy in West Berlin. The

How do extraordinary

researchers asked the professors to divide the students into three groups: the "best violinists," who had the potential for careers as international soloists; the "good violinists"; and a third group training to be violin teachers rather than performers. Then they interviewed the musicians and asked them to keep

time. They found a striking difference among the groups. All three groups spent the same amount of time—over fifty hours a week—participating in music-related activities. All

three had similar

classroom requirements

making demands on their

time. But the two best

detailed diaries of their

groups spent most of their music-related practicing in solitude: 24.3 hours a week, or 3.5 hours a day, for the best group, compared with only 9.3 hours a week, or 1.3 hours a day, for the worst group. The best violinists rated "practice alone" as the most important of all their music-related activities. musicians—even Elite

groups—describe practice sessions with their chamber group as "leisure" compared with solo practice, where the real work gets done. Ericsson and his cohorts found similar effects of solitude when they studied other kinds of expert performers. "Serious study alone" is the strongest

those who perform in

predictor of skill for tournament-rated chess players, for example; grandmasters typically spend a whopping five thousand hours—almost five times as many hours intermediate-level as players—studying the game by themselves during their first ten years of learning to play. College students who tend to study

alone learn more over time than those who work in groups. Even elite athletes in team sports often spend unusual amounts of time in solitary practice. What's so magical about solitude? In many fields, Ericsson told me, it's only when you're alone that you can engage in Deliberate Practice, which he has identified as the

to exceptional key achievement. When you practice deliberately, you identify the tasks or knowledge that are just out of your reach, strive to upgrade your performance, monitor your progress, and accordingly. revise Practice sessions that fall short of this standard are not only less useful they're counterproductive.

They reinforce existing cognitive mechanisms instead of improving them. Deliberate Practice is best conducted alone for several reasons. It takes intense concentration, and other people can be distracting. It requires deep motivation, often self-generated. But most important, it involves working on the task that's

most challenging to you personally. Only when you're alone, Ericsson told me, can you "go directly to the part that's challenging to you. If you want to improve what you're doing, you have to be the one who generates the move. Imagine a group class—you're the one generating the move only a small percentage of the

time." see Deliberate To Practice in action, we need look no further than the story of Stephen Wozniak. The Homebrew meeting was the catalyst that inspired him to build that first PC, but the knowledge base and work habits that made it possible came from another place entirely: Woz had deliberately practiced engineering ever since he was a little kid. (Ericsson says that it takes approximately ten thousand hours of Deliberate Practice to gain true expertise, so it helps to start young.) In *iWoz*, Wozniak describes his childhood passion for electronics, and unintentionally recounts

all the elements of Deliberate Practice that Ericsson emphasizes. First, he was motivated: his father, a Lockheed engineer, had taught Woz that engineers could change people's lives and were "among the key people in the world." Second, he built his expertise step by painstaking step. Because

he entered countless science fairs, he says,

I acquired a central ability that was to help me through my entire career: patience. I'm serious. Patience is usually so underrated. I mean, for all those projects, from third grade all the way to eighth grade, I just

learned things gradually, figuring out how to put electronic devices together without so much as cracking a book.... I learned to not worry so much about the outcome, but to concentrate on the step I was on and to try to do it as perfectly as I could when I was doing it.

Third, Woz often worked alone. This was not necessarily by choice. Like many technically inclined kids, he took a painful tumble down the social ladder when he got to junior high school. As a boy he'd been admired for his science prowess, but now nobody seemed to care. He hated small talk, and his interests were out

of step with those of his peers. A black-and-white photo from this period shows Woz, hair closely grimacing cropped, intensely, pointing proudly "science-fairat his winning Adder/Subtractor," a boxlike contraption wires, knobs, and gizmos. But the awkwardness of those years didn't deter

him from pursuing his dream; it probably nurtured it. He would never have learned so much about computers, Woz says now, if he hadn't been too shy to leave the house. No one would choose this sort of painful adolescence, but the fact is that the solitude of Woz's teens, and the single-

minded focus on what would turn out to be a lifelong passion, is typical for highly creative people. According the to psychologist Mihaly Csikszentmihalyi, who between 1990 and 1995 studied the lives of ninetyone exceptionally creative people in the arts, sciences, business, and government, many of his

subjects were on the social margins during adolescence, partly because "intense curiosity or focused interest seems odd to their peers." Teens who are too gregarious to spend time alone often fail to cultivate their talents "because practicing music or studying math requires a solitude they dread." Madeleine L'Engle, the author of the classic young adult novel A Wrinkle in Time and more than sixty other books, says that she would never have developed into such a bold thinker had she not spent so much of her childhood alone with books and ideas. As a young boy, Charles Darwin made friends easily but preferred to spend his time taking

long, solitary nature walks. (As an adult he was no different. "My dear Mr. Babbage," he wrote to the famous mathematician who had invited him to a dinner party, "I am very much obliged to you for sending me cards for your parties, but I am afraid of accepting them, for I should meet some people there, to whom I have

sworn by all the saints in Heaven, I never go out.") exceptional B₁₁t performance depends not only on the groundwork we lay through Deliberate Practice; it also requires the right working conditions. And contemporary workplaces, these are surprisingly hard to come by.

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One of the side benefits of being a consultant is getting intimate access to many different work

environments. Tom DeMarco, a principal of the Atlantic Systems Guild team of consultants, had walked around a good number of offices in his time, and he noticed that

some workspaces were a lot more densely packed than others. He wondered what effect all that social interaction had on performance. To find out, DeMarco and his colleague Timothy Lister devised a study called the Coding War Games. The purpose of the games was to identify the characteristics of the best and worst computer programmers; more than six hundred developers from ninety-two different companies participated. Each designed, coded, and tested a program, working in his normal office space during business hours. Each participant was also assigned a partner from the same company. The worked partners

separately, however, without any communication, a feature of the games that turned out to be critical. When the results came in, they revealed an enormous performance The best gap. outperformed the worst by a 10:1 ratio. The top programmers were also about 2.5 times better than

the median. DeMarco and Lister tried to figure out what accounted for this astonishing range, the factors that you'd think would matter—such as years of experience, salary, the time spent completing the work—had little correlation outcome. Programmers with ten years' experience

did no better than those with two years. The half who performed above the median earned *less* than 10 percent more than the half below—even though they were almost twice as good. The programmers who turned in "zero-defect" work took slightly less, not more, time to complete the exercise than those who made mistakes.

It was a mystery with one intriguing clue: programmers from the companies same performed at more or less the same level, even though they hadn't worked together. That's because top performers overwhelmingly worked for companies that gave their workers the most privacy, personal space,

control over their physical environments, freedom from interruption. Sixty-two percent of the best performers said that their workspace was private, acceptably compared to only 19 percent of the worst performers; 76 percent of the worst performers but only 38 percent of the top performers said that people often interrupted them needlessly. The Coding War Games are well known in tech circles, but DeMarco and Lister's findings reach beyond the world of computer programmers. A mountain of recent data on

open-plan offices from

many different industries

corroborates the results of

the games. Open-plan

offices have been found to reduce productivity and impair memory. They're associated with high staff turnover. They make people sick, hostile, unmotivated, and insecure. Open-plan workers are more likely to suffer from high blood pressure and elevated stress levels and to get the flu; they argue with their

colleagues; they worry coworkers about eavesdropping on their phone calls and spying on their computer screens. They have fewer personal confidential and with conversations colleagues. They're often subject to loud and uncontrollable noise. which raises heart rates; releases cortisol,

body's fight-or-flight "stress" hormone; and makes people socially distant, quick to anger, aggressive, and slow to help others. Indeed, excessive stimulation seems to impede learning: a recent study found that people learn better after a quiet stroll through the woods than after a noisy walk

down a city street. Another study, of 38,000 knowledge workers across different sectors, found that the simple act of being interrupted is one of the biggest barriers to productivity. Even multitasking, that prized feat of modern-day office warriors, turns out to be a myth. Scientists now know that the brain is incapable

of paying attention to two things at the same time. What looks like multitasking is really switching back and forth between multiple tasks, which reduces productivity and increases mistakes by up to 50 percent. Many introverts seem to know these things instinctively, and resist being herded together.

Backbone Entertainment, a video game design company in Oakland, California, initially used an open office plan but found that their game developers, many of whom were introverts, were unhappy. "It was one big warehouse space, with just tables, no walls, and everyone could see each other," recalls Mike Mika,

the former creative director. "We switched over to cubicles and were worried about it-you'd think in a creative environment that people would hate that. But it turns out they prefer having nooks and crannies they can hide away in and just be away from everybody." Something similar

happened at Reebok International when, in 2000, the company consolidated 1,250 employees in their new headquarters in Canton, Massachusetts. managers assumed that their shoe designers would want office space with plenty of access to each other so they could brainstorm (an idea they

probably picked up when they were getting their MBAs). Luckily, they consulted first with the shoe designers themselves, who told them that actually what they needed was peace and quiet so they could concentrate. This would not have come as news to Jason Fried, cofounder of the web application company

37 signals. For ten years, beginning in 2000, Fried asked hundreds of people designers, (mostly programmers, and writers) where they liked to work when they needed to get something done. He found that they went anywhere but their offices, which were too noisy and full of interruptions. That's why, sixteen Fried's

employees, only eight live in Chicago, where 37 signals is based, and even they are not required to show up for work, even for meetings. Especially not for meetings, which Fried views as "toxic." Fried is not anticollaboration—37signals' home page touts its products' ability to make collaboration productive

and pleasant. But he prefers passive forms of collaboration like e-mail, instant messaging, and online chat tools. His advice for other employers? "Cancel your next meeting," he advises. "Don't reschedule it. Erase it from memory." He also "No-Talk suggests Thursdays," one day a week in which employees

aren't allowed to speak to each other.

The people Fried

interviewed were saying out loud what creative people have always known. Kafka, for

example, couldn't bear to be near even his adoring fiancée while he worked:

You once said that you would like to sit beside

me while I write. Listen, in that case I could not write at all. For writing means revealing oneself to excess; that utmost of self-revelation and surrender, in which a human being, when involved with others, would feel he was losing himself, and from which, therefore, he will always shrink as long as he is in his right mind.... That is why one can never be alone enough when one writes, why there can never be enough silence around one when one writes, why even night is not night enough.

Even the considerably more cheerful Theodor Geisel (otherwise known as Dr. Seuss) spent his

workdays ensconced in his private studio, the walls lined with sketches and drawings, in a bell-tower outside his La Jolla, California, house. Geisel was a much more quiet man than his jocular rhymes suggest. He rarely ventured out in public to meet his young readership, fretting that kids would expect a merry, outspoken, and would be disappointed with his reserved personality. "In mass, [children] terrify me," he admitted.

Cat in the Hat-like figure,

If personal space is vital to creativity, so is freedom from "peer pressure."

Consider the story of the legendary advertising man Alex Osborn. Today Osborn's name rings few bells, but during the first half of the twentieth century he was the kind of larger-than-life renaissance man who mesmerized his contemporaries. Osborn was a founding partner of the advertising agency Batten, Barton, Durstine,

and Osborn (BBDO), but it was as an author that he really made his mark, beginning with the day in 1938 that a magazine editor invited him to lunch and asked what his hobby was. "Imagination," replied Osborn. "Mr. Osborn," said the editor, "you must do a book on that. It's a job that has been waiting to be done all these years. There is no subject of greater importance. You must give it the time and energy and thoroughness it deserves." And so Mr. Osborn did. He wrote several books during the 1940s and 1950s, in fact, each tackling a problem that had vexed him in his capacity as head of BBDO: his employees were not creative enough. They had good ideas, Osborn believed, but were loath to share them for fear of their colleagues' judgment. For Osborn, the solution was not to have his employees work alone, but rather to remove the threat of criticism from group work. He invented the concept of brainstorming,

a process in which group members generate ideas in nonjudgmental a atmosphere. Brainstorming had four rules:

> Don't judge criticize ideas. 2. Be freewheeling. The

or

- wilder the idea, the hetter.
- 3. Go for quantity. The more ideas you have, the

4. Build on the ideas of fellow group members.

better.

Osborn believed passionately that groups—

once freed from the shackles of social judgment—produced more and better ideas than did

individuals working in solitude, and he made grand claims for his favored method. "The quantitative results of group brainstorming are beyond question," he wrote. "One group produced 45 suggestions for a home-appliance promotion, 56 ideas for a money-raising campaign, 124 ideas on how to sell more blankets. In another case, 15 groups brainstormed one and the

same problem and produced over 800 ideas." Osborn's theory had great impact, and company leaders took with brainstorming enthusiasm. To this day, it's common for anyone who spends time in corporate America to find occasionally himself cooped up with colleagues a room

whiteboards, markers, and a preternaturally peppy facilitator encouraging everyone to free-associate. There's only one problem with Osborn's breakthrough idea: group brainstorming doesn't actually work. One of the first studies to demonstrate this was conducted in 1963. Marvin Dunnette, a psychology professor at

University the of Minnesota, gathered fortyeight research scientists and forty-eight advertising executives, all of them male employees of Minnesota Mining and Manufacturing (otherwise known as 3M, inventors of the Post-it), and asked them to participate in both solitary and group brainstorming sessions.

that the executives would benefit from the group process. He was less sure that the research scientists, whom he considered more introverted, would profit from group work. Dunnette divided each set of forty-eight men into twelve groups of four. Each foursome was given a problem to brainstorm,

Dunnette was confident

such as the benefits or difficulties that would arise from being born with an extra thumb. Each man was also given a similar problem to brainstorm on his own. Then Dunnette and his team counted all the ideas, comparing those produced by the groups with those generated by working people individually. In order to compare apples with apples, Dunnette pooled the ideas of each individual together with those of three other individuals, as if they had been working in "nominal" groups of four. The researchers also measured the quality of the ideas, rating them on "Probability Scale" of through 4.

The results were unambiguous. The men in twenty-three of the twenty-four groups produced more ideas when they worked on their own than when they worked as a group. They also produced ideas of equal or higher quality when working individually. And the advertising executives were no better at group

work than the presumably research introverted scientists. Since then, some forty years of research has reached the same startling conclusion. Studies have shown that performance gets worse as group size increases: groups of nine generate fewer and poorer ideas compared to groups

of six, which do worse

than groups of four. The "evidence from science suggests that business people must be insane to use brainstorming groups," writes the organizational psychologist Adrian Furnham. "If you have talented and motivated people, they should be encouraged to work alone when creativity or efficiency is the highest

priority." The one exception to is online this brainstorming. Groups brainstorming electronically, when properly managed, not only do better than individuals, research shows; the larger the group, the better it performs. The same is true of academic research—

professors who work together electronically, from different physical locations, tend to produce research that is more influential than those either working alone or collaborating face-to-face. This shouldn't surprise us; as we've said, it was the curious power of electronic collaboration that contributed to the

New Groupthink in the first place. What created Linux, or Wikipedia, if not a gigantic electronic brainstorming session? But we're so impressed by the power of online collaboration that we've come to overvalue all group work at the expense of solo thought. We fail to realize that participating in an online working

group is a form of solitude all its own. Instead we assume that the success of online collaborations will be replicated in the faceto-face world. Indeed, after all these years of evidence that conventional brainstorming groups don't work, they remain as popular as ever. **Participants**

brainstorming sessions usually believe that their group performed much better than it actually did, which points to a valuable reason for their continued popularity—group makes brainstorming people feel attached. A worthy goal, so long as we understand that social glue, as opposed to creativity, is the principal benefit.

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three explanations for the failure of group brainstorming. The first is social loafing: in a group,

Psychologists usually offer

some individuals tend to sit back and let others do the work. The second is

production blocking: only one person can talk or produce an idea at once, while the other group members are forced to sit passively. And the third is evaluation apprehension, meaning the fear of looking stupid in front of one's peers. Osborn's "rules" of brainstorming were meant to neutralize this anxiety,

but studies show that the fear of public humiliation is a potent force. During the 1988-89 basketball season, for example, two NCAA basketball teams played eleven games without any spectators, owing to a measles outbreak that led their schools to quarantine all students. Both teams played much better

(higher free-throw percentages, for example) without any fans, even adoring home-team fans, to unnerve them. The behavioral economist Dan Ariely a similar noticed phenomenon when he conducted a study asking thirty-nine participants to solve anagram puzzles, either alone at their desks

or with others watching. Ariely predicted that the participants would do better in public because they'd be more motivated. But they performed worse. An audience may be rousing, but it's also stressful. The problem with evaluation apprehension is that there's not much we can do about it. You'd

think you could overcome it with will or training or a set of group process rules like Alex Osborn's. But recent research in neuroscience suggests that the fear of judgment runs much deeper and has more far-reaching implications than we ever imagined. Between 1951 and 1956, just as Osborn was promoting the power of

group brainstorming, a psychologist named Solomon Asch conducted a series of now-famous on the experiments dangers of group influence. Asch gathered student volunteers into groups and had them take a vision test. He showed them a picture of three lines of varying lengths and asked questions about how the lines compared with one another: which was longer, which one matched the length of a fourth line, and so on. His questions were so simple that 95 percent of students answered every question correctly. But when Asch planted actors in the groups, and the actors confidently volunteered the same

incorrect answer, the number of students who gave all correct answers plunged to 25 percent. That is, a staggering 75 percent of the participants went along with the group's wrong answer to at least one question. The Asch experiments demonstrated the power of conformity at exactly the time that Osborn was

trying to release us from its chains. What they didn't tell us was why we were so prone to conform. What was going on in the minds of the kowtowers? Had their perception of the lines' lengths been altered by peer pressure, or did they knowingly give wrong answers for fear of being the odd one out? For decades, psychologists

puzzled over this question. Today, with the help of brain-scanning technology, we may be getting closer to the answer. In 2005 an **Emory** University neuroscientist named Gregory Berns decided to conduct an updated of Asch's version experiments. Berns and his team recruited thirty-two volunteers,

women between the ages of nineteen and forty-one. The volunteers played a game in which each group member was shown two different three-dimensional objects on a computer screen and asked to decide whether the first object could be rotated to match the second. The experimenters used an fMRI scanner to take snapshots of the volunteers' brains as they conformed to or broke with group opinion. The results were both disturbing and illuminating. First, they Asch's corroborated findings. When the volunteers played the game on their own, they gave the wrong answer only 13.8 percent of the time. But when they played with a group whose members gave unanimously wrong answers, they agreed with the group 41 percent of the time. But Berns's study also shed light on exactly why we're such conformists. When the volunteers played alone, the brain scans showed activity in a

network of brain regions including the occipital cortex and parietal cortex, which are associated with visual and spatial perception, and in the frontal cortex, which is associated with conscious decision-making. But when they went along with their group's wrong answer, their brain activity revealed something very different. Remember, what Asch wanted to know was whether people conformed despite knowing that the group was wrong, or whether their perceptions had been altered by the group. If the former was true, Berns and his team reasoned, then they should see more brain activity in decision-making the

prefrontal cortex. That is, the brain scans would pick up the volunteers deciding consciously to abandon their own beliefs to fit in with the group. But if the brain scans showed heightened activity in regions associated with visual and spatial perception, this would suggest that the group had somehow managed to

change the individual's perceptions. That was exactly what happened—the conformists showed less brain activity in the frontal, decision-making regions and more in the areas of the brain associated with perception. Peer pressure, in other words, is not only unpleasant, but can

of a problem.

These early findings suggest that groups are like mind-altering substances. If the group

actually change your view

thinks the answer is A, you're much more likely to believe that A is correct, too. It's not that you're

saying consciously, "Hmm, I'm not sure, but they all think the answer's A, so I'll

go with that." Nor are you saying, "I want them to like me, so I'll just pretend that the answer's A." No, you are doing something much more unexpected and dangerous. Most of Berns's volunteers reported having gone along with the group because "they thought that they had arrived serendipitously at the same correct answer."

other words, to how much their peers had influenced them.

What does this have to

They were utterly blind, in

do with social fear? Well, remember that the volunteers in the Asch and Berns studies didn't always conform. Sometimes they picked the right answer

despite their peers'

influence. And Berns and

very interesting about these moments. They were linked to heightened activation in the amygdala, a small organ in the brain associated with upsetting emotions such as the fear of rejection. Berns refers to this "the pain independence," and it has serious implications. Many

his team found something

of our most important civic institutions, from elections to jury trials to the very idea of majority rule, depend on dissenting voices. But when the group is literally capable of changing our perceptions, and when to stand alone is to activate primitive, powerful, and unconscious feelings of rejection, then the health of these

institutions seems far more vulnerable than we think.

simplifying the case against face-to-face collaboration. Steve Wozniak collaborated with

But of course I've been

Steve Jobs, after all; without their pairing,

there would be no Apple today. Every pair bond between mother and father, between parent and child, is an act of creative collaboration. Indeed, studies show that face-toface interactions create trust in a way that online interactions can't. Research also suggests that population density is correlated

innovation; despite the advantages of quiet walks in the woods, people in crowded cities benefit from the web of interactions that urban life offers. I have experienced this phenomenon personally. When I was getting ready to write this book, I carefully set up my home office, complete with

uncluttered desk, file cabinets, free counter space, and plenty of natural light—and then felt too cut off from the world to type a single keystroke there. Instead, I wrote most of this book on a laptop at my favorite packed densely neighborhood café. I did this for exactly the reasons that champions of the New

Groupthink might suggest: the mere presence of other people helped my mind to make associative leaps. The coffee shop was full of people bent over their own computers, and if the expressions of rapt concentration on their faces were any indication, I wasn't the only one getting a lot of work done. But the café worked as

my office because it had specific attributes that are absent from many modern schools and workplaces. It was social, yet its casual, come-and-go-as-you-please nature left me free from unwelcome entanglements and able to "deliberately practice" my writing. I could toggle back and forth between observer and social actor as much

as I wanted. I could also control my environment. Each day I chose the location of my table—in the center of the room or along the perimeter depending on whether I wanted to be seen as well as to see. And I had the option to leave whenever I wanted peace and quiet to edit what I'd written that day. Usually I was ready to

only a few hours-not the eight, ten, or fourteen hours that many office dwellers put in. The way forward, I'm suggesting, is not to stop collaborating face-to-face, but to refine the way we do it. For one thing, we should actively seek out

extrovert relationships, in

symbiotic

introvert-

exercise this right after

which leadership and other tasks are divided according to people's natural strengths and temperaments. The most effective teams are composed of a healthy mix of introverts and extroverts, studies show, and so are many leadership structures. We also need to create settings in which people

are free to circulate in a shifting kaleidoscope of interactions, and disappear into their private workspaces when they want to focus or simply be alone. Our schools should teach children the skills to work with others—cooperative learning can be effective when practiced well and in moderation—but also the time and training they to deliberately need practice on their own. It's also vital to recognize that many people—especially introverts like Steve Wozniak—need extra quiet and privacy in order to do their best work. Some companies are starting to understand the value of silence and solitude, and are creating

"flexible" open plans that offer a mix of solo workspaces, quiet zones, casual meeting areas, cafés, reading rooms, computer hubs, and even "streets" where people can chat casually with each other without interrupting others' workflow. At Pixar Animation Studios, the sixteen-acre campus is built around a footballfield-sized atrium housing mailboxes, a cafeteria, and even bathrooms. The idea is to encourage as many casual, chance encounters as possible. At the same time, employees are encouraged to make their individual offices, cubicles, desks, and work areas their own and to decorate them as they wish. Similarly, at Microsoft,

many employees enjoy their own private offices, yet they come with sliding doors, movable walls, and other features that allow occupants to decide when they want to collaborate and when they need private time to think. These kinds of diverse workspaces benefit introverts as well as extroverts, the systems

design researcher Matt Davis told me, because they offer more spaces to retreat to than traditional open-plan offices. I suspect that Wozniak himself would approve of these developments. Before he created the Apple PC, Woz designed calculators at Hewlett-Packard, a job he loved in part because HP made it so

easy to chat with others. Every day at 10:00 a.m. and 2:00 p.m. management wheeled in donuts and coffee, and people would socialize and swap ideas. What set these interactions apart was how low-key and relaxed they were. In *iWoz*, he recalls HP as a meritocracy where it didn't matter what you looked like, where there

was no premium on playing social games, and where no one pushed him from his beloved engineering work into management. That was what collaboration meant for Woz: the ability to share a donut and a brainwave with his laidback, nonjudgmental, poorly dressed colleagues —who minded not a whit when he disappeared into his cubicle to get the real work done.

Part TWO

YOUR BIOLOGY, YOUR SELF?

4 IS TEMPERAMENT DESTINY?

Nature, Nurture, and the Orchid Hypothesis

Some people are more certain of everything than I am of anything.

—ROBERT RUBIN, In an Uncertain World

ALMOST TEN YEARS AGO

It's 2:00 a.m., I can't sleep, and I want to die.

I'm not normally the

suicidal type, but this is the night before a big speech, and my mind races with horrifying what-if

mouth dries up and I can't get any words out? What if I bore the audience? What

propositions. What if my

if I throw up onstage? My boyfriend (now my husband), Ken, watches me toss and turn. He's bewildered by my distress. A former UN peacekeeper, he once was ambushed in Somalia, yet I don't think he felt as scared then as I do now. "Try to think of happy things," he says, caressing my forehead.

I stare at the ceiling, tears welling. What happy things? Who could be happy in a world of podiums and microphones? "There are a billion people in China who don't give a rat's ass about your speech," Ken offers sympathetically. This helps, for approximately five

seconds. I turn over and watch the alarm clock. Finally it's six thirty. At least the worst part, the night-before part, is over; this time tomorrow, I'll be free. But first I have to get through today. I dress grimly and put on a coat. Ken hands me a sports water bottle filled with Baileys Irish Cream. I'm not a big drinker, but I like

like a chocolate milkshake. "Drink this fifteen minutes before you go on," he says, kissing me good-bye. I take the elevator downstairs and settle into the car that waits to ferry me to my destination, a big corporate headquarters in suburban New Jersey. The drive gives me plenty

of time to wonder how I

Baileys because it tastes

allowed myself to get into this situation. I recently left my job as a Wall Street lawyer to start my own consulting firm. Mostly I've worked one-on-one or in small groups, which feels comfortable. But when an acquaintance who is general counsel at a big media company asked me to run a seminar for his entire executive team, I

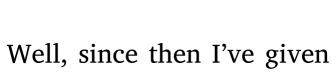
agreed—enthusiastically, even!—for reasons I can't fathom now. I find myself praying for calamity—a flood or a small earthquake, maybe anything so I don't have to go through with this. Then I feel guilty for involving the rest of the city in my drama. The car pulls up at the client's office and I step

out, trying to project the peppy self-assurance of a successful consultant. The event organizer escorts me to the auditorium. I ask for directions to the bathroom, and, in the privacy of the stall, gulp from the water bottle. For a few moments I stand still, waiting for the alcohol to work its magic. But nothing happens—I'm

still terrified. Maybe I should take another swig. No, it's only nine in the morning—what if they smell the liquor on my breath? I reapply my lipstick and make my way back to the event room, where I arrange my notecards at the podium as the room fills with important-looking businesspeople. Whatever you do, try not to vomit, I tell myself. Some of the executives glance up at me, but most of them stare fixedly at their BlackBerrys. Clearly, I'm taking them away from very pressing work. How am I going to hold their attention long enough for them to stop pounding out urgent communiqués into

their tiny typewriters? I

vow, right then and there, that I will never make another speech.



plenty of them. I haven't completely overcome my anxiety, but over the years I've discovered strategies that can help anyone with stage fright who needs to speak in public. More about that in chapter 5. In the meantime, I've told you my tale of abject terror because it lies at the heart of some of my most urgent questions about introversion. On some deep level, my fear of public speaking seems connected to other aspects of my personality that I

appreciate, especially my love of all things gentle and cerebral. This strikes me as a not-uncommon constellation of traits. But are they truly connected, and if so, how? Are they the result of "nurture" the way I was raised? Both of my parents are softspoken, reflective types; my mother hates public speaking too. Or are they

my "nature"—something deep in my genetic makeup? I've been puzzling over these questions for my entire adult life. Fortunately, so have researchers at Harvard, where scientists are probing the human brain in an attempt to discover the biological origins of human temperament.

One such scientist is an eighty-two-year-old man named Jerome Kagan, one of the great developmental psychologists of the twentieth century. Kagan devoted his career to studying the emotional and cognitive development of children. In a series of groundbreaking longitudinal studies, he followed children from

infancy through adolescence, documenting their physiologies and personalities along the way. Longitudinal studies like these are timeconsuming, expensive, and therefore rare—but when they pay off, as Kagan's did, they pay off big. For one of those studies, launched in 1989 and still ongoing, Professor Kagan

and his team gathered five hundred four-month-old infants in his Laboratory for Child Development at Harvard, predicting they'd be able to tell, on the strength of a forty-fiveminute evaluation, which babies were more likely to turn into introverts or extroverts. If you've seen a four-month-old baby lately, this may seem an

audacious claim. But Kagan had been studying temperament for a long time, and he had a theory. Kagan and his team exposed the four-montholds to a carefully chosen set of new experiences. The infants heard taperecorded voices and balloons popping, saw colorful mobiles dance before their eyes, and

inhaled the scent of alcohol on cotton swabs. They had wildly varying reactions to the new stimuli. About 20 percent cried lustily and pumped their arms and legs. Kagan called this group "highreactive." About 40 percent stayed quiet and placid, moving their arms or legs occasionally, but without all the dramatic

limb-pumping. This group Kagan called "lowreactive." The remaining 40 percent fell between these two extremes. In a startlingly counterintuitive Kagan hypothesis, predicted that it was the infants in the high-reactive group—the lusty armpumpers—who were most likely to grow into quiet teenagers.

When they were two, four, seven, and eleven years old, many of the children returned to Kagan's lab for follow-up testing of their reactions to new people and events. At the age of two, the children met a lady wearing a gas mask and a lab coat, a man dressed in a clown costume, and a radio-controlled robot. At

seven, they were asked to play with kids they'd never met before. At eleven, an unfamiliar adult interviewed them about their personal lives. Kagan's team observed how the children reacted to these strange situations, noting their body language and recording how often and spontaneously they laughed, talked, and

smiled. They also interviewed the kids and their parents about what the children were like outside the laboratory. Did they prefer one or two close friends to a merry band? Did they like visiting new places? Were they risk-takers or were they more cautious? Did they consider themselves shy or bold?

Many of the children turned out exactly as Kagan had expected. The high-reactive infants, the 20 percent who'd hollered at the mobiles bobbing above their heads, were more likely to have developed serious, careful personalities. The lowreactive infants—the quiet ones—were more likely to have become relaxed and

confident types. High and low reactivity tended to correspond, in other words, to introversion and extroversion. As Kagan mused in his 1998 book, Galen's Prophecy, "Carl Jung's descriptions of the introvert and extrovert, written over seventy-five years ago, apply with uncanny accuracy to a proportion of our highand low-reactive adolescents." Kagan describes two of adolescents those Tom and reserved extroverted Ralph—and the differences between the two are striking. Tom, who was unusually shy as a child, is good at school, watchful and quiet, devoted to his girlfriend and parents, prone to

worry, and loves learning on his own and thinking intellectual about problems. He plans to be a scientist. "Like ... other famous introverts who were shy children," writes Kagan, comparing Tom to T. S. Eliot and the mathematicianphilosopher Alfred North Whitehead, Tom "has chosen a life of the mind."

Ralph, in contrast, is relaxed and self-assured. He engages the interviewer from Kagan's team as a peer, not as an authority figure twenty-five years his senior. Though Ralph is very bright, he recently failed his English and science classes because he'd been goofing around. But nothing much bothers Ralph. He admits his flaws

cheerfully. **Psychologists** often discuss the difference between "temperament" "personality." and Temperament refers to inborn, biologically based behavioral and emotional that are patterns observable in infancy and childhood; early personality is the complex brew that emerges after

cultural influence and personal experience are thrown into the mix. Some say that temperament is the foundation, and personality is the building. Kagan's work helped link certain infant with temperaments adolescent personality styles like those of Tom and Ralph.

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But how did Kagan know that the arm-thrashing infants would likely turn into cautious, reflective

teens like Tom, or that the

quiet babies were more

likely to become forthright, too-cool-forschool Ralphs? The answer lies in their physiologies. In addition to observing the children's behaviors in strange situations, Kagan's team measured their heart rates, blood pressure, finger temperature, and other properties of the nervous system. Kagan chose these measures because they're believed to be controlled by a potent organ inside the brain called the amygdala. The amygdala is located deep

in the limbic system, an ancient brain network found even in primitive animals like mice and rats. This network—sometimes called the "emotional brain"—underlies many of the basic instincts we share with these animals, such as appetite, sex drive, and fear. The amygdala serves as the brain's emotional

switchboard, receiving information from the senses and then signaling the rest of the brain and nervous system how to respond. One of its functions is to instantly detect new or threatening things in the environment —from an airborne Frisbee to a hissing serpent—and send rapid-fire signals through the body that

trigger the fight-or-flight response. When the Frisbee looks like it's headed straight for your nose, it's your amygdala that tells you to duck. When the rattlesnake prepares to bite, it's the amygdala that makes sure vou run. Kagan hypothesized that infants born with an excitable especially

amygdala would wiggle and howl when shown unfamiliar objects-and grow up to be children who were more likely to feel vigilant when meeting new people. And this is just what he found. In other words, the fourmonth-olds who thrashed their arms like punk rockers did so not because they were extroverts in the making, but because their little bodies reacted strongly—they were "highreactive"-to new sights, sounds, and smells. The quiet infants were silent not because they were future introverts—just the opposite—but because they had nervous systems that were unmoved by novelty. The more reactive a

child's amygdala, the higher his heart rate is likely to be, the more widely dilated his eyes, the tighter his vocal cords, the more cortisol (a stress hormone) in his saliva the more jangled he's likely to feel when he confronts something new and stimulating. As highreactive infants grow up, they continue to confront

the unknown in many different contexts, from visiting an amusement park for the first time to meeting new classmates on the first day of kindergarten. We tend to notice most a child's reaction to unfamiliar people—how does he behave on the first day of school? Does she seem uncertain at birthday

parties full of kids she doesn't know? But what we're really observing is a child's sensitivity to novelty in general, not just to people. High- and low-reactivity are probably not the only biological routes to introversion and extroversion. There are plenty of introverts who do not have the sensitivity

of a classic high-reactive, and a small percentage of high-reactives grow up to be extroverts. Still, Kagan's decades-long series of discoveries mark a dramatic breakthrough in our understanding of these personality styles including the value judgments we make. Extroverts are sometimes credited with being "pro-

social"—meaning caring others—and about introverts disparaged as people who don't like people. But the reactions of the infants in Kagan's tests had nothing to do with people. These babies were shouting (or not shouting) over Q-tips. They were pumping their limbs (or staying calm) in response to popping balloons. The high-reactive were babies not misanthropes in the making; they were simply sensitive to their environments. Indeed, the sensitivity of these children's nervous systems seems to be linked not only to noticing scary things, but to noticing in general. High-reactive children pay what one

psychologist calls "alert attention" to people and things. They literally use more eye movements than others to compare choices before making a decision. It's as if they process more deeply—sometimes consciously, sometimes not —the information they take in about the world. In one early series of studies, Kagan asked a group of

first-graders to play a visual matching game. Each child was shown a picture of a teddy bear sitting on a chair, alongside six other similar pictures, only one of which was an exact match. The high-reactive children spent more time than others considering all the alternatives, and were more likely to make the right choice. When Kagan asked these same kids to play word games, he found that they also read more accurately than impulsive children did. High-reactive kids also tend to think and feel deeply about what they've noticed, and to bring an extra degree of nuance to everyday experiences. This can be expressed in many

different ways. If the child is socially oriented, she may spend a lot of time pondering observations of others why Jason didn't want to share his toys today, why Mary got so mad at Nicholas when he bumped into her accidentally. If he has a particular interest in solving puzzles, making art, building sand castleshe'll often concentrate with unusual intensity. If a toddler high-reactive breaks another child's toy by mistake, studies show, she often experiences a more intense mix of guilt and sorrow than a lowerreactive child would. All kids notice their environments and feel emotions, of course, but high-reactive kids seem to

see and feel things more. If you ask a high-reactive seven-year-old how group of kids should share a coveted toy, writes the science journalist Winifred Gallagher, he'll tend to up with come sophisticated strategies like "Alphabetize their last names, and let the person closest to A go first." "Putting theory into

practice is hard for them," writes Gallagher, "because their sensitive natures and elaborate schemes are unsuited to the heterogeneous rigors of the schoolyard." Yet as we'll see in the chapters to come, these traits alertness, sensitivity to complex nuance, emotionality—turn out to be highly underrated powers.

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Kagan has given us painstakingly documented evidence that high reactivity is one biological basis of introversion (we'll

explore another likely route in chapter 7), but his findings are powerful in

part because they confirm what we've sensed all along. Some of Kagan's studies even venture into the realm of cultural myth. For example, he believes, based on his data, that high reactivity is associated with physical traits such as blue eyes, allergies, and hay fever, and that high-reactive men are more likely than others to have a thin body and narrow face. Such conclusions are speculative and call to mind the nineteenth-century practice of divining a man's soul from the shape of his skull. But whether or not they turn out to be accurate, it's interesting that these are just the physical characteristics we give fictional characters

when we want to suggest that they're quiet, introverted, cerebral. It's as if these physiological tendencies are buried deep cultural in our unconscious. Take Disney movies, for example: Kagan and his colleagues speculate that animators Disney unconsciously understood high reactivity when they drew sensitive figures like Cinderella, Pinocchio, and Dopey with blue eyes, and brasher characters like Cinderella's stepsisters, Grumpy, and Peter Pan with darker eyes. In many books, Hollywood films, and TV shows, too, the stock character of a reedy, nose-blowing young man is shorthand for the hapless but thoughtful kid

who gets good grades, is a bit overwhelmed by the social whirl, and is talented at introspective activities like poetry or astrophysics. (Think Ethan Hawke in Dead Poets Society.) Kagan even speculates that some men prefer women with fair skin and blue eyes because they unconsciously code them as sensitive.

Other studies of personality also support premise the that extroversion and introversion are physiologically, genetically, based. One of the most common ways of untangling nature from nurture is to compare the personality traits of identical and fraternal twins. Identical twins

develop from a single fertilized egg and therefore have exactly the same genes, while fraternal twins come from separate eggs and share only 50 percent of their genes on average. So if you measure introversion extroversion levels in pairs of twins and find more correlation in identical twins than in fraternal

pairs—which scientists do, in study after study, even of twins raised in separate households—you reasonably conclude that the trait has some genetic basis. None of these studies is perfect, but the results have consistently suggested that introversion and extroversion, like

other major personality

traits such as agreeableness and conscientiousness, are about 40 to 50 percent heritable. But are biological explanations for wholly introversion satisfying? When I first read Kagan's book Galen's Prophecy, I was so excited that I couldn't sleep. Here, inside these pages, were

my friends, my family, myself—all of humanity, in fact!—neatly sorted through the prism of a quiescent nervous system versus a reactive one. It was as if centuries of philosophical inquiry into the mystery of human personality had led to this shining moment of scientific clarity. There was an easy answer to the

nature-nurture question after all—we are born with prepackaged temperaments that powerfully shape our adult personalities. But it couldn't be that simple—could it? Can we really reduce an introverted or extroverted personality to the nervous system its owner was born with? I would guess that I inherited a high-reactive nervous system, but my mother insists I was an easy baby, not the kind to kick and wail over a popped balloon. I'm prone to wild flights of selfdoubt, but I also have a deep well of courage in my own convictions. I feel horribly uncomfortable on my first day in a foreign city, but I love to travel. I

was shy as a child, but have outgrown the worst of it. Furthermore, I don't think these contradictions are so unusual; many people have dissonant aspects to their personalities. And people change profoundly over time, don't they? What about free will-do we have no control over who we are, and whom we

become? I decided to track down Professor Kagan to ask him these questions in person. I felt drawn to him not only because his research findings were SO compelling, but also because of what he represents in the great nature-nurture debate. He'd launched his career in 1954 staunchly on the

side of nurture, a view in step with the scientific establishment of the day. Back then, the idea of inborn temperament was dynamite, political evoking the specter of Nazi eugenics and white supremacism. By contrast, the notion of children as blank slates for whom anything was possible appealed to a nation built

on democracy. But Kagan had changed his mind along the way. "I have been dragged, kicking and screaming, by my data," he says now, "to acknowledge that temperament is more powerful than I thought and wish to believe." The publication of his early

findings on high-reactive

in Science

children

to legitimize the idea of inborn temperament, partly because his "nurturist" reputation was

magazine in 1988 helped

so strong.

If anyone could help me untangle the nature-nurture question, I hoped, it was Jerry Kagan.

Kagan ushers me inside his office in Harvard's William James Hall, surveying me unblinkingly as I sit down: not unkind, but definitely discerning. I had imagined him as a gentle, white-labcoated scientist in a cartoon, pouring chemicals from one test tube to another until—poof! Now, Susan, you know exactly who you are. But this isn't

the mild-mannered old professor I'd imagined. Ironically for a scientist whose books are infused with humanism and who describes himself as having been an anxious, easily frightened boy, I find him downright intimidating. I kick off our interview by asking a background question whose premise he disagrees with. "No, no,

no!" he thunders, as if I weren't sitting just across from him. The high-reactive side of my personality kicks into full gear. I'm always softspoken, but now I have to force my voice to come out louder than a whisper (on the tape recording of our conversation, Kagan's voice sounds booming and

declamatory, mine much

quieter). I'm aware that I'm holding my torso tensely, one of the telltale signs of the high-reactive. It feels strange to know that Kagan must be observing this too—he says as much, nodding at me as he notes that many high-reactives become writers or pick other intellectual vocations where "you're in charge:

you close the door, pull down the shades and do your work. You're protected from encountering unexpected things." (Those from less educated backgrounds tend to become file clerks and truck drivers, he says, for the same reasons.) I mention a little girl I know who is "slow to warm up." She studies new

people rather than greeting them; her family goes to the beach every weekend, but it takes her ages to dip a toe into the surf. A classic highreactive, I remark. "No!" Kagan exclaims. "Every behavior has more than one cause. Don't ever forget that! For every child who's slow to warm up, yes, there will be

statistically more highreactives, but you can be slow to warm up because of how you spent the first three and a half years of your life! When writers and journalists talk, they want to see a one-to-one relationship—one behavior, one cause. But it's really important that you see, for behaviors like slow-to-warm-up, shyness,

impulsivity, there are many routes to that." He reels off examples of environmental factors that could produce an introverted personality independently of, or in concert with, a reactive nervous system: A child might enjoy having new ideas about the world, say, so she spends a lot of time inside her head. Or health

problems might direct a child inward, to what's going on inside his body. My fear of public speaking might be equally complex. Do I dread it because I'm a high-reactive introvert? Maybe not. Some high-reactives love public speaking and performing, and plenty of extroverts have stage fright; public speaking is

the number-one fear in America, far more common than the fear of death. Public speaking phobia has many causes, including early childhood setbacks, that have to do with our unique personal histories, not inborn temperament. In fact, public speaking anxiety may be primal and quintessentially human,

born with a high-reactive nervous system. One theory, based on the the writings of sociobiologist E. O. Wilson, holds that when our ancestors lived on the savannah, being watched intently meant only one thing: a wild animal was stalking us. And when we think we're about to be

not limited to those of us

eaten, do we stand tall and hold forth confidently? No. We run. In other words, hundreds of thousands of years of evolution urge us to get the hell off the stage, where we can mistake the gaze of the spectators for the glint in a predator's eye. Yet the audience expects not only that we'll stay put, but that we'll act relaxed and

assured. This conflict between biology and protocol is one reason that speechmaking can be so fraught. It's also why exhortations to imagine the audience in the nude don't help nervous speakers; naked lions are just as dangerous as elegantly dressed ones. But even though all human beings may be prone to mistaking audience members for predators, each of us has a different threshold for triggering the fight-orflight response. How threateningly must the eyes of the audience members narrow before you feel they're about to pounce? Does it happen before you've even stepped onstage, or does it take a

few really good hecklers to trigger that adrenaline rush? You can see how a highly sensitive amygdala would make you more susceptible to frowns and bored sighs and people who check their BlackBerrys while vou're mid-sentence. And indeed, studies do show that introverts are significantly more likely

public speaking. Kagan tells me about the time he watched a fellow scientist give a wonderful talk at a conference. Afterward, the speaker asked if they could have lunch. Kagan agreed, and the scientist proceeded to tell him that he gives

lectures every month and,

despite his capable stage

than extroverts to fear

time. Reading Kagan's work had had a big impact on him, however.
"You changed my life," he told Kagan. "All this

time I've been blaming my

mother, but now I think

I'm a high-reactive."

persona, is terrified each

So am I introverted because I inherited my parents' high reactivity, copied their behaviors, or both? Remember that the heritability statistics derived from twin studies show that introversionextroversion is only 40 to 50 percent heritable. This means that, in a group of people, on average half of variability the

introversion-extroversion is caused by genetic factors. To make things even more complex, there are probably many genes at work, and Kagan's framework of high reactivity is likely one of many physiological routes to introversion. Also, averages are tricky. A heritability rate of 50 percent doesn't necessarily

mean that my introversion is 50 percent inherited from my parents, or that half of the difference in extroversion between my best friend and me is genetic. One hundred percent of my introversion might come from genes, or none at all—or more likely unfathomable some combination of genes and experience. To ask

whether it's nature or nurture, says Kagan, is like asking whether a blizzard is caused by temperature or humidity. It's the interaction intricate between the two that makes us who we are. So perhaps I've been asking the wrong question. Maybe the mystery of what percent personality is nature and

what percent nurture is less important than the question of how your inborn temperament interacts with the environment and with your own free will. To what degree temperament destiny? On the one hand, according to the theory of gene-environment interaction, people who

inherit certain traits tend to seek out life experiences that reinforce those characteristics. The most low-reactive kids, for example, court danger from the time they're toddlers, so that by the time they grow up they don't bat an eye at grownup-sized risks. They "climb a few fences, become desensitized, and climb up

on the roof," the late psychologist David Lykken once explained in an Atlantic article. "They'll have all sorts of experiences that other kids won't. Chuck Yeager (the first pilot to break the sound barrier) could step down from the belly of the bomber into the rocketship and push the button not because he was born with

that difference between him and me, but because for the previous thirty years his temperament impelled him to work his way up from climbing trees through increasing degrees of danger and excitement." Conversely, highreactive children may be more likely to develop into artists and writers and

scientists and thinkers because their aversion to novelty causes them to spend time inside the familiar—and intellectually fertile environment of their own heads. "The university is filled with introverts," observes the psychologist Jerry Miller, director of the Center for the Child and the Family at the

University of Michigan. "The stereotype of the university professor is accurate for so many people on campus. They like to read; for them there's nothing more exciting than ideas. And some of this has to do with how they spent their time when they were growing up. If you spend a lot of time charging around,

then you have less time for reading and learning. There's only so much time in your life." On the other hand, there is also a wide range of possible outcomes for each temperament. reactive, extroverted children, if raised by attentive families in safe environments, can grow up to be energetic achievers

with big personalities—the Richard Bransons and Oprahs of this world. But give those same children negligent caregivers or a bad neighborhood, say some psychologists, and they can turn into bullies, juvenile delinquents, or criminals. Lykken has called controversially psychopaths and heroes "twigs on the same genetic

branch." Consider the mechanism by which kids acquire their sense of right and wrong. Many psychologists believe that children develop a conscience when they do something inappropriate and are by their rebuked caregivers. Disapproval makes them feel anxious, and since anxiety

unpleasant, they learn to steer clear of antisocial behavior. This is known as internalizing their parents' standards of conduct, and its core is anxiety. But what if some kids are less prone to anxiety than others, as is true of extremely low-reactive kids? Often the best way to teach these children values is to give them positive

role models and to channel their fearlessness into productive activities. A low-reactive child on an ice-hockey team enjoys his peers' esteem when he charges at his opponents with a lowered shoulder, which is a "legal" move. But if he goes too far, raises his elbow, and gives another guy a concussion, he lands in the penalty

box. Over time he learns to use his appetite for risk and assertiveness wisely. Now imagine this same child growing up in a dangerous neighborhood with few organized sports or other constructive channels for his boldness. You can see how he might fall into delinquency. It may be that some disadvantaged kids who

temperament deprived of healthy outlets. The destinies of the most

solely from poverty or neglect, say those who hold this view, but also from the tragedy of a bold exuberant and

get into trouble suffer not

high-reactive kids are also influenced by the world around them—perhaps even more so than for the average child, according to a groundbreaking new theory dubbed "the orchid hypothesis" by David Dobbs in a wonderful article in The Atlantic. This theory holds that many children are like dandelions, able to thrive

in just about any environment. But others, including the high-reactive types that Kagan studied, are more like orchids: they wilt easily, but under the right conditions can grow strong and magnificent. According to Jay Belsky, a leading proponent of this view and a psychology professor and child care expert at the University of London, the reactivity of these kids' nervous systems makes them quickly overwhelmed by childhood adversity, but also able to benefit from a nurturing environment more than other children do. In other words, orchid children are more strongly affected by all experience, both positive and negative. Scientists have known

for a while that highreactive temperaments come with risk factors. These kids are especially vulnerable to challenges like marital tension, a parent's death, or abuse. They're more likely than their peers to react to these events with depression, anxiety, and shyness. Indeed, about a quarter of Kagan's highsome degree of the condition known as "social anxiety disorder," chronic and disabling form of shyness. What scientists haven't realized until recently is that these risk factors have an upside. In other words, the sensitivities and the strengths are a package deal. High-reactive kids

reactive kids suffer from

who enjoy good parenting, child care, and a stable home environment tend to have fewer emotional problems and more social skills than their lowerreactive peers, studies show. Often they're exceedingly empathic, caring, and cooperative. They work well with others. They are kind, conscientious, and easily disturbed by cruelty, injustice, and irresponsibility. They're successful at the things that matter to them. They don't necessarily turn into class presidents or stars of the school play, Belsky told me, though this can happen, too: "For some it's becoming the leader of their class. For others it takes the form of doing

well academically or being well-liked."

The upsides of the high-reactive temperament have been documented in

exciting research that scientists are only now beginning to pull together. One of the most interesting findings, also reported in Dobbs's Atlantic article, comes from the world of rhesus monkeys, a species

that shares about 95 percent of its DNA with humans and has elaborate social structures that resemble our own. In these monkeys as well as in humans, a gene known as the serotonintransporter (SERT) gene, or 5-HTTLPR, helps to regulate the processing of serotonin, a neurotransmitter that

affects mood. A particular variation, or allele, of this gene, sometimes referred to as the "short" allele, is thought to be associated with high reactivity and introversion, as well as a heightened risk of depression in humans who have had difficult lives. When baby monkeys with a similar allele were subjected to stress—in one

experiment they were taken from their mothers and raised as orphans they processed serotonin less efficiently (a risk factor for depression and anxiety) than monkeys with the long allele who endured similar privations. But young monkeys with the same risky genetic profile who were raised by nurturing mothers did as

well as or better than their long-allele brethren—even those raised in similarly secure environments—at key social tasks, like playmates, finding building alliances, and handling conflicts. They often became leaders of their troops. They also processed serotonin more efficiently. Stephen Suomi, the

studies, has these speculated that these highreactive monkeys owed their success to the enormous amounts of time they spent watching rather than participating in the group, absorbing on a deep level the laws of social dynamics. (This is a hypothesis that might ring true to parents whose

scientist who conducted

high-reactive children hover observantly on the edges of their peer group, sometimes for weeks or months, before edging successfully inside.) Studies in humans have found that adolescent girls with the short allele of the SERT gene are 20 percent more likely to be depressed than long-allele girls when exposed to

family stressful environments, but 25 percent less likely to be depressed when raised in stable homes. Similarly, short allele adults have been shown to have more anxiety in the evening than others when they've had stressful days, but less anxiety on calm days. High-reactive four-yearolds give more pro-social

responses than other children when presented with moral dilemmas—but this difference remains at age five only if their mothers used gentle, not harsh, discipline. Highreactive children raised in supportive environments are even more resistant than other kids to the common cold and other respiratory illnesses, but

get sick more easily if they're raised in stressful conditions. The short allele of the SERT gene is also associated with higher performance on a wide range of cognitive tasks. These findings are so dramatic that it's remarkable no one arrived at them until recently. Remarkable, but perhaps surprising. not

Psychologists are trained to heal, so their research naturally focuses on problems and pathology. "It is almost as if, metaphorically speaking, sailors are so busy—and wisely—looking under the water line for extensions of icebergs that could sink their ship," writes Belsky, "that they fail to appreciate by that

iceberg it might prove possible to chart a clear passage through the iceladen sea." The parents of highreactive children are exceedingly lucky, Belsky told me. "The time and effort they invest will actually make a difference. Instead of seeing these kids

as vulnerable to adversity,

climbing on top of the

parents should see them as malleable—for worse, but also for better." He describes eloquently a high-reactive child's ideal parent: someone who "can read your cues and respect your individuality; is warm and firm in placing demands on you without being harsh or hostile; curiosity, promotes achievement, academic

delayed gratification, and self-control; and is not harsh, neglectful, or inconsistent." This advice is terrific for all parents, of course, but it's crucial for raising a high-reactive child. (If you think your child might be highreactive, you're probably already asking yourself what else you can do to cultivate your son or

daughter. Chapter 11 has some answers.) But even orchid children can withstand some adversity, Belsky says. Take divorce. In general, it will disrupt orchid kids more than others: "If the parents squabble a lot, and put their kid in the middle, then watch out—this is the kid who will succumb." But if the divorcing parents get along, if they provide their child with the other psychological nutrients he needs, then even an orchid child can do just fine. Most people would appreciate the flexibility of this message, I think; few of us had problem-free childhoods. But there's another kind of flexibility that we all

hope applies to the question of who we are and what we become. We want the freedom to map our own destinies. We want to preserve the advantageous aspects of our temperaments and improve, or even discard, the ones we dislike—such as a horror of public speaking. In addition to our inborn temperaments,

draw of our childhood experience, we want to believe that we—as adults—can shape our selves and make what we will of our lives.

Can we?

beyond the luck of the

BEYOND TEMPERAMENT

The Role of Free Will (and the Secret of Public Speaking for Introverts)

Enjoyment appears at the boundary between boredom and anxiety, when the challenges are just balanced with the person's capacity to act.

Deep inside the bowels of

the Athinoula A. Martinos Center for Biomedical Imaging at Massachusetts General Hospital, the hallways are nondescript, dingy even. I'm standing outside the locked door of a windowless room with

Dr. Carl Schwartz, the director the of **Developmental Neuroimaging** and Psychopathology Research Lab. Schwartz has bright, inquisitive eyes, graying brown hair, and a quietly enthusiastic manner. Despite 011r unprepossessing surroundings, he prepares with some fanfare

unlock the door. The room houses a multimillion-dollar fMRI magnetic (functional imaging) resonance machine, which has made possible some of the greatest breakthroughs in modern neuroscience. An fMRI machine can measure which parts of the brain are active when you're thinking a particular thought or performing a specific task, allowing scientists to perform the once unimaginable task of mapping the functions of the human brain. A principal inventor of the fMRI technique, says Dr. Schwartz, was a brilliant but unassuming scientist named Kenneth Kwong, who works inside this very building. This whole place

is full of quiet and modest people doing extraordinary things, Schwartz adds, waving his hand appreciatively at the empty hallway. Before Schwartz opens the door, he asks me to take off my gold hoop earrings and set aside the metal tape recorder I've been using to record our conversation.

magnetic field of the fMRI machine is 100,000 times stronger than the earth's gravitational pull—so strong, Schwartz says, that it could rip the earrings right out of my ears if they were magnetic and send them flying across the room. I worry about the metal fasteners of my bra, but I'm too embarrassed to ask. I point instead to my

shoe buckle, which I figure has the same amount of metal as the bra strap. Schwartz says it's all right, and we enter the room. We gaze reverently at the fMRI scanner, which looks like a gleaming rocketship lying on its side. Schwartz explains that he asks his subjects who are in their late teens —to lie down with their

heads in the scanner while they look at photographs of faces and the machine tracks how their brains respond. He's especially interested in activity in the same amygdala—the powerful organ inside the brain that Kagan found played such an important role in shaping some introverts' and extroverts' personalities.

Schwartz is Kagan's colleague and protégé, and his work picks up just where Kagan's longitudinal studies of personality left off. The infants Kagan once categorized as highand low-reactive have now grown up, and Schwartz is using the fMRI machine to peer inside their brains. Kagan followed his subjects from infancy into

adolescence, but Schwartz wanted to see what happened to them after that. Would the footprint of temperament be detectable, all those years later, in the adult brains of Kagan's high- and lowreactive infants? Or would it have been erased by some combination of environment and conscious effort?

Interestingly, Kagan Schwartz cautioned against doing the study. In the competitive field of science research, you don't want to waste time conducting studies that may not yield significant findings. And Kagan worried that there were no results to be found—that the link between temperament and destiny

would be severed by the time an infant reached adulthood. "He was trying to take care of me," Schwartz tells me. "It was an interesting paradox. Because here Jerry was doing all these early observations of infants, and seeing that it wasn't just their social behavior that was different in the extremeseverything about these kids was different. Their eyes dilated more widely when they were solving problems, their vocal cords became more tense while uttering words, their heart rate patterns were unique: there were all these channels that suggested there was something different physiologically about these kids. And I

think, in spite of this, because of his intellectual heritage, he had the feeling that environmental factors are so complex that it would be really hard to pick up that footprint of temperament later in life." But Schwartz, who believes that he's a highreactive himself and was drawing partly on his own experience, had a hunch

that he'd find that footprint even farther along the longitudinal timeline than Kagan had. He demonstrates his research by allowing me to act as if I were one of his subjects, albeit not inside the fMRI scanner. As I sit at a desk, a computer monitor flashes photos at me, one after another, each showing an

unfamiliar face: disembodied black-andwhite heads floating against a dark background. I think I can feel my pulse quicken as the photos start coming at me faster and faster. I also notice that Schwartz has slipped in some repeats and that I feel more relaxed as the faces start to look familiar. I describe my reactions to

Schwartz, who nods. The slide show is designed, he says, to mimic an environment that corresponds to the sense that high-reactive people get when they walk into a crowded room of strangers and feel "Geez! Who are these people?" I wonder if I'm imagining my reactions, or exaggerating them, but

Schwartz tells me that he's gotten back the first set of data on a group of highreactive children Kagan studied from four months of age—and sure enough, the amygdalae of those children, now grown up, had turned out to be more sensitive to the pictures of unfamiliar faces than did the amygdalae of those who'd been bold toddlers.

Both groups reacted to the pictures, but the formerly shy kids reacted more. In other words, the footprint of a high- or low-reactive temperament never disappeared in adulthood. Some high-reactives grew into socially fluid teenagers who were not outwardly rattled by novelty, but they never shed their genetic

inheritance. Schwartz's research suggests something important: we can stretch our personalities, but only up to a point. Our inborn temperaments influence us, regardless of the lives we lead. A sizable part of who we are is ordained by our genes, by our brains, by our nervous systems. And yet the elasticity that

Schwartz found in some of the high-reactive teens also suggests the converse: we have free will and can use it to shape our personalities. These seem like contradictory principles, but they are not. Free will can take us far, suggests Dr. Schwartz's research, but it cannot carry us infinitely beyond our

genetic limits. Bill Gates is never going to be Bill Clinton, no matter how he polishes his social skills, and Bill Clinton can never be Bill Gates, no matter how much time he spends alone with a computer. We might call this the "rubber band theory" of personality. We are like rubber bands at rest. We are elastic and can stretch

ourselves, but only so much.

might be so for highreactives, it helps to look at what happens in the brain when we greet a stranger at a cocktail

party. Remember that the

To understand why this

amygdala, and the limbic system of which it's a key part, is an ancient part of the brain—so old that primitive mammals have their own versions of this system. But as mammals became more complex, an area of the brain called the neocortex developed around the limbic system. The neocortex, and particularly the frontal

cortex in humans, performs an astonishing array of functions, from deciding which brand of toothpaste to buy, to planning a meeting, to pondering the nature of reality. One of these functions is to soothe unwarranted fears. If you were a highreactive baby, then your amygdala may, for the rest

of your life, go a bit wild every time you introduce yourself to a stranger at a cocktail party. But if you feel relatively skilled in company, that's partly because your frontal cortex is there to tell you to calm down, extend a handshake, and smile. In fact, a recent fMRI study shows that when people use self-talk to reassess upsetting

situations, activity in their prefrontal cortex increases in an amount correlated with a decrease of activity in their amygdala. But the frontal cortex isn't all-powerful; doesn't switch the amygdala off altogether. In one study, scientists conditioned a rat to associate a certain sound with an electrical shock.

sound over and over again without administering the shock, until the rats lost their fear. But it turned out that this "unlearning" was not as complete as the scientists first thought. When they severed the connections neural between the rats' cortex

and amygdala, the rats

Then they played that

became afraid of the sound again. This was because the fear conditioning had been suppressed by the activity of the cortex, but was still present in the amygdala. In humans with unwarranted fears, like batophobia, or fear of heights, the same thing happens. Repeated trips to the top of the Empire State **Building**

extinguish the fear, but it may come roaring back during times of stress when the cortex has other things to do than soothe an excitable amygdala. This helps explain why many high-reactive kids retain some of the fearful of their aspects temperament all the way into adulthood, no matter much how

experience they acquire or free will they exercise. My colleague Sally is a good example of this phenomenon. Sally is a thoughtful and talented book editor, a selfdescribed shy introvert, and one of the most charming and articulate people I know. If you invite her to a party, and later ask your other guests whom they most enjoyed meeting, chances are they'll mention Sally. She's so sparkly, they'll tell you. So witty! So adorable! Sally is conscious of how well she comes across you can't be as appealing as she is without being aware of it. But that doesn't mean her amygdala knows it. When she arrives at a party, Sally hide behind the nearest couch—until prefrontal cortex takes over and she remembers a good what conversationalist she is. Even so, her amygdala, with its lifetime of stored associations between strangers and anxiety, sometimes prevails. Sally admits that sometimes she

often wishes she could

drives an hour to a party and then leaves five minutes after arriving. When I think of my own experiences in light of Schwartz's findings, I realize it's not true that I'm no longer shy; I've just learned to talk myself down from the ledge (thank you, prefrontal cortex!). By now I do it so automatically that I'm

hardly aware it's happening. When I talk with a stranger or a group of people, my smile is bright and my manner direct, but there's a split second that feels like I'm stepping onto a high wire. By now I've had so many thousands of social experiences that I've learned that the high wire a figment of my

imagination, or that I won't die if I fall. I reassure myself so instantaneously that I'm barely aware I'm doing it. But the reassurance process is still happening —and occasionally it doesn't work. The word that Kagan first used to describe high-reactive people was inhibited, and that's exactly how I still

feel at some dinner parties.

This ability to stretch ourselves—within limits applies to extroverts, too. One of my clients, Alison, is a business consultant, mother, and wife with the kind of extroverted personality—friendly,

forthright, perpetually on the go—that makes people describe her as a "force of nature." She has a happy marriage, two daughters she adores, and her own consulting firm that she built from scratch. She's rightly proud of what she's accomplished in life. But she hasn't always felt so satisfied. The year she graduated from high

school, she took a good look at herself and didn't like what she saw. Alison is extremely bright, but you couldn't see that from her high school transcript. She'd had her heart set on attending an Ivy League school, and had thrown that chance away. And she knew why. She'd spent high school socializing—Alison was

involved in practically extracurricular every activity her school had to offer—and that didn't leave much time for academics. Partly she blamed her parents, who were so proud of their daughter's social gifts that they hadn't insisted she study more. But mostly she blamed herself. As an adult, Alison is

determined not to make similar mistakes. knows how easy it would be to lose herself in a whirl of PTA meetings and business networking. So Alison's solution is to look to her family for adaptive strategies. She happens to be the only child of two introverted parents, to be married to an introvert, and to have a younger

daughter who is a strong introvert herself. Alison has found ways to tap into the wavelength of the quiet types around her. When she visits her parents, she finds herself meditating and writing in her journal, just the way her mother does. At home she relishes peaceful evenings with her

homebody husband. And

her younger daughter, who enjoys intimate backyard talks with her mother, has Alison spending her afternoons engaged in thoughtful conversation. Alison has even created a network of quiet, reflective friends. Although her best friend in the world, Amy, is a highly charged extrovert just like her, most of her other

friends are introverts. "I so appreciate people who listen well," says Alison. "They are the friends I go have coffee with. They give me the most spot-on observations. Sometimes I haven't even realized I was something doing counterproductive, and my introverted friends will say, 'Here's what you're doing, and here are fifteen

examples of when you did that same thing,' whereas my friend Amy wouldn't even notice. But my introverted friends are sitting back and observing, and we can really connect over that." Alison remains her boisterous self, but she has also discovered how to be, and to benefit from, quiet.

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Even though we can reach for the outer limits of our temperaments, it can often be better to situate ourselves squarely inside

our comfort zones.

Consider the story of my client Esther, a tax lawyer at a large corporate law firm. A tiny brunette with a springy step and blue

eyes as bright as headlamps, Esther was not shy and never had been. But she was decidedly introverted. Her favorite part of the day was the quiet ten minutes when she walked to the bus along the tree-lined streets of her neighborhood. Her second favorite part was when she got to close the door to her office and dig into her work. Esther had chosen her well. career mathematician's daughter, she loved to think about intimidatingly complex tax problems, and could discuss them with ease. (In chapter 7, I examine why introverts are so good at complex, focused problemsolving.) She was the youngest member of a

close-knit working group operating inside a much larger law firm. This group comprised five other tax lawyers, all of whom supported one another's careers. Esther's work consisted of thinking deeply about questions that fascinated her and working closely with trusted colleagues. But it happened that Esther's small group of tax lawyers periodically had to give presentations to the rest of the law firm. These talks were a source of misery for Esther, not because she was afraid of public speaking, but because she wasn't comfortable speaking extemporaneously. Esther's colleagues, in contrast—all of whom happened to be

spontaneous talkers who decided what they'd say on their way to the presentation and were somehow able to convey their thoughts intelligibly and engagingly by the time they arrived. Esther was fine if given a chance to prepare, but sometimes her colleagues failed to mention that

extroverts—were

they'd be delivering a talk until she arrived at work that morning. She assumed that their ability to speak improvisationally was a function of their superior understanding of tax law and that, as she gained more experience, she too would be able to "wing it." But as Esther became more senior and more knowledgeable, she still

couldn't do it. To solve Esther's problem, let's focus on another difference between introverts and extroverts: their preference for stimulation. For several decades, beginning in the late 1960s, an influential research psychologist named Hans Eysenck hypothesized that human beings seek "just right" levels of stimulation—not too much and not too little. Stimulation is the amount of input we have coming in from the outside world. It can take any number of forms, from noise to social life to flashing lights. Eysenck believed that extroverts prefer more stimulation than introverts do, and

that this explained many of their differences: introverts enjoy shutting the doors to their offices and plunging into their work, because for them this sort of quiet intellectual activity is optimally stimulating, while extroverts function best when engaged in higher-wattage activities like organizing team-

building workshops or chairing meetings. Eysenck also thought that the basis of these differences might be found in a brain structure called the ascending reticular activating system (ARAS). The ARAS is a part of the brain stem that has connections leading up to the cerebral cortex and other parts of the brain. The brain has excitatory mechanisms that cause us to feel awake, alert, and energetic—"aroused," the parlance of psychologists. It also has calming mechanisms that do the opposite. Eysenck speculated that the ARAS regulates the balance between over- and underarousal by controlling the amount sensory

stimulation that flows into the brain; sometimes the channels are wide open, so a lot of stimulation can get in, and sometimes they're constricted, so the brain is less stimulated. Eysenck thought that the ARAS functioned differently in introverts and extroverts: introverts have wide-open information channels, causing them to be flooded with stimulation and overaroused, while extroverts have tighter channels, making them prone to Overunder-arousal. arousal doesn't produce anxiety so much as the sense that you can't think straight—that you've had enough and would like to go home now. Underarousal is something like cabin fever. Not enough is

restless, and sluggish, like you need to get out of the house already. Today we know that the reality is far more complex. For one thing, the ARAS doesn't turn stimulation on and off like

a fire truck's hose, flooding

the entire brain at once;

different parts of the brain

are aroused more than

happening: you feel itchy,

others at different times. Also, high arousal levels in the brain don't always correlate with how aroused we feel. And there are many different kinds of arousal: arousal by loud music is not the same as arousal by mortar fire, which is not the same as arousal by presiding at a meeting; you might be more sensitive to one form

of stimulation than to another. It's also too simple to say that we always seek moderate levels of arousal: excited fans at a soccer game crave hyperstimulation, while people who visit spas for relaxation treatments seek low levels. Still, more than a thousand studies conducted by scientists

worldwide have tested Eysenck's theory that cortical arousal levels are an important clue to the nature of introversion and extroversion, and it appears to be what the personality psychologist David Funder calls "halfright"—in very important ways. Whatever the underlying cause, there's a host of evidence that

introverts *are* more sensitive than extroverts to various kinds of stimulation, from coffee to a loud bang to the dull roar of a networking event —and that introverts and extroverts often need very different levels of stimulation to function at their best. In one well-known experiment, dating all the

way back to 1967 and still a favorite in-class demonstration psychology courses, Eysenck placed lemon juice on the tongues of adult introverts and extroverts to find out who salivated more. Sure enough, the introverts, being more aroused by sensory stimuli, were the ones with the watery

mouths. In another famous study, introverts and extroverts were asked to play a challenging word game in which they had to learn, through trial and error, the governing principle of the game. While playing, they

wore headphones that emitted random bursts of noise. They were asked to adjust the volume of their

headsets up or down to the level that was "just right." On average, the extroverts chose a noise level of 72 decibels, while the introverts selected only 55 decibels. When working at the volume that they had selected—loud for the extroverts, quiet for the introverts—the two types were about equally aroused (as measured by

indicators). They also played equally well.

When the introverts were asked to work at the noise level preferred by the extroverts, and vice versa everything changed.

their heart rates and other

versa, everything changed. Not only were the introverts over-aroused by the loud noise, but they also underperformed taking an average of 9.1

trials rather than 5.8 to learn the game. The opposite was true for the extroverts—they under-aroused (and possibly bored) by the quieter conditions, and took an average of 7.3 trials, compared with the 5.4 they'd averaged under noisier conditions.

When combined with Kagan's findings on high reactivity, this line of studies offers a very empowering lens through which to view your personality. Once you understand introversion and extroversion as preferences for certain levels of stimulation, you can begin consciously trying to situate yourself in

environments favorable to your own personality neither overstimulating understimulating, nor neither boring nor anxietymaking. You can organize your life in terms of what personality psychologists call "optimal levels of arousal" and what I call "sweet spots," and by doing so feel more energetic and alive than

before. Your sweet spot is the place where you're optimally stimulated. You probably seek it out already without being aware that you're doing so. Imagine that you're lying contentedly in a hammock reading a great novel. This is a sweet spot. But after half an hour you realize that you've read

the same sentence five times; now you're understimulated. So you call a friend and go out for brunch—in other words, you ratchet up your stimulation level—and as you laugh and gossip over blueberry pancakes, you're back, thank goodness, inside your sweet spot. But this agreeable state lasts only until your friend—an

extrovert who needs much more stimulation than you do—persuades you to accompany her to a block party, where you're now confronted by loud music and a sea of strangers. Your friend's neighbors seem affable enough, but you feel pressured to make small talk above the din of music. Now-bang, just like that—you've fallen

out of your sweet spot, except this time you're overstimulated. And you'll probably feel that way until you pair off with someone on the periphery of the party for an indepth conversation, or bow out altogether and return to your novel. Imagine how much better you'll be at this sweet-spot game once

you're aware of playing it. You can set up your work, your hobbies, and your social life so that you spend as much time inside your sweet spot as possible. People who are aware of their sweet spots have the power to leave jobs that exhaust them and start new and satisfying businesses. They can hunt for homes based on the

temperaments of their family members—with cozy window seats and other nooks and crannies for the introverts, and large, open living-dining spaces for the extroverts. Understanding your sweet spot can increase your satisfaction in every arena of your life, but it goes even further than that. Evidence suggests

that sweet spots can have life-or-death consequences. According to a recent study of military personnel conducted through the Walter Reed Army Institute of Research, introverts function better than extroverts when sleep deprived, which is cortically de-arousing condition (because losing sleep makes us less alert,

active, and energetic). Drowsy extroverts behind the wheel should be especially careful—at least until they increase their arousal levels by chugging coffee or cranking up the Conversely, radio. introverts driving in loud, overly arousing traffic noise should work to stay focused, since the noise may impair their thinking.

Now that we know about optimal levels of stimulation, Esther's problem—winging it at the podium—also makes Overarousal sense. interferes with attention and short-term memory key components of the ability to speak on the fly. And since public speaking an inherently is stimulating activity—even

for those, like Esther, who suffer no stage fright introverts can find their attention impaired just when they need it most. Esther could live to be a one-hundred-year-old lawyer, in other words, the knowledgeable most practitioner in her field, and she might never be comfortable speaking extemporaneously. She

find herself might perpetually unable, at speech time, to draw on the massive body of data sitting inside her long-term memory. But once Esther understands herself, she can insist to her colleagues that they give her advance notice of any speaking events. She can practice her speeches and find

herself well inside her sweet spot when finally she reaches the podium. She can prepare the same way for client meetings, networking events, even casual meetings with her colleagues—any situation of heightened intensity in which her short-term memory and the ability to think on her feet might be a little more compromised than usual.



Esther managed to solve her problem from the comfort of her sweet spot. Yet sometimes stretching

beyond it is our only choice. Some years ago I decided that I wanted to conquer my fear of public

speaking. After much hemming and hawing, I signed up for a workshop at the Public Speaking-Social Anxiety Center of New York. I had my doubts; I felt like a gardenvariety shy person, and I didn't like the pathological sound of the term "social anxiety." But the class was based on desensitization training, an approach that

made sense to me. Often used as a way to conquer phobias, desensitization involves exposing yourself (and your amygdala) to the thing you're afraid of over and over again, in manageable doses. This is very different from the well-meaning unhelpful advice that you should just jump in at the deep end and try to swim

—an approach that *might* work, but more likely will produce panic, further encoding in your brain a cycle of dread, fear, and shame. I found myself in good company. There were about fifteen people in the class, which was led by Charles di Cagno, a wiry, compact man with warm

brown eyes and

sophisticated sense of humor. Charles is himself a veteran of exposure therapy. Public speaking anxiety doesn't keep him up at night anymore, he says, but fear is a wily enemy and he's always working to get the better of it. The workshop had been in session for a few weeks before I joined, but Charles

assured me that newcomers were welcome. The group was more diverse than I expected. There was a fashion designer with long, curly hair, bright lipstick, and pointy snakeskin boots; a secretary with thick glasses and a clipped, matter-of-fact manner, who talked a lot about her Mensa membership;

couple of investment bankers, tall and athletic; an actor with black hair and vivid blue eyes who bounded cheerfully across the room in his Puma sneakers but claimed to be terrified the entire time; a Chinese software designer with a sweet smile and a nervous laugh. A regular cross-section of New Yorkers, really. It might photography or Italian cooking.

Except that it wasn't. Charles explained that each of us would speak in

have been a class in digital

front of the group, but at an anxiety level we could handle.

A martial arts instructor named Lateesha was first up that evening. Lateesha's

assignment was to read

aloud to the class from a Robert Frost poem. With her dreadlocks and wide smile, Lateesha looked as if she wasn't afraid of anything. But as she got ready to speak, her book propped open at the podium, Charles asked how anxious she was, on a scale of 1 to 10. "At least seven," said Lateesha.

"Take it slow," he said. "There are only a few people out there who can completely overcome their fears, and they all live in Tibet." Lateesha read the poem clearly and quietly, with only the slightest tremor in her voice. When she was

finished, Charles beamed proudly.

"Stand up please, Lisa,"

he said, addressing an attractive young marketing director with shiny black hair and a gleaming engagement ring. "It's your turn to offer feedback. Did Lateesha look nervous?" "No," said Lisa. "I was really scared, though," Lateesha said. "Don't worry, no one could tell," Lisa assured her.

heads vigorously. Couldn't tell at all, they echoed. Lateesha sat down, looking pleased.

Next it was my turn. I stood at a makeshift podium—really a music

The others nodded their

stand—and faced the group. The only sound in the room was the ticking of the ceiling fan and the blare of traffic outside. Charles asked me to introduce myself. I took a deep breath. "HELLOOO!!!!" shouted, hoping to sound dynamic. Charles looked alarmed. "Just be yourself," he said. My first exercise was simple. All I had to do was answer a few questions that people called out:

Where do you live? What

do you do for a living? What did you do this weekend? I answered the questions in my normal, soft-spoken way. The group listened carefully. "Does anyone have any more questions for Susan?" asked Charles. The group shook their heads. "Now, Dan," said Charles, nodding at a

strapping red-haired fellow who looked like one of those CNBC journalists reporting directly from the New York Stock Exchange, "you're a banker and you have tough standards. Tell me, did Susan look nervous?" "Not at all," said Dan. The rest of the group nodded. Not nervous at all, they murmured—just as

they had for Lateesha. You seem so outgoing, they added. You came across as really confident! You're lucky because you never run out of things to say. I sat down feeling pretty good about myself. But soon I saw that Lateesha and I weren't the only ones get that kind of

feedback. A few others did as well. "You looked so calm!" these speakers were told, to their visible relief. "No one would ever know if they didn't know! What are you doing in this class?" At first I wondered why I prized these reassurances so highly. Then I realized that I was attending the workshop because

wanted to stretch myself to the outer limits of my temperament. I wanted to be the best and bravest speaker I could be. The reassurances evidence that I was on my way toward achieving this goal. I suspected that the feedback I was getting was overly charitable, but I didn't care. What mattered was that I'd addressed an

audience that had received me well, and I felt good about the experience. I had begun to desensitize myself to the horrors of public speaking. Since then, I've done plenty of speaking, to groups of ten and crowds of hundreds. I've come to embrace the power of the podium. For me this involves taking specific

steps, including treating every speech as a creative project, so that when I get ready for the big day, I experience that delvingdeep sensation I enjoy so much. I also speak on topics that matter to me deeply, and have found that I feel much more centered when I truly care about my subject. This isn't always

possible, of course. Sometimes speakers need to talk about subjects that don't interest them much, especially at work. I believe this is harder for introverts, who have trouble projecting artificial enthusiasm. But there's a hidden advantage to this inflexibility: it can motivate us to make tough but worthwhile career

changes if we find ourselves compelled to speak too often about topics that leave us cold. There is no one more courageous than the person who speaks with the courage of his convictions.

"FRANKLIN WAS A
POLITICIAN, BUT
ELEANOR SPOKE OUT
OF CONSCIENCE"

Why Cool Is Overrated

A shy man no doubt dreads the notice of strangers, but can hardly be said to be afraid of them. He may be as bold as a hero in battle, and yet have no selfconfidence about trifles in the presence of strangers. —CHARLES DARWIN

Easter Sunday, 1939. The Lincoln Memorial. Marian

Anderson, one of the most extraordinary singers of her generation, takes the stage, the statue of the

sixteenth president rising up behind her. A regal woman with toffee-colored skin, she gazes at her audience of 75,000: men in brimmed hats, ladies in their Sunday best, a great sea of black and white faces. "My country 'tis of thee," she begins, her voice soaring, each word pure and distinct. "Sweet land of liberty." The crowd

is rapt and tearful. They never thought this day would come to pass. And it wouldn't have, without Eleanor Roosevelt. Earlier that year, Anderson had planned to sing at Constitution Hall in Washington, D.C., but the Daughters of the American Revolution, who owned the hall, rejected her because of her race.

Eleanor Roosevelt, whose family had fought in the Revolution, resigned from the DAR, helped arrange for Anderson to sing at the Lincoln Memorial—and a national ignited firestorm. Roosevelt was not the only one to protest, but she brought political clout to the issue, risking her own reputation in the process.

For Roosevelt, who seemed constitutionally unable to look away from other people's troubles, such acts of social conscience were nothing unusual. But others appreciated how remarkable they were. "This was something unique," recalled the African-American civil rights leader James Farmer

of Roosevelt's brave stand. "Franklin was a politician. He weighed the political consequences of every step that he took. He was a good politician, too. But Eleanor spoke out of conscience, and acted as a conscientious person. That was different." It was a role she played throughout their life together: Franklin's

adviser, Franklin's conscience. He may have chosen her for just this reason; in other ways they were such an unlikely pair. They met when he was twenty. Franklin was her distant cousin, a sheltered Harvard senior from an upper-crust family. Eleanor was only nineteen, also from a moneyed clan, but she had chosen to immerse herself in the sufferings of the poor, despite her family's disapproval. As a volunteer at a settlement house on Manhattan's impoverished Lower East Side, she had met children who were forced to sew artificial flowers in windowless factories to the point of exhaustion. She took Franklin with her one

day. He couldn't believe that human beings lived in such miserable conditions —or that a young woman of his own class had been the one to open his eyes to this side of America. He promptly fell in love with her. But Eleanor wasn't the light, witty type he'd been expected to marry. Just the opposite: she was slow

to laugh, bored by small talk, serious-minded, shy. Her mother, a fine-boned, vivacious aristocrat, had nicknamed her "Granny" because of her demeanor. Her father, the charming and popular younger brother of Theodore Roosevelt, doted on her when he saw her, but he was drunk most of the time, and died when

Eleanor was nine. By the time Eleanor met Franklin, she couldn't believe that someone like him would be interested in her. Franklin was everything that she was not: bold and buoyant, with a wide, irrepressible grin, as easy with people as she was cautious. "He was young and gay and good looking," Eleanor recalled, "and I was shy

and awkward and thrilled when he asked me to dance." At the same time, many told Eleanor that Franklin wasn't good enough for her. Some saw him as a

lightweight, a mediocre scholar, a frivolous manabout-town. And however poor Eleanor's own selfimage, she did not lack for admirers who appreciated

her gravitas. Some of her suitors wrote grudging letters of congratulations to Franklin when he won her hand. "I have more respect and admiration for Eleanor than any girl I have ever met," one letterwriter said. "You are mighty lucky. Your future wife is such as it is the privilege of few men to have," said another.

But public opinion was beside the point for Franklin and Eleanor. Each had strengths that the craved—her other empathy, his bravado. "E is an Angel," Franklin wrote in his journal. When she accepted his marriage proposal in 1903, he proclaimed himself the happiest man alive. She responded with a flood of

love letters. They were married in 1905 and went on to have six children. Despite the excitement of their courtship, their differences caused trouble from the start. Eleanor craved intimacy and weighty conversations; he loved parties, flirting, and gossip. The man who would declare that he had nothing to fear but fear

itself could not understand his wife's struggles with shyness. When Franklin was appointed assistant secretary of the navy in 1913, the pace of his social life grew ever more frenzied and the settings more gilded—elite private clubs, his Harvard friends' mansions. He caroused later and later into the night. Eleanor went home

earlier and earlier. In the meantime, Eleanor found herself with a full calendar of social duties. She was expected to pay visits to the wives of other Washington luminaries, leaving calling cards at their doors and holding open houses in her own home. She didn't relish this role, so she hired a social secretary

named Lucy Mercer to help her. Which seemed a good idea—until the summer of 1917, when Eleanor took the children to Maine for the summer, leaving Franklin behind in Washington with Mercer. The two began a lifelong affair. Lucy was just the kind of lively beauty Franklin had been expected to marry in the

first place. Eleanor found out about Franklin's betrayal when she stumbled on a packet of love letters in his suitcase. She was devastated, but stayed in the marriage. And although they never rekindled the romantic side of their relationship, she and Franklin replaced it with something

formidable: a union of his confidence with her conscience.

Fast-forward to our own time, where we'll meet another woman of similar temperament, acting out of her own sense of

conscience. Dr. Elaine

psychologist who, since her first scientific publication in 1997, has singlehandedly reframed what Jerome Kagan and others call high reactivity (and sometimes "negativity" "inhibition"). She calls it "sensitivity," and along with her new name for the transformed trait. she's

Aron is a research

and deepened our understanding of it. When I hear that Aron will be the keynote speaker at an annual weekend gathering of "highly sensitive people" at Walker Creek Ranch in Marin County, California, I quickly buy plane tickets. Jacquelyn Strickland, a psychotherapist and the founder and host of the

event, explains that she created these weekends so that sensitive people could benefit from being in one another's presence. She sends me an agenda explaining that we'll be sleeping in rooms designated for "napping, journaling, puttering, meditating, organizing, writing, and reflecting." "Please do socialize very

quietly in your room (with consent of your roommate), or preferably in the group areas on walks and at mealtimes," says the agenda. The conference is geared to people who enjoy meaningful discussions and sometimes "move a conversation to a deeper level, only to find out we are the only ones there."

There will be plenty of time for serious talk this weekend, we're assured. But we'll also be free to come and go as we please. Strickland knows that most of us will have weathered a lifetime of mandatory group activities, and she wants to show us a different model, if only for a few days. Walker Creek Ranch sits

on 1,741 acres of unspoiled Northern California wilderness. It offers hiking trails and wildlife and vast crystalline skies, but at its center is a cozy, barnlike conference center where about thirty of us gather on a Thursday afternoon in the middle of June. The Buckeye Lodge is outfitted with grey industrial

carpets, large whiteboards, and picture windows overlooking sunny redwood forests. Alongside the usual piles of registration forms and name badges, there's a flip chart where we're asked to write our name and Myers-Briggs personality type. I scan the list. Everyone's an introvert except for Strickland, who is warm,

welcoming, and expressive. (According to Aron's research, the majority, though not all, of sensitive people are introverts.) The tables and chairs in the room are organized in a big square so that we can sit and face one another. Strickland invites us—participation optional —to share what brought us

here. A software engineer named Tom kicks off, describing with great passion his relief at learning that there was "a physiological basis for the trait of sensitivity. Here's the research! This is how I am! I don't have to try to anyone's meet expectations anymore. I don't need to feel apologetic or defensive in

any way." With his long, narrow face, brown hair, and matching beard, Tom reminds me of Abraham Lincoln. He introduces his wife, who talks about how compatible she and Tom are, and how together they stumbled across Aron's work. When it's my turn, I talk about how I've never been in a group environment in

which I didn't feel obliged to present an unnaturally rah-rah version of myself. I say that I'm interested in the connection between introversion and sensitivity. Many people nod. On Saturday morning, Dr. Aron appears in the Buckeye Lodge. She waits playfully behind an easel containing a flip chart while Strickland introduces her to the audience. Then she emerges smiling—ta-da! from behind the easel, sensibly clad in a blazer, turtleneck, and corduroy skirt. She has short, feathery brown hair and warm, crinkly blue eyes that look as if they don't miss a thing. You can see immediately the dignified

scholar Aron is today, as well as the awkward schoolgirl she must once have been. You can see, too, her respect for her audience. Getting right down to business, she informs us that she has five different subtopics she can discuss, and asks us to raise our hands to vote for our first, second, and third choice of subjects. Then she performs, rapid-fire, an elaborate mathematical calculation from which she determines the three subtopics for which we've collectively voted. The crowd settles down amiably. It doesn't really matter which subtopics we've chosen; we know that Aron is here to talk about sensitivity, and that she's taking our preferences into consideration. psychologists Some make their mark by doing research นทนรนลโ experiments. Aron's contribution is to think differently, radically differently, about studies that others have done. When she was a girl, Aron was often told that she was

"too sensitive for her own good." She had two hardy elder siblings and was the only child in her family who liked to daydream, and play inside, and whose feelings were easily hurt. As she grew older and ventured outside her orbit, she family's continued to notice things about herself that seemed different from the norm.

She could drive alone for hours and never turn on the radio. She had strong, sometimes disturbing dreams at night. She was "strangely intense," and often beset by powerful emotions, both positive and negative. She had trouble finding the sacred in the everyday; it seemed to be there only when she withdrew from the world.

Aron grew up, became a psychologist, and married a robust man who loved these qualities. To her husband, Art, Aron was creative, intuitive, and a deep thinker. She appreciated these things in herself, too, but saw them as "acceptable surface manifestations of a terrible, hidden flaw I had been aware of all my life."

She thought it was a miracle that Art loved her in spite of this flaw. But when one of her fellow psychologists casually described Aron as "highly sensitive," lightbulb went on in her head. It was as if these two words described her mysterious failing, except that the psychologist hadn't been referring to a

flaw at all. It had been a neutral description. Aron pondered this new insight, and then set out to research this trait called "sensitivity." She came up mostly dry, so she pored over the vast literature on which introversion, seemed to be intimately related: Kagan's work on high-reactive children, and the long line of

experiments on the tendency of introverts to be more sensitive to social and sensory stimulation. These studies gave her glimpses of what she was looking for, but Aron thought that there was a missing piece in the emerging portrait of introverted people. "The problem for scientists is that we try to

observe behavior, and these are things that you cannot observe," she explains. Scientists can easily report on the behavior of extroverts, who can often be found laughing, talking, or gesticulating. But "if a person is standing in the corner of a room, you can attribute about fifteen motivations to that person.

But you don't really know what's going on inside." Yet inner behavior was still behavior, thought Aron, even if it was difficult to catalog. So what is the inner behavior of people whose most visible feature is that when you take them to a party they aren't very pleased about it? She decided to find out.

First Aron interviewed thirty-nine people who described themselves as being either introverted or easily overwhelmed by stimulation. She asked them about the movies they liked, their first memories, relationships with parents, friendships, love lives, creative activities, philosophical and religious views. Based

on these interviews, she created a voluminous questionnaire that she gave to several large groups of people. Then she boiled their responses down to a constellation of twenty-seven attributes. She named the people who embodied these attributes "highly sensitive." Some of these twentyseven attributes were

familiar from Kagan and others' work. For example, highly sensitive people tend to be keen observers who look before they leap. They arrange their lives in ways that limit surprises. They're often sensitive to sights, sounds, smells, pain, coffee. They have difficulty when being observed (at work, say, or performing at a music

recital) or judged for general worthiness (dating, job interviews). But there were also new insights. The highly sensitive tend to be philosophical or spiritual in their orientation, rather than materialistic or hedonistic. They dislike small talk. They often describe themselves as creative or intuitive (just

as Aron's husband had described her). They dream vividly, and can often recall their dreams the next day. They love music, nature, art, physical beauty. They feel exceptionally strong emotions—sometimes acute bouts of joy, but also sorrow, melancholy, and fear. Highly sensitive people also process information about their environments —both physical and emotional—unusually deeply. They tend to notice subtleties that miss—another others person's shift in mood, say, or a lightbulb burning a touch too brightly. Recently a group of scientists at Stony Brook University tested this

finding by showing two pairs of photos (of a fence and some bales of hay) to eighteen people lying inside fMRI machines. In one pair the photos were noticeably different from each other, and in the other pair the difference was much more subtle. For each pair, the scientists asked whether the second photo was the same as the

first. They found that sensitive people spent more time than others looking at the photos with the subtle differences. Their brains also showed more activity in regions that help to make associations between those images and other stored information. In other words, the sensitive people were processing the photos

than their peers, reflecting more on those fenceposts and haystacks.

This study is very new, and its conclusions still need to be replicated and

at a more elaborate level

explored in other contexts.
But it echoes Jerome
Kagan's findings that highreactive first graders spend
more time than other
children comparing

choices when they play matching games or reading unfamiliar words. And it suggests, says Jadzia Jagiellowicz, the lead scientist at Stony Brook, that sensitive types think in an unusually complex fashion. It may also help explain why they're so bored by small talk. "If you're thinking in more complicated ways," she

told me, "then talking about the weather or where you went for the holidays is not quite as interesting as talking about values or morality." The other thing Aron found about sensitive people is that sometimes they're highly empathic. It's as if they have thinner boundaries separating them from other people's

emotions and from the tragedies and cruelties of the world. They tend to have unusually strong consciences. They avoid violent movies and TV shows; they're acutely aware of the consequences of a lapse in their own behavior. In social settings they often focus on subjects like personal problems, which others

consider "too heavy." Aron realized that she was on to something big. Many of the characteristics of sensitive people that she'd identified—such as empathy and responsiveness to beauty believed by psychologists be characteristic of other personality traits like "agreeableness" and

"openness to experience." But Aron saw that they were also a fundamental part of sensitivity. Her findings implicitly challenged accepted tenets of personality psychology. She started publishing her results in academic journals and books, and speaking publicly about her work. At first this was difficult. Audience

members told her that her ideas were fascinating, but that her uncertain delivery was distracting. But Aron had a great desire to get her message out. She persevered, and learned to speak like the authority she was. By the time I saw her at Walker Creek Ranch, she was practiced, crisp, and sure. The only difference between her and

your typical speaker was how conscientious she seemed about answering every last audience question. She lingered afterward with the group, even though, as an extreme introvert, she must have been itching to get home. Aron's description of highly sensitive people sounds as if she's talking

about Eleanor Roosevelt herself. Indeed, in the years since Aron first published her findings, scientists have found that when you put people whose genetic profiles have been tentatively associated with sensitivity and introversion (people with the gene variant of 5-HTTLPR that characterized the rhesus monkeys of chapter 3) inside an fMRI machine and show them pictures of scared faces, accident victims, mutilated bodies, and polluted scenery, the amygdala the part of the brain that plays such an important role in processing emotions—becomes strongly activated. Aron and a team of scientists have also found that when

strong feelings, they have more activation than others do in areas of the brain associated with empathy and with trying to control strong emotions. It's as if, like Eleanor Roosevelt, they can't help but feel what others feel.

sensitive people see faces

of people experiencing

In 1921, FDR contracted polio. It was a terrible blow, and he considered retiring to the country to live out his life as an invalid gentleman. But Eleanor kept his contacts with the Democratic Party alive while he recovered, even agreeing to address a party fund-raiser. She was terrified of public speaking, and not much

good at it—she had a highpitched voice and laughed nervously at all the wrong times. But she trained for the event and made her way through the speech. After that, Eleanor was still unsure of herself, but she began working to fix the social problems she saw all around her. She became a champion of women's issues and forged

alliances with other serious-minded people. By 1928, when FDR was elected governor of New York, she was the director of the Bureau of Women's Activities for the Democratic Party and one of the most influential women in American politics. She and Franklin were now a fully functioning partnership of his savoir faire and her social conscience. "I knew about social conditions, perhaps more than he did," Eleanor recalled with characteristic modesty. "But he knew about government and how you could use government to improve things. And I think we began to get an understanding teamwork."

FDR was elected president in 1933. It was the height of the Depression, and Eleanor traveled the country—in a single three-month period she covered 40,000 miles —listening to ordinary people tell their hard-luck stories. People opened up to her in ways they didn't for other powerful figures. She became for Franklin

the voice of the dispossessed. When she returned home from her trips, she often told him what she'd seen and pressed him to act. She orchestrate helped government programs for half-starved miners in Appalachia. She urged FDR to include women and African-Americans in his programs to put people

back to work. And she helped arrange for Marian Anderson to sing at the Lincoln Memorial. "She kept at him on issues which he might, in the rush of things, have wanted to overlook," the historian Geoff Ward has said. "She kept him to a high standard. Anyone who ever saw her lock eyes with him and say,

'Now Franklin, you should ...' never forgot it."

The shy young woman who'd been terrified of

public speaking grew to love public life. Eleanor Roosevelt became the first First Lady to hold a press conference, address a

national convention, write a newspaper column, and appear on talk radio. Later in her career she served as

a U.S. delegate to the United Nations, where she used her unusual brand of political skills and hardwon toughness to help win passage of the Universal Declaration of Human Rights. She never did outgrow her vulnerability; all her life she suffered dark "Griselda moods," as she called them (named for a

princess in a medieval legend who withdrew into silence), and struggled to "develop skin as tough as rhinoceros hide." "I think people who are shy remain shy always, but they learn how to overcome it," she said. But it was perhaps this sensitivity that made it easy for her to relate to the disenfranchised, and conscientious enough to

sure he knew how suffering Americans felt. The connection between sensitivity and conscience

act on their behalf. FDR,

elected at the start of the

Depression, is remembered

for his compassion. But it

was Eleanor who made

has long been observed. Imagine the following experiment, performed by developmental the psychologist Grazyna Kochanska. A kind woman hands a toy to a toddler, explaining that the child should be very careful because it's one of the woman's favorites. The child solemnly nods assent and begins to play with breaks dramatically in two, having been rigged to do so. The woman looks upset

the toy. Soon afterward, it

and cries, "Oh my!" Then she waits to see what the child does next.

Some children, it turns out, feel a lot more guilty

out, feel a lot more guilty about their (supposed) transgression than others. They look away, hug

themselves, stammer out confessions, hide their faces. And it's the kids we might call the most sensitive, the most highreactive, the ones who are likely to be introverts who feel the guiltiest. Being unusually sensitive to all experience, both positive and negative, they seem to feel both the sorrow of the woman whose toy

broken and the anxiety of having done something bad. (In case you're wondering, the woman in the experiments quickly returned to the room with the toy "fixed" and reassurances that the child had done nothing wrong.) In our culture, guilt is a tainted word, but it's probably one of the building blocks of

conscience. The anxiety these highly sensitive toddlers feel upon apparently breaking the toy gives them the to avoid motivation harming someone's plaything the next time. By age four, according to Kochanska, these same kids are less likely than their peers to cheat or break rules, even when they think they can't be caught. And by six or seven, they're more likely to be described by their parents as having high levels of moral traits such as empathy. They also have fewer behavioral problems in general. "Functional, moderate guilt," writes Kochanska, "may promote future personal altruism,

responsibility, adaptive behavior in school, and harmonious, competent, and prosocial relationships with parents, teachers, and friends." This is an especially important set of attributes at a time when a 2010 University of Michigan study shows that college students today are 40 percent less empathetic than they were thirty years

ago, with much of the drop having occurred since 2000. (The study's authors speculate that the decline in empathy is related to the prevalence of social media, reality TV, and "hyper-competitiveness.") Of course, having these traits doesn't mean that sensitive children are angels. They have selfish streaks like everyone else.

Sometimes they act aloof and unfriendly. And when they're overwhelmed by negative emotions like shame or anxiety, says Aron, they can be positively oblivious of other people's needs. But the same receptivity to experience that can make life difficult for the highly sensitive also builds their consciences. Aron

tells of one sensitive teen who persuaded his mother to feed a homeless person he'd met in the park, and of another eight-year-old who cried not only when she felt embarrassed, but also when her peers were teased. We know this type of well from person probably literature, because so many writers

are sensitive introverts themselves. He "had gone through life with one skin fewer than most men," the novelist Eric Malpass writes of his quiet and cerebral protagonist, also an author, in the novel The Long Long Dances. "The troubles of others moved him more, as did also the teeming beauty of life: moved him, compelled

him, to seize a pen and write about them. [He was moved by] walking in the hills, listening to a Schubert impromptu, watching nightly from his armchair the smashing of bone and flesh that made up so much of the nine o'clock news." The description of such characters as thin-skinned is meant metaphorically,

but it turns out that it's actually quite literal. the tests Among researchers use to measure personality traits are skin conductance tests, which record how much people sweat in response to noises, strong emotions, and other stimuli. Highreactive introverts sweat low-reactive more; extroverts sweat less. Their

skin is literally "thicker," more impervious to stimuli, cooler to the touch. In fact, according to some of the scientists I spoke to, this is where our notion of being socially "cool" comes from; the lower-reactive you are, the cooler your skin, the cooler you are. (Incidentally, sociopaths lie at the extreme end of

this coolness barometer, with extremely low levels arousal, skin of conductance, and anxiety. There is some evidence that sociopaths have damaged amygdalae.) detectors Lie (polygraphs) are partially skin conductance tests. They operate on the theory that lying causes anxiety, which triggers the skin to

perspire imperceptibly. When I was in college, I applied for a summer job as a secretary at a large jewelry company. I had to take a lie detector test as part of the application process. The test was administered in a small, dingily lit room with linoleum floors, by a thin, cigarette-puffing man with pocked yellow skin. The

man asked me a series of warm-up questions: my name, address, and so on, to establish my baseline level of skin conductance. Then the questions grew more probing and the examiner's manner harsher. Had I been arrested? Had I ever shoplifted? Had I used cocaine? With this last question my interrogator

peered at me intently. As it happens, I never had tried cocaine. But he seemed to think I had. The accusing look on his face was the equivalent of the old policeman's trick where they tell the suspect that they have the damning evidence and there's no point denying it. I knew the man was mistaken, but I still felt

myself blush. And sure enough, the test came back showing I'd lied on the cocaine question. My skin is so thin, apparently, that it sweats in response to imaginary crimes! We tend to think of coolness as a pose that you strike with a pair of sunglasses, a nonchalant attitude, and drink in hand. But maybe we didn't

choose these social accessories at random. Maybe we've adopted dark glasses, relaxed body language, and alcohol as signifiers precisely because they camouflage signs of a nervous system on overdrive. Sunglasses prevent others from seeing our eyes dilate with surprise or fear; we know from Kagan's work that a

relaxed torso is a hallmark of low reactivity; and alcohol removes our inhibitions and lowers our arousal levels. When you go to a football game and someone offers you a beer, says the personality psychologist Brian Little, "they're really saying hi, glass of have a extroversion." **Teenagers** understand

instinctively the physiology of cool. In Curtis Sittenfeld's novel Prep, which explores the adolescent social rituals of boarding-school life with uncanny precision, the protagonist, Lee, is invited unexpectedly to the dorm room of Aspeth, the coolest girl in school. The first thing she notices is how physically stimulating

Aspeth's world is. "From outside the door, I could hear pounding music," she observes. "White Christmas lights, currently turned on, were taped high up along all the walls, and on the north wall they'd hung an enormous orange and green tapestry.... I felt overstimulated and vaguely irritated. The room I shared with [my

roommate] seemed so quiet and plain, our lives seemed so quiet and plain. Had Aspeth been born cool, I wondered, or had someone taught her, like an older sister or a cousin?" Jock cultures sense the low-reactive physiology of cool, too. For the early U.S. astronauts, having a low heart rate, which is

associated with low reactivity, was a status symbol. Lieutenant Colonel John Glenn, who became the first American to orbit the Earth and would later run for president, was admired by his comrades for his supercool pulse rate during liftoff (only 110 beats per minute).

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But physical lack of cool may be more socially valuable than we think. That deep blush when a

hard-bitten tester puts his face an inch from yours and asks if you've ever used cocaine turns out to be a kind of social glue. In a recent experiment, a team of psychologists led

by Corine Dijk asked sixtyodd participants to read accounts of people who'd done something morally wrong, like driving away from a car crash, or something embarrassing, like spilling coffee on someone. The participants were shown photographs of the wrongdoers, who had one of four different facial expressions: shame

or embarrassment (head and eyes down); shame/embarrassment plus a blush; neutral; or neutral with a blush. Then they were asked to rate how sympathetic and trustworthy the transgressors were. It turned out that the offenders who blushed were judged a lot more positively than those who

didn't. This was because the blush signified concern for others. As Dacher Keltner, a psychologist at the University of California, Berkeley, who specializes in positive emotions, put it to the New York Times, "A blush comes online in two or three seconds and says, 'I care; I know I violated the social contract.' "

In fact, the very thing that many high-reactives hate most about blushing —its uncontrollability—is what makes it so socially useful. "Because it is impossible to control the blush intentionally," Dijk speculates, blushing is an authentic sign of And embarrassment. embarrassment, according to Keltner, is a moral

emotion. It shows humility, modesty, and a desire to avoid aggression and make peace. It's not about isolating the person who feels ashamed (which is how it sometimes feels to easy blushers), but about bringing people together. Keltner has tracked the of human roots embarrassment and found

that after many primates fight, they try to make up. They do this partly by making gestures of embarrassment of the kind we see in humans looking away, which acknowledges wrongdoing and the intention to stop; lowering the head, which shrinks one's size; and pressing the lips together, a sign of inhibition. These

gestures in humans have been called "acts of devotion," writes Keltner. Indeed, Keltner, who is trained in reading people's faces, has studied photos of moral heroes like Gandhi and the Dalai Lama and found that they feature just such controlled smiles and averted eyes. In his book, Born to Be Good, Keltner even says

that if he had to choose his mate by asking a single question at a speed-dating event, the question he would choose is: "What was your last embarrassing experience?" Then he watch very would carefully for lip-presses, blushing, and averted eyes. "The elements of the embarrassment are fleeting statements the individual

makes about his or her respect for the judgment of others," he writes. "Embarrassment reveals how much the individual cares about the rules that bind us to one another." In other words, you want to make sure that your spouse cares what other people think. It's better to mind too much than to mind too little.

No matter how great the

benefits of blushing, the phenomenon of high sensitivity raises an obvious question. How did the highly sensitive manage to survive the harsh sorting-out process

of evolution? If the bold and aggressive generally prevail (as it sometimes

seems), why were the sensitive not selected out of the human population thousands of years ago, like tree frogs colored orange? For you may, like the protagonist of The Long Long Dances, be moved more deeply than the next person by the opening chords of a Schubert impromptu, and you may flinch more than others at

the smashing of bone and flesh, and you may have been the sort of child who squirmed horribly when you thought you'd broken someone's toy, but evolution doesn't reward such things. Or does it? Elaine Aron has an idea about this. She believes that high sensitivity was not itself selected for, but rather the careful, reflective style that tends to accompany it. "The type that is 'sensitive' or 'reactive' would reflect a strategy of observing carefully before acting," she writes, "thus avoiding dangers, failures, and wasted energy, which would require a nervous system specially designed to observe and detect

subtle differences. It is a strategy of 'betting on a sure thing' or 'looking before you leap.' In contrast, the active strategy of the [other type] is to be first, without complete information and with the attendant risks the strategy of 'taking a long shot' because the 'early bird catches the worm' and 'opportunity

only knocks once." In truth, many people Aron considers sensitive have some of the twentyseven attributes associated with the trait, but not all of them. Maybe they're sensitive to light and noise, but not to coffee or pain; maybe they're not sensitive to anything sensory, but they're deep thinkers with a rich inner

life. Maybe they're not even introverts—only 70 percent of sensitive people are, according to Aron, while the other 30 percent are extroverts (although this group tends to report craving more downtime and solitude than your typical extrovert). This, speculates Aron, is because sensitivity arose as a byproduct of survival

strategy, and you need only some, not all, of the traits to pull off the strategy effectively. There's a great deal of evidence for Aron's point of view. Evolutionary biologists once believed that every animal species evolved to fit an ecological niche, that there was one ideal set of behaviors for that niche, and that

species members whose behavior deviated from that ideal would die off. But it turns out that it's not only humans that divide into those who "watch and wait" and others who "just do it." More than a hundred species in the animal kingdom are organized in roughly this way. From fruit flies to house

cats to mountain goats, from sunfish to bushbaby primates to Eurasian tit birds, scientists have discovered that approximately 20 percent of the members of many species are "slow to warm up," while the other 80 percent are "fast" types who venture forth boldly without noticing much of what's going on around

them. (Intriguingly, the percentage of infants in Kagan's lab who were born high-reactive was also, you'll recall, about twenty.) If "fast" and "slow" animals had parties, writes the evolutionary biologist David Sloan Wilson, "some of the fasts would bore everyone with their loud conversation, while others

would mutter into their beer that they don't get any respect. Slow animals are best described as shy, sensitive types. They don't assert themselves, but they are observant and notice things that are invisible to the bullies. They are the writers and artists at the party who have interesting conversations out of earshot of the bullies. They

are the inventors who figure out new ways to behave, while the bullies steal their patents by copying their behavior." Once in a while, a newspaper or TV program runs a story about animal personalities, casting shy behavior as unseemly and bold behavior as attractive and admirable. (That's our kind of fruit fly!) But

Wilson, like Aron, believes that both types of animals exist because they have radically different survival strategies, each of which pays off differently and at different times. This is what's known as the tradeoff theory of evolution, in which a particular trait is neither all good nor all bad, but a mix of pros and cons whose survival value varies according to circumstance. "Shy" animals forage less often and widely for food, conserving energy, sticking to the sidelines, and surviving when predators come calling. Bolder animals sally forth, swallowed regularly by those farther up the food chain but surviving when food is scarce and they

When Wilson dropped metal traps into a pond full of pumpkinseed fish, an event he says must have seemed to the fish as unsettling as a flying saucer landing on Earth, the bold fish couldn't help investigate—and hut rushed headlong into Wilson's traps. The shy fish hovered judiciously at the

need to assume more risk.

edge of the pond, making it impossible for Wilson to catch them. On the other hand, after Wilson succeeded in trapping both types of fish with an elaborate netting

system and carrying them back to his lab, the bold fish acclimated quickly to their new environment and started eating a full five days earlier than did their

shy brethren. "There is no single best ... [animal] personality," writes Wilson, "but rather a diversity of personalities maintained by natural selection." Another example of the trade-off theory of evolution is a species known as Trinidadian guppies. These guppies develop personalities—

with astonishing speed, in evolutionary terms—to suit the microclimates in which they live. Their natural predators are pike. some guppy But neighborhoods, upstream of a waterfall for example, are pike-free. If you're a guppy who grew up in such a charmed locale, then chances are you have a bold and carefree

personality well suited to la dolce vita. In contrast, if your guppy family came from neighborhood" downstream from the waterfall, where pike cruise the waterways menacingly, then you probably have a much more circumspect style, just right for avoiding the bad guys.

The interesting thing is that these differences are heritable, not learned, so that the offspring of bold guppies who move into bad neighborhoods inherit their parents' boldness even though this puts them at a severe disadvantage compared to their vigilant peers. It doesn't take long for their genes to mutate, though,

and descendants who manage to survive tend to be careful types. The same thing happens to vigilant guppies when the pike suddenly disappear; it takes about twenty years for their descendants to evolve into fish who act as if they haven't a care in the world.

The trade-off theory seems to apply equally to humans. Scientists have found that nomads who inherited the form of a particular gene linked to extroversion (specifically, to novelty-seeking) are better nourished than those without this version of the gene. But in settled populations, people with this same gene form have

poorer nutrition. The same traits that make a nomad fierce enough to hunt and to defend livestock against raiders may hinder more sedentary activities like farming, selling goods at the market, or focusing at school. Or consider this tradeoff: human extroverts have more sex partners than introverts do-a boon to

any species wanting to reproduce itself—but they commit more adultery and divorce more frequently, which is not a good thing for the children of all those Extroverts couplings. exercise more, but introverts suffer fewer accidents and traumatic injuries. Extroverts enjoy wider networks of social support, but commit more

crimes. As Jung speculated almost a century ago about the two types, "the one [extroversion] consists in a high rate of fertility, with low powers of defense and short duration of life for the single individual; the [introversion] other consists in equipping the individual with numerous means of self-preservation plus a low fertility rate."

The trade-off theory may even apply to entire species. **Among** evolutionary biologists, who tend to subscribe to the vision of lone individuals hell-bent on reproducing their own DNA, the idea that species include individuals whose traits promote group survival is hotly debated and, not long ago, could

out of the academy. But this view is slowly gaining acceptance. scientists even speculate that the evolutionary basis for traits like sensitivity is heightened compassion for the suffering of other members of one's species, especially one's family. But you don't have to go that far. As Aron explains,

practically get you kicked

groups depend on their sensitive members for survival. "Suppose a herd of antelope ... has a few members who are constantly stopping their grazing to use their keen senses to watch for predators," she writes. "Herds with such sensitive, individuals watchful would survive better, and

it makes sense that animal

so continue to breed, and so continue to have some sensitive individuals born in the group." And why should it be any different for humans? We need our Eleanor Roosevelts as surely as grazing herds depend on their sensitive antelopes. In addition to "shy" and "bold" animals, and to "fast" and "slow" ones, biologists sometimes speak of the "hawk" and "dove" members of a given species. Great tit birds, for example, some of whom are much more aggressive than others, often act like case studies in an international relations class. These birds feed on beech tree nuts, and in years when nuts are scarce, the hawkish female

birds do better, just as you'd expect, because they're quick to challenge nut-eating competitors to a duel. But in seasons when there are plenty of beech nuts to go around, the female "doves"—who. incidentally, tend to make more attentive mothers do better than the "hawks," because the hawks waste time and

bodily health getting into fights for no good reason. Male great tits, on the other hand, have the opposite pattern. This is because their main role in life is not to find food but to defend territory. In years when food is scarce, so many of their fellow tit birds die of hunger that there's enough space for all. The hawkish males

then fall into the same trap as their female comrades during nutty seasons—they squandering brawl, precious resources with each bloody battle. But in good years, when competition for nesting territory heats up, aggression pays for the hawkish male tit bird.

During times of war or fear —the human equivalent of a bad nut season for female tit birds—it might seem that what we need most are aggressive heroic types. But if our entire population consisted of warriors, there would be no one to notice, let alone battle, potentially deadly but far quieter threats like viral disease or climate

change. Consider Vice President Al Gore's decades-long crusade to raise awareness of global warming. Gore is, by many accounts, an introvert. "If you send an introvert into a reception or an event with a hundred other people he will emerge with less energy than he had going in," says a former aide.

"Gore needs a rest after an event." Gore acknowledges that his skills are not conducive to stumping and speechmaking. "Most people in politics draw energy from backslapping and shaking hands and all that," he has said. "I draw energy from discussing ideas." But combine that passion for thought with

attention to subtlety—both common characteristics of introverts—and you get a very powerful mix. In 1968, when Gore was a college student at Harvard, he took a class with an influential oceanographer who presented early evidence linking the burning of fossil fuels with the greenhouse effect. Gore's ears perked up.

He tried to tell others what he knew. But he found that people wouldn't listen. It was as if they couldn't hear the alarm bells that rang so loudly in his ears. "When I went to Congress in the middle of the 1970s, I helped organize the first hearings on global warming," he recalls in the Oscar-

winning movie *An* Inconvenient Truth—a film whose most stirring action scenes involve the solitary figure of Gore wheeling his suitcase through midnight airport. Gore seems genuinely puzzled that no one paid attention: "I actually thought and believed that the story would be compelling enough to cause a real sea change in the way Congress reacted to that issue. I thought they would be startled, too. And they weren't." But if Gore had known then what we know now about Kagan's research, and Aron's, he might have been less surprised by his colleagues' reactions. He might even have used his insight into personality

psychology to get them to listen. Congress, he could have safely assumed, is made up of some of the least sensitive people in the country—people who, if they'd been kids in one of Kagan's experiments, would have marched up to oddly attired clowns and strange ladies wearing gas masks without so much as a backward glance at their

mothers. Remember Kagan's introverted Tom and extroverted Ralph? Well, Congress is full of Ralphs—it was designed for people like Ralph. Most of the Toms of the world do not want to spend their days planning campaigns and schmoozing with lobbyists. These Ralph-like Congressmen

wonderful people fearless, exuberant, persuasive—but they're unlikely to feel alarmed by a photograph of a tiny crack in a distant glacier. They need more intense stimulation to get them to listen. Which is why Gore finally got his message across when he teamed up with whiz-bang Hollywood types who could package

his warning into the special-effects-laden show that became An Inconvenient Truth. Gore also drew on his own strengths, using his natural focus and diligence to tirelessly promote the movie. He visited dozens of movie theaters across the country to meet with viewers, and gave innumerable TV and radio

interviews. On the subject of global warming, Gore has a clarity of voice that eluded him as a politician. For Gore, immersing himself in a complicated scientific puzzle comes naturally. Focusing on a single passion rather than tap dancing from subject to subject comes naturally. Even talking to crowds comes naturally when the

topic is climate change: Gore on global warming has an easy charisma and connection with audience members that eluded him as a political candidate. That's because this mission, for him, is not about politics or personality. It's about the call of his conscience. "It's about the survival of the planet," he says. "Nobody

is going to care who won or lost any election when earth the uninhabitable." If you're a sensitive sort, then you may be in the habit of pretending to be more of a politician and less cautious or singlemindedly focused than you actually are. But in this chapter I'm asking you to rethink this view. Without people like you, we will, quite literally, drown.

~

Back here at Walker Creek Ranch and the gathering for sensitive people, the Extrovert Ideal and its

primacy of cool is turned upside down. If "cool" is low reactivity that

predisposes a person to boldness or nonchalance, then the crowd that has come to meet Elaine Aron is deeply uncool. The atmosphere startling simply because it's so unusual. It's something you might find at a yoga class or in a Buddhist monastery, except that here there's no unifying religion

worldview, only a shared temperament. It's easy to see this when Aron delivers her speech. She has long observed that when she speaks to groups of highly sensitive people the room is more hushed and respectful than would be usual in a public gathering place, and this is true throughout her presentation. But it carries

over all weekend. I've never heard many "after you's" and "thank you's" as I do here. During meals, which are held at long communal tables in a summer-camp style, open-air cafeteria, people plunge hungrily searching into conversations. There's a lot of one-on-one discussion about intimate topics like childhood experiences and adult love lives, and social issues like health care and climate change; there's not much in the way of storytelling intended to entertain. People listen carefully to each other and respond thoughtfully; Aron has noted that sensitive people tend to speak softly because that's how they prefer others

communicate with them. "In the rest of the world," observes Michelle, a web designer who leans forward as if bracing herself against an imaginary blast of wind, "you make a statement and people may or may not discuss it. Here you make a statement and someone says, 'What does that mean?' And if you ask else, they actually answer." It's not that there's no small talk, observes Strickland, the leader of the gathering. It's that it comes not at the beginning of conversations but at the end. In most settings, people use small talk as a way of relaxing into a new

relationship, and only once

that question of someone

they're comfortable do they connect more seriously. Sensitive people seem to do the reverse. They "enjoy small talk only after they've gone deep," says Strickland. "When sensitive people are in environments that nurture their authenticity, they laugh and chitchat just as much as anyone else."

On the first night we drift to our bedrooms, housed in a dormlike building. I brace myself instinctively: now's the time when I'll want to read or sleep, but will instead be called upon to have a pillow fight (summer camp) or play a loud and boring drinking game (college). But at Walker Creek Ranch, my

roommate, a twenty-sevenyear-old secretary with huge, doe-like eyes and the ambition to become an author, is happy to spend the evening writing peacefully in her journal. I do the same. Of course, the weekend is not completely without tension. Some people are reserved to the point of appearing sullen.

Sometimes the do-yourown-thing policy threatens to devolve into mutual loneliness as everyone goes their own separate ways. In fact, there is such a deficit of the social behavior we call "cool" that I begin thinking someone should be cracking jokes, stirring things up, handing out rum-and-Cokes. Shouldn't

they? The truth is, as much as I crave breathing room for sensitive types, I enjoy hail-fellows-well-met, too. I'm glad for the "cool" among us, and I miss them this weekend. I'm starting to speak so softly that I feel like I'm putting myself to sleep. I wonder if deep down the others feel this way, too.

Tom, the software engineer and Abraham Lincoln look-alike, tells me of a former girlfriend who was always throwing open the doors of her house to friends and strangers. She was adventurous in every way: she loved new food, new sexual experiences, new people. It didn't work out between them-Tom eventually craved the

company of a partner who would focus more on their relationship and less on the outside world, and he's happily married now to just such a woman—but he's glad for the time with his ex-girlfriend. As Tom talks, I think of how much I miss my husband, Ken, who's back home in New York and not a sensitive type either, far

from it. Sometimes this is frustrating: if something moves me to tears of empathy or anxiety, he'll be touched, but grow impatient if I stay that way too long. But I also know that his tougher attitude is good for me, and I find his endlessly company delightful. I love his effortless charm. I love that he never runs out of

interesting things to say. I love how he pours his heart and soul into everything he does, and everyone he loves, especially our family. But most of all I love his way of expressing compassion. Ken may be aggressive, aggressive in a week than I'll be in a lifetime, but he uses it on behalf of others.

Before we met, he worked for the UN in war zones all over the world, where, among other things, he conducted prisoner-of-war and detainee release negotiations. He would march into fetid jails and face down camp commanders with machine guns strapped to their chests until they agreed to release young girls who'd committed no crime other than to be female and victims of rape. After many years on the job, he went home and wrote down what he'd witnessed, in books and articles that bristled with rage. He didn't write in the style of a sensitive person, and he made a lot of people angry. But he wrote like a who cares, person

desperately. I thought that Walker Creek Ranch would make me long for a world of the highly sensitive, a world in which everyone speaks softly and no one carries a big stick. But instead it reinforced my deeper yearning for balance. This balance, I think, is what Elaine Aron would say is our natural state of being,

at least in Indo-European cultures like ours, which she observes have long been divided into "warrior kings" and "priestly advisers," into the executive branch and the judicial branch, into bold and easy FDRs and sensitive, conscientious Eleanor Roosevelts.

7 WHY DID WALL STREET CRASH AND WARREN BUFFETT PROSPER?

How Introverts and Extroverts Think (and Process Dopamine) Differently

Tocqueville saw that the life of constant action and

decision which was entailed by the democratic and businesslike character of American life put a premium upon rough and ready habits of mind, quick decision, and the prompt seizure of opportunities—and that all this activity was not propitious for deliberation, elaboration, or precision in thought.

—RICHARD HOFSTADTER, IN

Anti-Intellectualism in

America

Just after 7:30 a.m. on December 11, 2008, the year of the great stock market crash, Dr. Janice Dorn's phone rang. The markets had opened on the East Coast to another session of carnage. Housing prices were credit plummeting, markets were frozen, and GM teetered on the brink of bankruptcy.

Dorn took the call from her bedroom, as she often does, wearing a headset and perched atop her green duvet. The room was decorated sparely. The most colorful thing in it was Dorn herself, who, with her flowing red hair, ivory skin, and trim frame, looks like a mature version of Lady Godiva. Dorn has a PhD in neuroscience, with

a specialty in brain anatomy. She's also an MD trained in psychiatry, an active trader in the gold futures market, and a "financial psychiatrist" who has counseled an estimated six hundred traders. "Hi, Janice!" said the caller that morning, a confident-sounding man named Alan. "Do you have time to talk?" Dr. Dorn did not have time. A day trader who prides herself on being in and out of trading positions every half hour, she was eager to start trading. But Dorn heard a desperate note in Alan's voice. She agreed to take the call. Alan was a sixty-yearold midwesterner who

struck Dorn as a salt-ofthe-earth type, hardworking and loyal. He had the jovial and assertive manner of an extrovert, and he maintained his good cheer despite the story of disaster he proceeded to tell. Alan and his wife had worked all their lives, and managed to sock away a million dollars for

retirement. But four months earlier he'd gotten the idea that, despite having no experience in the markets, he should buy a hundred thousand dollars' worth of GM stock, based on reports that the U.S. government might bail out the auto industry. He was convinced it was a no-lose investment. After his trade went

through, the media reported that the bailout might not happen after all. The market sold off GM and the stock price fell. But Alan imagined the thrill of winning big. It felt so real he could taste it. He held firm. The stock fell again, and again, and kept dropping until finally Alan decided to sell, at a big loss.

There was worse to come. When the next news cycle suggested that the bailout would happen after all, Alan got excited all over again and invested another hundred thousand dollars, buying more stock at the lower price. But the same thing happened: the bailout started looking uncertain. Alan "reasoned"

word is in quotation marks because, according to Dorn, conscious reasoning had little to do with Alan's behavior) that the price couldn't go much lower. He held on, savoring the idea of how much fun he and his wife would have spending all the money he stood to make. Again the stock went lower. When finally it hit seven dollars

per share, Alan sold. And bought yet again, in a flush of exhilaration, when he heard that the bailout might happen after all ... By the time GM's stock price fell to two dollars a share, Alan had lost seven hundred thousand dollars, or 70 percent of his family nest egg. He was devastated. He asked Dorn if she could

help recoup his losses. She could not. "It's gone," she told him. "You are never going to make that money back." He asked what he'd done wrong. Dorn had many ideas about that. As an amateur, Alan shouldn't have been trading in the first place. And he'd risked far too much money; he should to 5 percent of his net worth, or \$50,000. But the biggest problem may have been beyond Alan's control: Dorn believed he was experiencing an excess of something psychologists call reward sensitivity. reward-sensitive person is highly motivated to seek rewards-from a promotion to a lottery

have limited his exposure

jackpot to an enjoyable evening out with friends. sensitivity Reward motivates us to pursue goals like sex and money, social status and influence. It prompts us to climb ladders and reach for faraway branches in order to gather life's choicest fruits. But sometimes we're too

to rewards.

sensitive

Reward sensitivity on overdrive gets people into all kinds of trouble. We can get so excited by the prospect of juicy prizes, like winning big in the stock market, that we take outsized risks and ignore obvious warning signals. Alan was presented with plenty of these signals, but was so animated by the prospect of winning big

Indeed, he fell into a classic pattern of reward sensitivity run amok: at exactly the moments when the warning signs suggested slowing down, he sped up—dumping money he couldn't afford

that he couldn't see them.

to lose into a speculative series of trades.

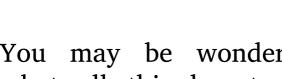
Financial history is full of examples of players

accelerating when they should be braking. **Behavioral** economists have long observed that buying executives companies can get so excited about beating out their competitors that they ignore signs that they're overpaying. This happens so frequently that it has a name: "deal fever," followed by "the winner's

curse." The AOL-Time Warner merger, which wiped out \$200 billion of Time Warner shareholder value, is a classic example. There were plenty of warnings that AOL's stock, which was the currency for the merger, was wildly overvalued, yet Time Warner's directors approved the deal unanimously.

"I did it with as much or more excitement and enthusiasm as I did when I first made love some fortytwo years ago," exclaimed Ted Turner, one of those directors and the largest individual shareholder in the company. "TED TURNER: IT'S BETTER THAN SEX," announced the New York Post the day after the deal was struck, a

headline to which we'll return for its power to explain why smart people can sometimes be too reward-sensitive.



You may be wondering what all this has to do with introversion and extroversion. Don't we all

get a little carried away sometimes? The answer is yes, except that some of us do so more than others. Dorn has observed that her extroverted clients are more likely to be highly reward-sensitive, while the introverts are more likely to pay attention to warning signals. They're successful more

regulating their feelings of desire or excitement. They protect themselves better from the downside. "My introvert traders are much more able to say, 'OK, Janice, I do feel these excited emotions coming up in me, but I understand that I can't act on them.' The introverts are much better at making a plan, staying with a plan, being very disciplined." To understand why introverts and extroverts might react differently to the prospect of rewards, says Dorn, you have to know a little about brain structure. As we saw in chapter 4, our limbic system, which we share with the most primitive mammals and which Dorn calls the "old brain,"

emotional and instinctive. It comprises various structures, including the amygdala, and it's highly interconnected with the accumbens, nucleus sometimes called the brain's "pleasure center." We examined the anxious side of the old brain when we explored the role of the amygdala in high reactivity and introversion.

Now we're about to see its greedy side. The old brain, according to Dorn, is constantly telling us, "Yes, yes, yes! Eat more, drink more, have more sex, take lots of risk, go for all the gusto you can get, and above all, do not think!" The rewardseeking, pleasure-loving

part of the old brain is

what Dorn believes

spurred Alan to treat his life savings like chips at the casino. We also have a "new brain" called the neocortex, which evolved many thousands of years after the limbic system. The new brain is responsible for thinking, planning, language, and

decision-making—some of

the very faculties that

make us human. Although the new brain also plays a significant role in our emotional lives, it's the seat of rationality. Its job, according to Dorn, includes saying, "No, no, no! Don't do that, because it's dangerous, makes no sense, and is not in your best interests, or those of your family, or of society." So where was Alan's

chasing stock market gains? The old brain and the new brain do work together, but not always efficiently. Sometimes they're actually in conflict, and then our decisions are a function of which one is sending out stronger signals. So when Alan's old

brain sent its breathless

neocortex when he was

messages up to his new brain, it probably responded as a neocortex should: it told his old brain to slow down. It said, Watch out! But it lost the ensuing tug-of-war. We all have old brains, of course. But just as the amygdala of a highreactive person is more sensitive than average to novelty, so do extroverts

seem to be more susceptible than introverts to the reward-seeking cravings of the old brain. In fact, some scientists are starting to explore the idea that reward-sensitivity is not only an interesting feature of extroversion; it is what makes an extrovert an extrovert. Extroverts, in other words, are characterized by their

tendency to seek rewards, from top dog status to sexual highs to cold cash. They've been found to have greater economic, political, and hedonistic ambitions than introverts; even their sociability is a function of rewardsensitivity, according to this view—extroverts socialize because human connection is inherently gratifying. What underlies all this reward-seeking? The key seems to be positive emotion. Extroverts tend to experience more pleasure and excitement than introverts doemotions that are activated, explains the psychologist Daniel Nettle in his illuminating book on personality, "in response

to the pursuit or capture of some resource that is valued. Excitement builds towards the anticipated capture of that resource. Joy follows its capture." Extroverts, in other words, often find themselves in an emotional state we might call "buzz"—a rush of energized, enthusiastic feelings. This is a sensation we all know and like, but

not necessarily to the same degree or with the same frequency: extroverts seem to get an extra buzz from the pursuit and attainment of their goals. The basis of buzz appears to be a high degree of activity in a network of structures in the brain—often called the system"— "reward

including the orbitofrontal

cortex, the nucleus accumbens, and the amygdala. The job of the reward system is to get us excited about potential goodies; fMRI experiments have shown that the system is activated by any number of possible delights, from anticipation of a squirt of Kool-Aid on the tongue, to money, to pictures of attractive

people. The neurons that transmit information in the reward network operate in through part a neurotransmitter—a chemical that carries information between brain cells—called dopamine. Dopamine is the "reward chemical" released in response to anticipated pleasures. The

dopamine, or the higher the level of dopamine you have available to release, some scientists believe, the more likely you are to go after rewards like sex, chocolate, money, and status. Stimulating midbrain dopamine activity in mice gets them to run around excitedly in an empty cage until they drop

responsive your brain is to

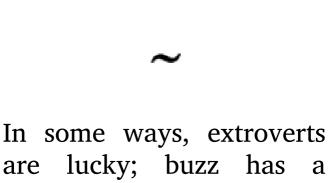
dead of starvation. Cocaine and heroin, which dopaminestimulate releasing neurons in humans, make people euphoric. Extroverts' dopamine pathways appear to be more active than those of introverts. Although the exact relationship between extroversion, dopamine, and the brain's reward

not been system has conclusively established, early findings have been intriguing. In one experiment, Richard Depue, a neurobiologist at Cornell University, gave an amphetamine that activates the dopamine group of system to a introverts and extroverts, and found that the extroverts had a stronger

response. Another study found that extroverts who win gambling games have more activity in the reward-sensitive regions of their brains than victorious introverts do. Still other research has shown that the medial orbitofrontal cortex, a key component of the brain's dopaminedriven reward system, is larger in extroverts than in

introverts. By contrast, introverts "have a smaller response" in the reward system, writes psychologist Nettle, "and so go less out of their way to follow up [reward] cues." They will, "like anyone, be drawn from time to time to sex, and parties, and status, but the kick they get will be relatively small, so they

are not going to break a leg to get there." In short, introverts just don't buzz as easily.



delightful champagne-

bubble quality. It fires us up to work and play hard. It gives us the courage to take chances. Buzz also gets us to do things that would otherwise seem too difficult, like giving speeches. Imagine you work hard to prepare a talk on a subject you care about. You get your message across, and when you finish the audience rises to its feet, its clapping sustained and

sincere. One person might leave the room feeling, "I'm glad I got my message across, but I'm also happy it's over; now I can get back to the rest of my life." Another person, more sensitive to buzz, might walk away feeling, "What a trip! Did you hear that applause? Did you see the expression on their faces when I made that life-changing point? This is great!" But buzz also has considerable downsides. "Everyone assumes that it's good to accentuate positive emotions, but that isn't correct," the psychology professor Richard Howard told me, pointing to the example of soccer victories that end in violence and property

"A lot damage. of antisocial and selfdefeating behavior results from people who amplify positive emotions." Another disadvantage of buzz may be its connection risk—sometimes to outsized risk. Buzz can cause us to ignore warning signs we should be heeding. When Ted Turner (who appears to be an

extrovert) extreme compared the AOL-Time Warner deal to his first sexual experience, he may have been telling us that he was in the same buzzy state of mind as an adolescent who's so excited about spending the night with his new girlfriend that he's not thinking much about the consequences. This

blindness to danger may explain why extroverts are more likely than introverts to be killed while driving, be hospitalized as a result of accident or injury, smoke, have risky sex, participate in high-risk sports, have affairs, and remarry. It also helps explain why extroverts are more prone than introverts overconfidence to

confidence unmatched by greater ability. Buzz is JFK's Camelot, but it's also the Kennedy Curse.

defined as greater



This theory of extroversion is still young, and it is not absolute. We can't say that all extroverts constantly crave rewards or that all introverts always brake for trouble. Still, the theory suggests that we should rethink the roles that introverts and extroverts play in their own lives, and in organizations. It suggests that when it comes time to make group decisions, extroverts would do well to listen to introverts—especially

when they see problems ahead. In the wake of the 2008 crash, a financial catastrophe caused in part by uncalculated risk-taking and blindness to threat, it

became fashionable to speculate whether we'd have been better off with more women and fewer men—or less testosterone—on Wall Street. But

maybe we should also ask what might have happened with a few more introverts at the helm—and a lot less dopamine. Several studies answer this question implicitly. Kellogg School of Management Professor Camelia Kuhnen has found that the variation of a dopamine-regulating gene (DRD4) associated with a

particularly thrill-seeking version of extroversion is a strong predictor of financial risk-taking. By contrast, people with a variant of a serotoninregulating gene linked to introversion and sensitivity take 28 percent less financial risk than others. They have also been found to outperform their peers when playing gambling

games calling for sophisticated decisionmaking. (When faced with a low probability of winning, people with this gene variant tend to be risk-averse; when they have a high probability of winning, they become relatively risk-seeking.) Another study, of sixtyfour traders at an investment bank, found

performing traders tended to be emotionally stable introverts. Introverts also seem to be better than extroverts at delaying gratification, a crucial life skill associated with everything from higher SAT scores and income to lower body mass index. In one study,

scientists gave participants

that the highest-

the choice of a small reward immediately (a gift certificate from Amazon) or a bigger gift certificate in two to four weeks. Objectively, the bigger reward in the near but not immediate future was the more desirable option. But many people went for the "I want it now" choiceand when they did, a brain scanner revealed that their

reward network was activated. Those who held out for the larger reward two weeks hence showed more activity in the prefrontal cortex—the part of the new brain that talks us out of sending illconsidered e-mails and eating too much chocolate cake. (A similar study suggests that the former group tended to be

extroverts and the latter group introverts.) Back in the 1990s, when I was a junior associate at a Wall Street law firm, I found myself on a team of lawyers representing a bank considering buying a portfolio of subprime mortgage loans made by other lenders. My job was to perform due diligence review to

whether the loans had been made with the proper paperwork. Had the borrowers been notified of the interest rates they were slated to pay? That the rates would go up over time? The papers turned out to be chock-full irregularities. If I'd been in the bankers' shoes, this

documentation to see

would have made me nervous, very nervous. But when our legal team summarized the risks in a caution-filled conference call, the bankers seemed utterly untroubled. They saw the potential profits of buying those loans at a discount, and they wanted to go ahead with the deal. Yet it was just this kind of risk-reward miscalculation

failure of many banks during the Great Recession of 2008. At about the same time I evaluated that portfolio of loans, I heard a story circulating on Wall Street about a competition among investment banks for a prestigious piece of

business. Each of the

major banks sent a squad

that contributed to the

of their top employees to pitch the client. Each team deployed the usual tools: spread sheets, "pitch books," and PowerPoint presentations. But the winning team added its own piece of theatrics: they ran into the room wearing matching baseball caps and T-shirts emblazoned with the letters FUD, an acronym

for Fear, Uncertainty, and Doubt. In this case FUD had been crossed out with an emphatic red X; FUD was an unholy trinity. That team, the vanquishers of FUD, won the contest. Disdain for FUD—and for the type of person who tends to experience it—is what helped cause the crash, says Boykin Curry, a managing director of the

investment firm Eagle Capital, who had front-row seats to the 2008 meltdown. Too much power was concentrated in the hands of aggressive risk-takers. "For twenty years, the DNA of nearly every financial ... morphed institution dangerously," he told Newsweek magazine at the height of the crash. "Each time someone at the table pressed for more leverage and more risk, the next few years proved them 'right.' These people were emboldened, they were promoted and they gained control of ever more Meanwhile, capital. anyone in power who hesitated, who argued for was proved caution, 'wrong.' The cautious

types were increasingly intimidated, passed over for promotion. They lost their hold on capital. This happened every day in almost every financial institution, over and over, until we ended up with a very specific kind of person running things." Curry is a Harvard Business School grad and, with his wife, Celerie

Kemble, a Palm Beachborn designer, a prominent fixture on New York political and social scenes. Which is to say that he would seem to be a cardcarrying member of what he calls the "go-go aggressive" crowd, and an unlikely advocate for the importance of introverts. But one thing he's not shy about is his thesis that it was forceful extroverts who caused the global financial crash. "People with certain personality types got control of capital and institutions and power," Curry told me. "And people who are congenitally more cautious and introverted and statistical in their thinking became discredited and

pushed aside." Vincent Kaminski, a Rice University business school professor who once served as managing director of research for Enron, the company that famously filed for bankruptcy in 2001 as a result of reckless business practices, told the Washington Post a similar story of a business culture in which aggressive risktakers enjoyed too high a status relative to cautious introverts. Kaminski, a soft-spoken and careful man, was one of the few heroes of the Enron scandal. He repeatedly tried to sound the alarm with senior management that the company had entered into business deals risky enough to threaten its survival. When the top brass wouldn't listen, he refused to sign off on these dangerous transactions and ordered his team not to work on them. The company stripped him of his power to review company-wide deals. "There have been some complaints, Vince, that you're not helping people to do transactions," the president of Enron told

him, according to Conspiracy of Fools, a book about the Enron scandal. "Instead, you're spending all your time acting like cops. We don't need cops, Vince." But they did need them, and still do. When the credit crisis threatened the viability of some of Wall Street's biggest banks in 2007, Kaminski saw the

same thing happening all over again. "Let's just say that all the demons of Enron have not been exorcised," he told the *Post* in November of that year. The problem, he explained, was not only that many had failed to understand the risks the banks were taking. It was also that those who did understand

consistently ignored—in part because they had the wrong personality style: "Many times I have been sitting across the table from an energy trader and I would say, 'Your portfolio will implode if this specific situation happens.' And the trader would start yelling at me and telling me I'm an idiot, that such a situation would

never happen. The problem is that, on one side, you have a rainmaker who is making lots of money for the company and is treated like a superstar, and on the other side you have an introverted nerd. So who do you think wins?"

But what exactly is the mechanism by which buzz clouds good judgment? How did Janice Dorn's client, Alan, dismiss the danger signs screaming that he might lose 70 percent of his life savings? What prompts some people to act as if FUD doesn't exist? One answer comes from an intriguing line

University of Wisconsin psychologist Joseph Newman. Imagine that you've been invited to Newman's lab to participate in one of his studies. You're there to play a game: the more points you get, the more money you win. Twelve different numbers flash across a computer screen,

research conducted by the

one at a time, in no particular order. You're given a button, as if you were a game-show contestant, which you can press or not as each number appears. If you press the button for a "good" number, you win points; if you press for a "bad" number, you lose points; and if you don't press at all, nothing

happens. Through trial and error you learn that four is a nice number and nine is not. So the next time the number nine flashes across your screen, you know not to press that button. Except that sometimes people press the button for the bad numbers, even when they should know Extroverts, better.

especially highly impulsive

extroverts, are more likely than introverts to make this mistake. Why? Well, in the words of psychologists John Brebner and Chris Cooper, who have shown that extroverts think less and act faster on such tasks: introverts are "geared to inspect" and extroverts "geared to respond." But the more interesting

aspect of this puzzling behavior is not what the extroverts do before they've hit the wrong button, but what they do after. When introverts hit the number nine button and find they've lost a point, they slow down before moving on to the next number, as if to reflect on what went wrong. But extroverts not

they actually speed up. This seems strange; why would anyone do this? Newman explains that it makes perfect sense. If you focus on achieving your goals, as reward-sensitive extroverts do, you don't want anything to get in way—neither vour naysayers nor the number

nine. You speed up in an

only fail to slow down,

roadblocks down.

Yet this is a crucially important misstep, because the longer you pause to process surprising or negative feedback, the more likely you are to

attempt to knock these

more likely you are to learn from it. If you force extroverts to pause, says Newman, they'll do just as well as introverts at the numbers game. But, left to

their own devices, they don't stop. And so they don't learn to avoid the trouble staring them in the face. Newman says that this is exactly what might happen to extroverts like Ted Turner when bidding for a company on auction. "When a person bids up too high," he told me, "that's because they didn't inhibit a response they

should have inhibited. They didn't consider information that should have been weighing on their decision." Introverts, in contrast, constitutionally are programmed to downplay reward—to kill their buzz, you might say—and scan for problems. "As soon they get excited," says Newman, "they'll put the brakes on and think about peripheral issues that may be more important. Introverts seem to be specifically wired or trained so when they catch themselves getting excited and focused on a goal, their vigilance increases." Introverts also tend to compare new information with their expectations, he says. They ask themselves,

"Is this what I thought would happen? Is it how it should be?" And when the situation falls short of expectations, they form associations between the moment of disappointment (losing points) and whatever was going on in their environment at the time of the disappointment (hitting the number nine.) These associations let them

make accurate predictions about how to react to warning signals in the future.

Introverts' disinclination to charge ahead is not only a hedge against risk; it also

pays off on intellectual

tasks. Here are some of the

things we know about the relative performance of introverts and extroverts at complex problem-solving. Extroverts get better grades than introverts during elementary school, but introverts outperform extroverts in high school and college. At the university level, introversion predicts performance academic

better than cognitive ability. One study tested 141 college students' knowledge of twenty different subjects, from art to astronomy to statistics, and found that introverts knew more than the extroverts about every single one of them. **Introverts** receive disproportionate numbers of graduate degrees,

National Merit Scholarship finalist positions, and Phi Beta Kappa keys. They outperform extroverts on the Watson-Glaser Critical Thinking Appraisal test, an assessment of critical thinking widely used by businesses for hiring and promotion. They've been shown to excel at something psychologists call "insightful problem

solving." The question is: Why? Introverts are smarter than extroverts. According to IQ scores, the two types are equally intelligent. And on many kinds of tasks, particularly those performed under time or social pressure or involving multitasking, extroverts do better. Extroverts are better than

introverts at handling information overload. Introverts' reflectiveness uses up a lot of cognitive capacity, according to Joseph Newman. On any given task, he says, "if we have 100 percent cognitive capacity, an introvert may have only 75 percent on task and 25 percent off task, whereas an extrovert may have 90 percent on task." This is because most tasks are goal-directed. Extroverts appear to allocate most of their cognitive capacity to the goal at hand, while introverts use up capacity by monitoring how the task is going. But introverts seem to think more carefully than as extroverts, the psychologist Gerald

Matthews describes in his work. Extroverts are more likely to take a quick-anddirty approach to problemsolving, trading accuracy for speed, making increasing numbers of mistakes as they go, and abandoning ship altogether when the problem too seems difficult or frustrating. Introverts think before

act, digest they information thoroughly, stay on task longer, give up less easily, and work more accurately. Introverts and extroverts also direct their attention differently: if you leave them to their own devices, the introverts tend to sit around wondering about things, imagining things, recalling events from their past, and

making plans for the future. The extroverts are more likely to focus on what's happening around them. It's as if extroverts are seeing "what is" while their introverted peers are asking "what if." Introverts' and extroverts' contrasting problem-solving styles have been observed in many different contexts. In

experiment, one psychologists gave fifty people a difficult jigsaw puzzle to solve, and found that the extroverts were more likely than the introverts to quit midway. In another, Professor Richard Howard gave introverts and extroverts a complicated series of printed mazes, and found not only that the introverts

tended to solve more mazes correctly, but also that they spent a much greater percentage of their allotted time inspecting the maze before entering it. A similar thing happened when groups of introverts and extroverts were given the Raven Standard Progressive Matrices, an intelligence test that consists of five sets of problems of increasing difficulty. The extroverts tended to do better on the first two sets, presumably because of their ability to orient quickly to their goal. But on the three more difficult sets, where persistence pays, the introverts significantly outperformed them. By the final, most complicated set, the extroverts were introverts to abandon the task altogether. Introverts sometimes outperform extroverts even on social tasks that require persistence. Wharton management professor Adam Grant (who conducted the leadership

studies described

chapter 2) once studied

the personality traits of

much more likely than the

effective call-center employees. Grant that the predicted extroverts would be better telemarketers, but it turned out that there was zero correlation between extroversion levels and cold-calling prowess. "The extroverts would make these wonderful calls," Grant told me, "but then a shiny object of

some kind would cross their paths and they'd lose focus." The introverts, in contrast, "would talk very quietly, but boom, boom, boom, they were making those calls. They were focused and determined." The only extroverts to outperform them were those who also happened to be unusually high scorers for a separate personality trait measuring conscientiousness.
Introvert persistence was more than a match for extrovert buzz, in other words, even at a task

where social skills might

be considered at a premium.

Persistence isn't very glamorous. If genius is one percent inspiration and ninety-nine percent

culture we tend to lionize the one percent. We love its flash and dazzle. But great power lies in the other ninety-nine percent. "It's not that I'm so smart," said Einstein, who a consummate was introvert. "It's that I stay with problems longer."

perspiration, then as a

None of this is to denigrate those who forge ahead quickly, or to blindly glorify the reflective and careful. The point is that we tend to overvalue buzz and discount the risks of reward-sensitivity: we need to find a balance between action and reflection. For example, if you were staffing an investment

bank, management professor Kuhnen told me, you'd want to hire not only reward-sensitive types, who are likely to profit from bull markets, but also those who remain emotionally more neutral. You'd want to make sure that important corporate decisions reflect the input of both kinds of people, not just one type. And

you'd want to know that individuals on all points of reward-sensitivity the spectrum understand their own emotional preferences and can temper them to match market conditions. But it's not just employers who benefit from taking a closer look at their employees. We also need to take a closer look at ourselves.

Understanding where we fall on the rewardsensitivity spectrum gives us the power to live our lives well. If you're a buzz-prone extrovert, then you're lucky to enjoy lots of invigorating emotions. Make the most of them: build things, inspire others, think big. Start a company, launch a

website, build an elaborate tree house for your kids. But also know that you're operating with an Achilles' heel that you must learn to protect. Train yourself to spend energy on what's truly meaningful to you instead of on activities that look like they'll deliver a quick buzz of money or status or excitement. Teach yourself to pause and reflect when warning signs appear that things aren't working out as you'd hoped. Learn from your mistakes. Seek out counterparts (from spouses to friends to business partners) who can help rein you in and compensate for your blind spots. And when it comes time to invest, or to do anything

that involves a sage balance of risk and reward, keep yourself in check. One good way to do this is to make sure that you're not surrounding yourself with images of reward at the crucial moment of decision. Kuhnen and Brian Knutson have found that men who are shown erotic pictures just before they gamble

take more risks than those shown neutral images like desks and chairs. This is because anticipating rewards—any rewards, whether or not related to the subject at hand excites our dopaminedriven reward networks and makes us act more rashly. (This may be the single best argument yet for banning pornography

from workplaces.) And if you're an introvert who's relatively immune to the excesses of reward sensitivity? At first blush, the research on dopamine and buzz seems to imply that extroverts, and extroverts alone, are happily motivated to work hard by the excitement they get from pursuing their goals. As an

introvert, I was puzzled by this idea when I first came across it. It didn't reflect my own experience. I'm in love with my work and always have been. I wake up in the morning excited to get started. So what drives people like me? One answer is that even if the reward-sensitivity theory of extroversion turns out to be correct, we can't say that all extroverts are always more sensitive to rewards and blasé about risk, or that all introverts are constantly unmoved by incentives and vigilant about threats. Since the days of Aristotle, philosophers have observed that these two modes—approaching things that appear to give pleasure and avoiding

others that seem to cause pain—lie at the heart of all human activity. As group, extroverts tend to be reward-seeking, but every human being has her own mix of approach and avoidance tendencies, and sometimes the differs combination on the depending situation. Indeed, many contemporary personality

psychologists would say that threat-vigilance is more characteristic of a known trait "neuroticism" than introversion. The body's reward and threat systems also seem to work independently of each other, so that the same person can be generally sensitive, or insensitive, to both reward and threat.

If you want to determine whether rewardyou are threatoriented, oriented, or both, try yourself asking whether the following groups of statements are true of you.

If you are rewardoriented:

When I get something I want, I feel

excited and energized.

When I want something, I usually go

all out to get it.

When I see an opportunity for something I like, I get excited right away.

When good things happen to me, it affects me strongly.

I have very few fears compared to

If you are threat-

my friends.

oriented:

Criticism or scolding hurts me quite a bit.

feel pretty worried or upset when I think or know somebody is angry at me.

If I think something unpleasant is

going to happen, I usually get pretty

"worked up."

[feel worried when I think I have done poorly at something important.

worry about making mistakes.

But I believe that another important explanation for introverts who love their work may come from a very different line of research by the influential psychologist Mihaly Csikszentmihalyi

on the state of being he

calls "flow." Flow is an

optimal state in which you feel totally engaged in an activity—whether longdistance swimming or songwriting, wrestling or sex. In a state of flow, you're neither bored nor anxious, and you don't question your own adequacy. Hours pass without your noticing. The key to flow is to pursue an activity for its own sake, not for the rewards it brings. Although flow does not depend on being an introvert or an extrovert, many of the flow experiences that Csikszentmihalyi writes about are solitary pursuits that have nothing to do reward-seeking: with reading, tending an orchard, solo ocean cruising. Flow often

occurs, he writes, in conditions in which people "become independent of the social environment to the degree that they no longer respond exclusively in terms of its rewards and punishments. To achieve such autonomy, a person has to learn to provide rewards to herself." In sense, Csikszentmihalyi

transcends Aristotle; he is telling us that there are some activities that are not about approach or avoidance, but about something deeper: the fulfillment that comes from absorption in an activity outside yourself. "Psychological theories usually assume that we are motivated either by the need to eliminate an

unpleasant condition like or fear," hunger Csikszentmihalyi writes, "or by the expectation of some future reward such as money, status, or prestige." But in flow, "a person could work around the clock for days on end, for no better reason than to keep on working." If you're an introvert, find your flow by using

your gifts. You have the power of persistence, the tenacity to solve complex problems, and the clearsightedness to avoid pitfalls that trip others up. You enjoy relative freedom from the temptations of superficial prizes like money and status. Indeed, your biggest challenge may be to fully harness your strengths. You may

be so busy trying to appear like a zestful, rewardsensitive extrovert that you undervalue your own feel talents, or underestimated by those around you. But when you're focused on a project that you care about, you probably find that your energy is boundless. So stay true to your own nature. If you like to do

things in a slow and steady way, don't let others make you feel as if you have to race. If you enjoy depth, don't force yourself to seek breadth. If you prefer single-tasking multitasking, stick to your guns. Being relatively unmoved by rewards gives you the incalculable power to go your own way. It's up to you to use that

independence good to effect. Of course, that isn't always easy. While writing chapter, I this corresponded with Jack Welch, the former chairman of General Electric. He had just published a BusinessWeek online column called "Release Your Inner Extrovert," in which he

called for introverts to act more extroverted on the job. I suggested that extroverts sometimes need to act more introverted, too, and shared with him some of the ideas you've just read about how Wall Street might have benefited from having more introverts at the helm. Welch was intrigued. But, he said,

"the extroverts would argue that they never heard from the introverts." Welch makes a fair point. Introverts need to trust their gut and share their ideas as powerfully as they can. This does not mean aping extroverts; ideas can be shared quietly, they can be communicated in writing, they can be packaged into

highly produced lectures, they can be advanced by allies. The trick for introverts is to honor their own styles instead of allowing themselves to be swept up by prevailing norms. The story of the lead-up to the Great Recession of 2008 is peppered, alas, with careful types who took inappropriate risks, like

the former chief executive of Citigroup, Chuck Prince, a former lawyer who made risky loans into a falling market because, he said, "as long as the music is playing, you've got to get up and dance." "People who are initially cautious become observes aggressive," Boykin Curry of this phenomenon. "They say,

'Hey, the more aggressive are getting people promoted and I'm not, so I'm going to be more aggressive too.' "

But stories of financial crises often contain

subplots about people who

famously (and profitably)

saw them coming—and such tales tend to feature just the kinds of people who embrace FUD, or who like to close the blinds to their offices, insulate themselves from mass opinion and peer pressure, and focus in solitude. One of the few investors who managed to flourish during the crash of 2008 was Seth Klarman, president of a

hedge fund called the Baupost Group. Klarman is known for consistently outperforming the market while steadfastly avoiding risk, and for keeping a significant percentage of his assets in cash. In the two years since the crash of 2008, when most investors were fleeing hedge funds in droves, Klarman almost doubled

Baupost's assets under management \$22 to billion. Klarman achieved this with an investment strategy based explicitly on FUD. "At Baupost, we are big fans of fear, and in investing, it is clearly better to be scared than sorry," he once wrote in a letter to investors. Klarman is a "world-class

worrier," observes the New York Times, in a 2007 article called "Manager Frets Over the Market, But Still Outdoes It." He owns a racehorse called "Read the Footnotes." During the years leading up to the 2008 crash, Klarman "was one of the few people to stick to a cautious and seemingly paranoid message," says

"When Boykin Curry. everyone else was celebrating, he was probably storing cans tuna in his basement, to prepare for the end of civilization. Then, when everyone else panicked, he started buying. It's not just analysis; it's his emotional makeup. The same wiring that helps Seth find opportunities that no one

else sees can make him seem aloof or blunt. If you're the kind of person who frets every time the quarter is good, you may have trouble rising to the top of a corporate pyramid. Seth probably wouldn't have made it as a sales manager. But he is one of the great investors of our time." Similarly, in his book on

the run-up to the 2008 crash, The Big Short, Michael Lewis introduces three of the few people who were astute enough to forecast the coming disaster. One was a hedge-fund solitary manager named Michael Burry who describes himself as "happy in my own head" and who spent the years prior to the crash

alone in his office in San Jose, California, combing financial through documents and developing his own contrarian views of market risk. The others were a pair of socially awkward investors named Charlie Ledley and Jamie Mai, whose entire investment strategy was based on FUD: they placed bets that had limited

off handsomely if dramatic but unexpected changes occurred in the market. It was not an investment strategy so much as a life philosophy—a belief that most situations were not as stable as they appeared to be. This "suited the two personalities," men's writes Lewis. "They never

downside, but would pay

had to be sure of anything. Both were predisposed to feel that people, and by extension markets, were too certain about inherently uncertain things." Even after being proven right with their 2006 and 2007 bets against the subprime mortgage market, and earning \$100 million in the process, "they actually

spent time wondering how people who had been so sensationally right (i.e., they themselves) could preserve the capacity for diffidence and doubt and uncertainty that had enabled them to be right." Ledley and Mai understood the value of their constitutional diffidence, but others were so spooked by it that they

gave up the chance to invest money with the two -in effect, sacrificing millions of dollars to their prejudice against FUD. "What's amazing with Charlie Ledley," says Boykin Curry, who knows him well, "is that here you had a brilliant investor who was exceedingly conservative. If you were concerned about risk, there was no one better to go to. But he was terrible at raising capital because he seemed so tentative about everything. Potential clients would walk out of Charlie's office scared to give him money because they thought he lacked conviction. Meanwhile, they poured money into funds run by managers who exuded confidence

and certainty. Of course, when the economy turned, the confident group lost half their clients' money, while Charlie and Jamie made a fortune. Anyone who used conventional social cues to evaluate money managers was led to exactly the wrong conclusion."

Another example, this one from the 2000 crash of the dot-com bubble, concerns a self-described introvert based in Omaha, Nebraska, where he's well known for shutting himself inside his office for hours at a time. Warren Buffett, the legendary investor and one of the wealthiest men in the world, has used exactly the attributes we've

explored in this chapter intellectual persistence, prudent thinking, and the ability to see and act on warning signs—to make billions of dollars for himself and the shareholders in his **Berkshire** company, Hathaway. Buffett is known for thinking carefully when those around him lose their heads. "Success in investing doesn't correlate with IQ," he has said. "Once you have ordinary intelligence, what you need is the temperament to control the urges that get other people into trouble in investing." Every summer since 1983, the boutique investment bank Allen & Co. has hosted a weeklong

conference in Sun Valley, Idaho. This isn't just any conference. It's an extravaganza, with lavish parties, river-rafting trips, mountain ice-skating, biking, fly fishing, horseback riding, and a fleet of babysitters to care for guests' children. The hosts service the media industry, and past guest lists have included

moguls, newspaper Hollywood celebrities, and Silicon Valley stars, with marquee names such as Tom Hanks, Candice Bergen, Barry Diller, Rupert Murdoch, Steve Jobs, Diane Sawyer, and Tom Brokaw. In July 1999, according to Alice Schroeder's excellent biography of Buffett, The Snowball, he

was one of those guests. He had attended year after year with his entire family in tow, arriving by Gulfstream jet and staying with the other VIP attendees in a select group of condos overlooking the golf course. Buffett loved his annual vacation at Sun Valley, regarding it as a great place for his family to gather and for him to

catch up with old friends. But this year the mood was different. It was the height of the technology boom, and there were new faces at the table—the heads of technology companies that had grown rich and powerful almost overnight, and the venture capitalists who had fed them cash. These people were riding high. When

the celebrity photographer Annie Leibovitz showed up to shoot "the Media All-Star Team" for Vanity Fair, some of them lobbied to get in the photo. They were the future, they believed. Buffett was decidedly not a part of this group. He was an old-school investor who didn't get caught up in speculative frenzy

around companies with unclear earnings prospects. Some dismissed him as a relic of the past. But Buffett was still powerful enough to give the keynote address on the final day of the conference. He thought long and hard about that speech and spent weeks preparing for it. After warming up the crowd with

charmingly selfdeprecating story—Buffett used to dread public speaking until he took a Dale Carnegie course—he told the crowd, in painstaking, brilliantly analyzed detail, why the tech-fueled bull market wouldn't last. Buffett had studied the data, noted the danger signals, and then paused and reflected on

what they meant. It was the first public forecast he had made in thirty years. The audience wasn't thrilled, according to Schroeder. Buffett was raining on their parade. They gave him a standing ovation, but in private, many dismissed his ideas. "Good old Warren," they said. "Smart man, but this time he missed the boat."

Later that evening, the conference wrapped up with a glorious display of fireworks. As always, it had been a blazing success. But the most important aspect of the gathering—Warren Buffett alerting the crowd to the market's warning signswouldn't be revealed until the following year, when the dot-com bubble burst,

just as he said it would. Buffett takes pride not only in his track record, but also in following his own "inner scorecard." He divides the world into people who focus on their own instincts and those who follow the herd. "I feel like I'm on my back," says Buffett about his life as an investor, "and there's the Sistine Chapel, and I'm painting away. I like it when people say, 'Gee, that's a pretty goodlooking painting.' But it's my painting, and when somebody says, 'Why don't you use more red instead of blue?' Good-bye. It's my painting. And I don't care what they sell it for. The painting itself will never be finished. That's one of the great things about it."

Three

Part

DO ALL CULTURES HAVE AN EXTROVERT IDEAL?

8 SOFT POWER

Asian-Americans and the Extrovert Ideal

In a gentle way, you can shake the world.
—MAHATMA GANDHI

It's a sunny spring day in

2006, and Mike Wei, a seventeen-year-old Chinese-born senior at Lynbrook High School near Cupertino, California, is telling me about his experiences as an Asian-American student. Mike is dressed in sporty all-American attire of khakis, windbreaker, and baseball cap, but his sweet, serious face and wispy mustache

give him the aura of a budding philosopher, and he speaks so softly that I have to lean forward to hear him. "At school," says Mike, "I'm a lot more interested in listening to what the teacher says and being the good student, rather than the class clown or interacting with other kids in the class. If being outgoing, shouting, or acting out in class is gonna affect the education I receive, it's better if I go for education." Mike relates this view matter-of-factly, but he seems to know how unusual it is by American standards. His attitude comes from his parents, he explains. "If I have a choice between doing

something for myself, like going out with my friends, or staying home and studying, I think of my parents. That gives me the strength to keep studying. My father tells me that his is computer iob programming, and my job is to study." Mike's mother taught the same lesson by example. A former math

teacher who worked as a maid when the family immigrated to North America, she memorized English vocabulary words while washing dishes. She is very quiet, says Mike, and very resolute. "It's really Chinese to pursue your own education like that. My mother has the kind of strength that not everyone can see."

By all indications, Mike has made his parents proud. His e-mail username is "A-student," and he's just won a coveted spot in Stanford freshman University's class. He's the kind of thoughtful, dedicated that any student community would be proud to call its own. And yet, according to an article

called "The New White Flight" that ran in the Wall Street Journal just six months previously, white families are leaving Cupertino in droves, precisely because of kids like Mike. They are fleeing the sky-high test scores and awe-inspiring study habits of many Asian-American students. The article said that white

parents feared that their kids couldn't keep up academically. It quoted a student from a local high school: "If you were Asian, you had to confirm you were smart. If you were white, you had to prove it." But the article didn't explore what lay behind this stellar academic performance. I was curious

whether the town's scholarly bent reflected a culture insulated from the worst excesses of the Extrovert Ideal—and if so, what that would feel like. I decided to visit and find out. At first blush, Cupertino seems like the embodiment of the American Dream. Many first- and secondgeneration Asian

immigrants live here and work at the local high-tech office parks. Apple Computer's headquarters at 1 Infinite Loop is in town. Google's Mountain View headquarters is just down the road. Meticulously maintained cars glide along the boulevards; the few pedestrians are crisply dressed in bright colors

and cheerful whites. Unprepossessing ranch houses are pricey, but buyers think the cost is worth it to get their kids into the town's famed public school system, with its ranks of Ivy-bound kids. Of the 615 students in the graduating class of 2010 at Cupertino's Monta Vista High School (77 percent of whom are Asian-American,

according to the school's website, some of which is accessible in Chinese), 53 were National Merit Scholarship semifinalists. The average combined score of Monta Vista students who took the SAT in 2009 was 1916 out of 2400, 27 percent higher than the nationwide average. Respected kids at Monta

Vista High School are not necessarily athletic or vivacious, according to the students I meet here. Rather, they're studious and sometimes quiet. "Being smart is actually admired, even if you're weird," a Korean-American high school sophomore named Chris tells me. Chris describes the experience of his friend,

whose family left to spend two years in a Tennessee town where few Asian-Americans lived. The friend enjoyed it, but suffered culture shock. In Tennessee "there were insanely smart people, but they were always by themselves. Here, the really smart people usually have a lot of friends, because they can help

out with their people work." The library is Cupertino what the mall or soccer field is to other towns: an unofficial center of village life. High school kids cheerfully refer to studying as "going nerding." Football and cheerleading aren't particularly respected activities. "Our football

team sucks," Chris says good-naturedly. Though the team's recent stats are more impressive than Chris suggests, having a lousy football team seems to hold symbolic significance for him. "You couldn't really even tell they're football players," he explains. "They don't wear their jackets and travel in big groups. When

one of my friends graduated, they played a video and my friend was like, 'I can't believe they're showing football players and cheerleaders in this video.' That's not what drives this town." Ted Shinta, a teacher and adviser to the Robotics Team at Monta Vista High School, tells me something similar. "When I was in

high school," he says, "you were discouraged from voting in student elections unless you were wearing a varsity jacket. At most high schools you have a popular group that tyrannizes the others. But here the kids in that group don't hold any power over the other students. The student body is too academically oriented for that." A local college counselor named Purvi Modi agrees. "Introversion is not looked down upon," she tells me. "It is accepted. In some cases it is even highly respected and admired. It is cool to be a Master Chess Champion and play in the band." There's an introvert-extrovert spectrum here.

everywhere, but it's as if the population is distributed a few extra degrees toward the introverted end of the scale. One young woman, a Chinese-American about to begin her freshman year at an elite East Coast college, noticed this phenomenon after meeting some of her future classmates online, and

worries what the post-Cupertino future might hold. "I met a couple of people on Facebook," she says, "and they're just so different. I'm really quiet. I'm not that much of a partier or socializer, but everyone there seems to be very social and stuff. It's just very different from my friends. I'm not even sure if I'm gonna have friends

when I get there." One of her Facebook correspondents lives in nearby Palo Alto, and I ask how she'll respond if that person invites her to get together over the summer. "I probably wouldn't do it," she says. "It would be interesting to meet them and stuff, but my mom doesn't want me going out that much, because I have

to study." I'm struck by the young woman's sense of filial obligation, and its connection to prioritizing study over social life. But this is not unusual in Cupertino. Many Asian-American kids here tell me that they study all summer at their parents' request, even declining invitations to July birthday parties so

they can get ahead on the following October's calculus curriculum. "I think it's our culture," explains Tiffany Liao, a poised Swarthmore-bound high school senior whose parents are from Taiwan. "Study, do well, don't create waves. It's inbred in us to be more quiet. When I was a kid and would go to my parents' friends' house and didn't want to talk, I would bring a book. It was like this shield, and they would be like, 'She's so studious!' And that was praise." It's hard to imagine other American moms and dads outside Cupertino smiling on a child who reads in public while everyone else is gathered around the barbecue. But

schooled a parents generation ago in Asian countries were likely taught this quieter style as children. In many East Asian classrooms, the traditional curriculum listening, emphasizes writing, reading, and memorization. Talking is simply not a focus, and is even discouraged. "The teaching back

home is very different from here," says Hung Wei Chien, a Cupertino mom who came to the United States from Taiwan in 1979 to attend graduate school at UCLA. "There, you learn the subject, and they test you. At least when I grew up, they don't go off subject a lot, and they don't allow the students to ramble. If you

stand up and talk nonsense, you'll be reprimanded." Hung is one of the most jolly, extroverted people I've ever met, given to large, expansive gestures and frequent belly laughs. Dressed in running shorts, sneakers, and amber jewelry, she greets me with a bear hug and drives to a bakery for

breakfast. We dig into our pastries, chatting companionably. So it's telling that even Hung recalls her culture shock upon entering her American-style first classroom. She considered it rude to participate in class because she didn't want to waste her classmates' time. And sure enough, she says,

laughing, "I was the quiet person there. At UCLA, the professor would start class, saying, 'Let's discuss!' I would look at my peers while they were talking nonsense, and the professors were so patient, just listening to everyone." She nods her head comically, mimicking the respectful overly professors.

"I remember being amazed. It was linguistics class, and that's not even linguistics the students are talking about! I thought, 'Oh, in the U.S., as soon as you start talking, you're fine.' " If Hung was bewildered by the American style of class participation, it's likely that her teachers were equally perplexed by

her unwillingness to speak. A full twenty years after Hung moved to the United States, the San Jose Mercury News ran an article called "East, West **Teaching Traditions** Collide," exploring professors' dismay at the reluctance of Asian-born students like Hung to participate in California university classrooms. One

noted a professor "deference barrier" created by Asian students' reverence for their teachers. Another vowed to make class participation part of the grade in order to prod Asian students to speak in class. "You're supposed to downgrade yourself in Chinese learning because other thinkers so much

greater than you," said a third. "This is a perennial problem in classes with predominantly Asian-American students." The article generated a passionate reaction in the Asian-American community. Some said the universities were right that Asian students need to adapt to Western educational norms. "Asian-

walk all over them because of their silence," posted a reader of the sardonically website titled ModelMinority.com. Others felt that Asian students shouldn't be forced to speak up and conform to the Western mode. "Perhaps instead of trying to change their

ways, colleges can learn to

Americans have let people

silence," wrote Heejung Kim, a Stanford University cultural psychologist, in a paper arguing that talking is not always a positive act.

listen to their sound of

How is it that Asians and Westerners can look at the

exact same classroom interactions, and one group will label it "class participation" and the other "talking nonsense"? The Journal of Research in Personality has published an answer to this question in the form of a map of the world drawn by research Robert psychologist McCrae's map looks like something you'd

see in a geography textbook, but it's based, he says, "not on rainfall or population density, but on personality trait levels," and its shadings of dark and light grays—dark for extroversion, light for introversion—reveal a picture that "is quite clear: Asia ... is introverted, Europe extroverted." Had the map also included the

colored dark gray. Americans are some of the most extroverted people on earth. McCrae's map might seem like a grand exercise in cultural stereotyping. To group entire continents by

personality type is an act

of gross generalization:

you can find loud people

in mainland China just as

United States, it would be

easily as in Atlanta, Georgia. Nor does the map account for subtleties of cultural difference within a country or region. People in Beijing have different styles from those in Shanghai, and both are different still from the citizens of Seoul or Tokyo. describing Similarly, Asians as a "model minority"—even when

meant as a compliment—is just as confining and condescending as any description that reduces individuals to a set of perceived group characteristics. Perhaps it is also problematic to characterize Cupertino as an incubator for scholarly stand-outs, no matter how flattering this might sound to some.

But although I don't want to encourage rigid national or ethnic typecasting, to avoid entirely the topic of cultural difference and introversion would be a shame: there are too many aspects of Asian cultural and personality styles that the rest of the world could and should learn from. Scholars have for decades

studied cultural differences personality type, especially between East and West, and especially the dimension of introversion-extroversion, the one pair of traits that psychologists, who agree on practically nothing when it comes cataloging human personality, believe is salient and measurable all

over the world. Much of this research yields the same results as McCrae's map. One study comparing eight- to tenchildren year-old Shanghai and southern Ontario, Canada, for example, found that shy and sensitive children are shunned by their peers in Canada but make soughtafter playmates in China,

where they are also more likely than other children to be considered for leadership roles. Chinese children who are sensitive and reticent are said to be dongshi (understanding), a common term of praise. Similarly, Chinese high school students tell researchers that they prefer friends who are "humble" and "altruistic,"

"honest" and "hardworking," while American high school students seek out the "cheerful," "enthusiastic," and "sociable." "The contrast is striking," writes Michael Harris Bond, a cross-cultural psychologist who focuses on China. "The Americans emphasize sociability and prize those attributes that make for

easy, cheerful association. The Chinese emphasize deeper attributes, focusing on moral virtues and achievement." Another study asked Asian-Americans and European-Americans to think out loud while reasoning solving problems, and found that the Asians did much better when they were allowed to

be quiet, compared to the Caucasians, who performed well when vocalizing their problemsolving. These results would not surprise anyone familiar with traditional Asian attitudes to the spoken word: talk is for communicating need-toknow information; quiet and introspection are signs

of deep thought and higher truth. Words are potentially dangerous weapons that reveal things better left unsaid. They hurt other people; they can get their speaker into trouble. Consider, for example, these proverbs from the East: The wind howls, but the

mountain remains still.

---JAPANESE PROVERB

Those who know do not speak. Those who speak do not know.

—LAO ZI, The Way of Lao Zi

Even though I make no special attempt to observe the discipline of silence, living alone automatically makes me refrain from the sins of speech.

—камо по сномеі, 12th Century Japanese recluse

And compare them to proverbs from the West:

Be a craftsman in speech that thou mayest be strong, for the strength of one is the tongue, and speech is mightier than all fighting.

—MAXIMS OF PTAHHOTEP, 2400

B.C.E.

Speech is civilization itself.

The word, even the most contradictory word, preserves contact—it is silence which isolates.

—THOMAS MANN, The Magic

Mountain

The squeaky wheel gets the grease.

What lies behind these starkly different attitudes? One answer is the widespread reverence for education among Asians, particularly those from "Confucian belt" countries like China, Japan, Korea, and Vietnam. To this day, some Chinese villages display statues of students who passed the grueling Ming dynasty-era jinshi

exam hundreds of years ago. It's a lot easier to achieve that kind of distinction if—like some of the kids from Cupertino you spend your summers studying. Another explanation is group identity. Many Asian cultures are teamoriented, but not in the way that Westerners think of teams. Individuals in

Asia see themselves as part of a greater whole whether family, corporation, or community —and place tremendous value on harmony within their group. They often subordinate their own desires to the group's interests, accepting their place in its hierarchy. Western culture, by contrast, is organized

around the individual. We see ourselves as selfcontained units; our destiny is to express ourselves, to follow our bliss, to be free of undue restraint, to achieve the one thing that we, and we alone, were brought into this world to do. We may be gregarious, but we don't submit to group will, or at least we don't like to think we do. We love and respect our parents, but bridle at notions like filial piety, with their implications of subordination and restraint. When we get together with others, we do so as self-contained units having fun with, competing with, standing out from, jockeying for position with, and, yes, loving, other selfcontained units. Even the Western God is assertive, vocal, and dominant; his son Jesus is kind and tender, but also a crowdcharismatic, pleasing man of influence (Jesus Christ Superstar). It makes sense, then, that Westerners value boldness and verbal skill, traits that promote

individuality, while Asians prize quiet, humility, and sensitivity, which foster group cohesion. If you live in a collective, then things will go a lot more smoothly if you behave with restraint, even submission. This preference was vividly demonstrated in a recent fMRI study in which researchers showed

seventeen Americans and Japanese seventeen pictures of men in dominance poses (arms crossed, muscles bulging, legs planted squarely on the ground) and subordinate positions (shoulders bent, hands interlocked protectively over groin, legs squeezed together tight). They found that the dominant pictures in the American brains, while the submissive pictures did the same for the Japanese. From a Western perspective, it can be hard to see what's so attractive

activated pleasure centers

about submitting to the will of others. But what looks to a Westerner like subordination can seem like basic politeness to

many Asians. Don Chen, the Chinese-American Harvard Business School student you met in chapter 2, told me about the time he shared an apartment with a group of Asian friends plus his close Caucasian friend, a gentle, easygoing guy Don felt would fit right in. Conflicts arose when the Caucasian friend noticed

dishes piling up in the sink and asked his Asian roommates to do their fair share of the washing up. It wasn't an unreasonable complaint, says Don, and his friend thought he phrased his request politely and respectfully. But his Asian roommates saw it differently. To them, he came across as harsh and angry. An Asian in

that situation, said Don, would be more careful with his tone of voice. He would phrase his displeasure in the form of a question, not a request or command. Or he might not bring it up at all. It wouldn't be worth upsetting the group over a few dirty dishes. What looks to Westerners like Asian

deference, in other words, is actually a deeply felt concern for the sensibilities of others. As the psychologist Harris Bond observes, "It is only those from an explicit tradition who would label [the Asian] mode of discourse 'self-effacement.' Within this indirect tradition it might be 'relationship labeled

honouring.' And relationship honoring leads to social dynamics that can seem remarkable from Western а perspective. It's because of relationship honoring, for example, that social anxiety disorder in Japan, known as taijin kyofusho, takes the form not of excessive worry about

does in the United States, but of embarrassing others. It's because of relationship-honoring that Tibetan Buddhist monks find inner peace (and offthe-chart happiness levels, as measured in brain scans) by meditating quietly on compassion. And it's because of relationship-honoring that

embarrassing oneself, as it

Hiroshima victims apologized to each other for surviving. "Their civility has been well documented but still stays the heart," writes the essayist Lydia Millet. " 'I am sorry,' said one of them, bowing, with the skin of his arms peeling off in strips. 'I regret I am still alive while your baby is not.' 'I am sorry,' another

said earnestly, with lips swollen to the size of oranges, as he spoke to a child weeping beside her dead mother. 'I am so sorry that I was not taken instead.' " Though Eastern relationship-honoring is admirable and beautiful, so is Western respect for individual freedom, selfexpression, and personal

destiny. The point is not that one is superior to the other, but that a profound difference in cultural values has a powerful impact on the personality styles favored by each culture. In the West, we subscribe to the Extrovert Ideal, while in much of Asia (at least before the Westernization of the past several decades), silence is

golden. These contrasting outlooks affect the things we say when our roommates' dishes pile up in the sink—and the things we don't say in a university classroom. Moreover, they tell us that the Extrovert Ideal is not as sacrosanct as we may have thought. So if, deep down, you've been thinking that it's only

natural for the bold and sociable to dominate the reserved and sensitive, and that the Extrovert Ideal is innate to humanity, Robert McCrae's personality map suggests a different truth: that each way of being quiet and talkative, careful and audacious, inhibited unrestrained—is and characteristic of its own mighty civilization.

. ..

Ironically, some of the people who have the most trouble holding on to this truth are Asian-American kids from Cupertino. Once they emerge from adolescence and leave the confines of their hometown, they find a

world in which loudness

and speaking out are the

tickets to popularity and financial success. They come to live with double-consciousness part Asian and part American—with each side calling the other into question. Mike Wei, the high school senior who told me he'd rather study than socialize, is a perfect example of this ambivalence. When we first met, he was a high school senior, still nestled in the Cupertino cocoon. "Because we put so much emphasis on education," Mike told me then, referring to Asians in general, "socializing is not a big part of our selves." When I caught up with Mike the following autumn, in his freshman year at Stanford, only a twenty-minute drive from Cupertino but a world away demographically, he seemed unsettled. We met at an outdoor café, where we sat next to a coed group of athletes erupting regularly in laughter. Mike nodded at the athletes, all of whom were white. Caucasians, he said, seem to be "less afraid of other people thinking that what

they said was too loud or too stupid." Mike was frustrated by the superficiality of dining-hall conversation, and by the "bullshitting" that often substituted for class participation in freshman seminars. He was spending his free time mostly with other Asians, partly because they had "the level same

outgoingness" he did. The non-Asians tended to make him feel as if he had to "be really hyped up or excited, even though that might not be true to who I am." "My dorm has four Asians in it, out of fifty kids," he told me. "So I feel more comfortable around them. There's this one guy called Brian, and he's pretty quiet. I can tell

he has that Asian quality where you're kind of shy, and I feel comfortable around him for that reason. I feel like I can be myself around him. I don't have to do something just to look cool, whereas around a big group of people that aren't Asian or are just really loud, I feel like I have to play a role." Mike sounded dismissive

styles, but he admitted that he sometimes wished he could be noisy and uninhibited himself. "They're more comfortable with their own character," he said of his Caucasian classmates. Asians are "not uncomfortable with who they are, but are with uncomfortable expressing who they are. In

of Western communication

a group, there's always that pressure to be outgoing. When they don't live up to it, you can see it in their faces." Mike told me about a freshman icebreaking event he'd participated in, a scavenger hunt in San Francisco that was supposed to encourage students to step out of their comfort zones. Mike

was the only Asian assigned to a rowdy group, some of whom streaked naked down a San Francisco street and crossdressed in a local department store during the hunt. One girl went to a Victoria's Secret display and stripped down to her underwear. As Mike recounted these details, I thought he was going to

tell me that his group had been over the top, inappropriate. But he wasn't critical of the other students. He was critical of himself. "When people do things like that, there's a moment where I feel uncomfortable with it. It shows my own limits. Sometimes I feel like they're better than I

Mike was getting similar messages from his professors. A few weeks after the orientation event, his freshman adviser—a professor at Stanford's medical school—invited a group of students to her house. Mike hoped to make a good impression, but he couldn't think of anything to say. The other students seemed to have

no problem joking around and asking intelligent questions. "Mike, you were so loud today," the professor teased him when finally he said good-bye. "You just blew me away." He left her house feeling bad about himself. "People who don't talk are seen as weak or lacking," he concluded ruefully. To be sure, these

feelings were not totally new to Mike. He'd experienced glimmers of them back in high school. Cupertino may have an almost Confucian ethic of quiet, study, and relationship-honoring, but it's subject to the mores of the Extrovert Ideal all the same. At the local shopping center on a weekday afternoon, cocky

Asian-American teenage guys with spiky haircuts call out to eye-rolling, wise-cracking girls in spaghetti-strap tank tops. On a Saturday morning at the library, some teens study intently in corners, but others congregate at boisterous tables. Few of the Asian-American kids I spoke to in Cupertino wanted to identify

themselves with the word introvert, even if they effectively described themselves that way. While deeply committed to their parents' values, they seemed to divide the world into "traditional" Asians versus "Asian superstars." The traditionals keep their heads down and get their homework done. The superstars do well

academically but also joke around in class, challenge their teachers, and get themselves noticed. students Many deliberately try to be more outgoing than their parents, Mike told me. "They think their parents are too quiet and they try to overcompensate by flauntingly being outgoing." Some of the

parents have started to shift their values too. "Asian parents are starting to see that it doesn't pay to be quiet, so they encourage their kids to take speech and debate," Mike said. "Our speech and debate program was the second largest in California, to give kids exposure to speaking loudly and convincingly."

Still, when I first met Mike in Cupertino, his sense of himself and his values was pretty much intact. He knew that he wasn't one of the Asian superstars—he rated himself a 4 on a popularity scale of 1 to 10—but seemed comfortable in his own skin. "I'd rather hang out with people whose personalities are more

genuine," he told me then, "and that tends to lead me toward more quiet people. It's hard to be gleeful when at the same time I'm trying to be wise." Indeed, Mike was probably lucky to enjoy the Cupertino cocoon for as long as he did. Asian-American kids who grow up in more typical American communities often face the issues that Mike confronted as Stanford freshman much earlier in their lives. One study comparing European-American and second-generation Chinese-American teens over a five-year period found that the Chinese-**Americans** were significantly more introverted than their

American peers throughout adolescence and paid the price with their self-esteem. While introverted Chinese-American twelve-year-olds felt perfectly fine about themselves—presumably because they still measured themselves according to their parents' traditional value systems by the time they got to be seventeen and had been more exposed to America's Extrovert Ideal, their self-regard had taken a nosedive.

For Asian-American kids, the cost of failing to fit in

the cost of failing to fit in is social unease. But as they grow up, they may

pay the price with their paychecks. The journalist Nicholas Lemann once interviewed a group of Asian-Americans on the subject of meritocracy for his book The Big Test. "A sentiment that emerges consistently," he wrote, "is that meritocracy ends on graduation day, and that afterward, Asians start to fall behind because they

don't have quite the right cultural style for getting ahead: too passive, not hail-fellow-well-met enough." I met many professionals in Cupertino who were struggling with this issue. A well-heeled housewife confided that all the husbands in her social circle had recently accepted jobs in China,

and were now commuting between Cupertino and Shanghai, partly because their quiet styles prevented them from advancing locally. The American companies "think they can't handle business," she said, "because of presentation. In business, you have to put a lot of nonsense together and present it. My husband

always just makes his point and that's the end of it. When you look at big companies, almost none of the top executives are Asians. They hire someone who doesn't know anything about the business, but maybe he can make a good presentation." A software engineer told me how overlooked he felt

at work in comparison to other people, "especially people from European origin, who speak without thinking." In China, he said, "If you're quiet, you're seen as being wise. It's completely different here. Here people like to speak out. Even if they have an idea, not completely mature yet, people still speak out. If I

could be better in communication, my work would be much more recognized. Even though my manager appreciates me, he still doesn't know I have done work so wonderful." The engineer then confided that he had sought training in American-style extroversion from

Taiwanese-born communications professor named Preston Ni. At Foothill College, just outside Cupertino, Ni conducts daylong seminars called "Communication Success for Foreign-Born Professionals." The class is advertised online through a local group called the Silicon Valley SpeakUp Association, whose mission

is to "help foreign-born professionals to succeed in life through enhancement in soft skills." ("Speak you [sic] mind!" reads the organization's home page. "Together everyone achieve [sic] more at SVSpeakup.") Curious about what speaking one's mind looks like from an Asian perspective, I signed up for

the class and, a few Saturday mornings later, found myself sitting at a desk in a starkly modern classroom, the Northern California mountain sun streaming through its plate-glass windows. There were about fifteen students in all, many from Asian countries but some from Eastern Europe and South America, too.

Professor Ni, a friendlylooking man wearing a Western-style suit, a goldcolored tie with a Chinese drawing of a waterfall, and a shy smile, began the class with an overview of American business culture. In the United States, he warned, you need style as well as substance if you want to get ahead. It may not be fair, and it might judging a person's contribution to the bottom line, "but if you don't have charisma you can be the most brilliant person in the world and you'll still be disrespected." This is different from many other cultures, said Ni. When a Chinese Communist leader makes a speech, he reads it, not

not be the best way of

even from a teleprompter but from a paper. "If he's the leader, everyone has to listen." Ni asked for volunteers and brought Raj, a twentysomething Indian software engineer at a Fortune 500 company, to the front of the room. Raj was dressed in the Silicon Valley uniform of casual button-down shirt and

chinos, but his body language was defensive. He stood with his arms crossed protectively over his chest, scuffing at the ground with his hiking boots. Earlier that morning, when we'd gone around the room introducing ourselves, he'd told us, in a tremulous voice from his seat in the back row, that he wanted

to learn "how to make more conversation" and "to be more open." Professor Ni asked Raj to tell the class about his plans for the rest of the weekend. "I'm going to dinner with a friend," replied Raj, looking fixedly at Ni, his voice barely audible, "and then perhaps tomorrow I'll go hiking."

Professor Ni asked him to try it again. "I'm going to dinner with a friend," said Raj, "and then, mumble, mumble, mumble, I'll go hiking." "My impression of you," Professor Ni told Raj gently, "is that I can give you a lot of work to do, but I don't have to pay much attention to you.

Remember, in Silicon Valley, you can be the smartest, most capable person, but if you can't express yourself aside from showing your work, you'll underappreciated. be foreign-born Many professionals experience this; you're a glorified laborer instead of leader." The class nodded

sympathetically. "But there's a way to be yourself," continued Ni, "and to let more of you come out through your voice. Many Asians use only a narrow set of muscles when they speak. So we'll start with breathing." With that, he directed Raj to lie on his back and vocalize the five American

English vowels. "A ... E ... U ... O ... I ..." intoned Raj, his voice floating up from the classroom floor. "A ... E ... U ... O ... I ... A ... E ... U ... O ... I ..." Finally Professor Ni deemed Raj ready to stand up again. "Now, what interesting things do you have planned for after class?" he asked, clapping his

hands encouragingly. "Tonight I'm going to a friend's place for dinner, and tomorrow I'm going hiking with another friend." Raj's voice was louder than before, and the class applauded with gusto. The professor himself is a role model for what can happen when you work at

it. After class, I visited him

in his office, and he told me how shy he'd been when he first came to the United States—how he put himself in situations, like summer camp and business school, where he could practice acting extroverted until it came more naturally. These days he has a successful consulting practice, with clients that include Yahoo!, Visa, and Microsoft, teaching some of the same skills he labored to acquire himself. But when we began talking about Asian concepts of "soft power" what Ni calls leadership "by water rather than by fire"—I started to see a side of him that was less impressed by Western styles of communication.

"In Asian cultures," Ni said, "there's often a subtle way to get what you want. It's not always aggressive, but it can be very determined and very skillful. In the end, much is achieved because of it. Aggressive power beats you up; soft power wins you over." I asked the professor for real-life examples of soft power, and his eyes shone as he told me of clients whose strength lay in their ideas and heart. Many of these people were organizers of employee groups—women's groups, diversity groups—who had managed to rally people to their cause through conviction rather than dynamism. He also talked about groups like Mothers

Against Drunk Driving clusters of people who change lives through the power not of their charisma but of their caring. Their communication skills are sufficient to convey their message, but their real strength comes from substance. "In the long run," said Ni, "if the idea is good,

just and you put heart into it, it's almost a universal law: you will attract people who want to share your cause. Soft power is quiet persistence. The people I'm thinking of are very persistent in their day-to-day, person-tointeractions. person Eventually they build up a team." Soft power, said Ni,

people shift. If the cause is

was wielded by people we've admired throughout history: Mother Teresa, the Buddha, Gandhi. I was struck when Ni mentioned Gandhi. I had asked almost all the Cupertino high school students I met to name a leader they admired, and many had named Gandhi. What was it about him that inspired them so?

Gandhi was, according to his autobiography, constitutionally shy and quiet man. As a child, he was afraid of everything: thieves, ghosts, snakes, the

dark, and especially other

people. He buried himself

in books and ran home

from school as soon as it

was over, for fear of

having to talk to anybody. Even as a young man, when he was elected to his first leadership position as a member of the Executive Committee of the Vegetarian Society, he attended every meeting, but was too shy to speak. "You talk to me quite all right," one of the members asked him, confused, "but why is it that you never

open your lips at a committee meeting? You are a drone." When a political struggle occurred on the committee, Gandhi had firm opinions, but was too scared to voice them. He wrote his thoughts down, intending to read them aloud at a meeting. But in the end he was too cowed even to do that. Gandhi learned over

time to manage his shyness, but he never really overcame it. He couldn't speak extemporaneously; he avoided making speeches whenever possible. Even in his later years, he wrote, "I do not think I could or would even be inclined to keep a meeting of friends engaged in talk." But with his shyness

came his unique brand of strength—a form of restraint best understood by examining little known corners of Gandhi's life story. As a young man he decided to travel to England to study law, against the wishes of the leaders of his Modhi Bania subcaste. Caste members were forbidden to eat meat, and the leaders

believed that vegetarianism was impossible in England. But Gandhi had already vowed to his beloved mother to abstain from meat, so he saw no danger in the trip. He said as much to the Sheth, the headman of the community. "Will you disregard the orders of the caste?" demanded the Sheth.

"I am really helpless," replied Gandhi. "I think the caste should not interfere in the matter." Boom! He was excommunicated—a judgment that remained in force even when he returned from England several years later with the promise of success that attended a young, Englishspeaking lawyer. The

community was divided over how to handle him. One camp embraced him; the other cast him out. This meant that Gandhi was not allowed even to eat or drink at the homes of fellow subcaste members, including his own sister and his motherand father-in-law. Another man, Gandhi knew, would protest for

readmission. But he couldn't see the point. He knew that fighting would only generate retaliation. Instead he followed the Sheth's wishes and kept at a distance, even from his own family. His sister and in-laws were prepared to host him at their homes in secret, but he turned them down. The result of this

compliance? The subcaste not only stopped bothering him, but its members including those who had excommunicated himhelped in his later political work, without expecting anything in return. They treated him with affection and generosity. "It is my conviction," Gandhi wrote later, "that all these good things are due to my non-

resistance. Had I agitated for being admitted to the caste, had I attempted to divide it into more camps, had I provoked the castemen, they would surely have retaliated, and instead of steering clear of the storm, I should, on arrival from England, have found myself in a whirlpool of agitation." This pattern—the

decision to accept what another man would challenge—occurred again and again in Gandhi's life. As a young lawyer in South Africa, he applied for admission to the local bar. The Law Society didn't want Indian members, and tried to thwart his application by requiring an original copy of a certificate that was on

file in the Bombay High Court and therefore inaccessible. Gandhi was enraged; he knew well that the true reason for these barriers was discrimination. But he didn't let his feelings show. Instead he negotiated patiently, until the Law Society agreed to accept an affidavit from a local dignitary.

The day arrived when he stood to take the oath, at which point the chief justice ordered him to take off his turban. Gandhi saw his true limitations then. He knew that resistance would be justified, but believed in picking his battles, so he took off his headgear. His friends were upset. They said he was weak, that he should have

stood up for his beliefs. But Gandhi felt that he had learned "to appreciate the beauty of compromise." If I told you these stories mentioning without Gandhi's name and later achievements, you might view him as a deeply passive man. And in the West, passivity is a transgression. To

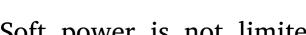
"passive," according to the Merriam-Webster Dictionary, means to be "acted upon by an external agency." It also means to be "submissive." Gandhi himself ultimately rejected the phrase "passive resistance," which he associated with weakness, preferring satyagraha, the term he coined to mean "firmness in pursuit of

truth." the word But as implies, satyagraha Gandhi's passivity was not weakness at all. It meant focusing on an ultimate goal and refusing to divert energy to unnecessary skirmishes along the way. Restraint, Gandhi believed, was one of his greatest assets. And it was born of his shyness:

I have naturally formed the habit of restraining my thoughts. A thoughtless word hardly ever escaped my tongue or pen. Experience has taught me that silence is part of the spiritual discipline of a votary of truth. We find so many people impatient to talk. All this talking can

hardly be said to be of

any benefit to the world. It is so much waste of time. My shyness has been in reality my shield and buckler. It has allowed me to grow. It has helped me in my discernment of truth.



Soft power is not limited

to moral exemplars like Gandhi. Mahatma Consider, for example, the much-ballyhooed excellence of Asians in fields like math and science. Professor Ni defines soft power as "quiet persistence," and this trait lies at the heart of academic excellence as surely as it does in Gandhi's political triumphs. Quiet persistence requires attention—in sustained effect restraining one's reactions to external stimuli. The TIMSS exam (Trends in International Mathematics and Science Study) is a standardized math and science test given every four years to kids around the world.

After each test, researchers slice and dice the results, comparing performance of students from different countries; Asian countries such as Korea, Singapore, Japan, and Taiwan consistently rank at the top of the list. In 1995, for example, the first year the TIMSS was given, Korea, Singapore, and Japan had the world's

highest average middleschool math scores and were among the top four worldwide in science. In 2007, when researchers measured how many students in a given country reached the Advanced International Benchmark a kind of superstar status for math students—they found that most of the standouts were clustered

in just a few Asian countries. About 40 percent of fourth graders in Singapore and Hong Kong reached or surpassed the Advanced Benchmark, and about 40 to 45 percent of eighth graders in Taiwan, Korea, and Singapore pulled it off. Worldwide, the median percentage of students reaching the Advanced percent at the fourth grade and 2 percent at the eighth grade. How to explain these sensational performance gaps between Asia and the rest of the world? Consider

Benchmark was only 5

this interesting wrinkle in the TIMSS exam. Students taking the test are also asked to answer a tedious series of questions about

themselves, ranging from how much they enjoy science to whether there are enough books in their home to fill three or more bookcases. questionnaire takes a long time to complete, and since it doesn't count toward the final grade, many students leave a lot of questions blank. You'd have to be pretty

persistent to answer every single one. But it turns out, according to a study by education professor Erling Boe, that the nations whose students fill out more of the questionnaire also tend to have students who do well on the TIMSS test. In other words, excellent students seem not only to possess the cognitive ability to solve

math and science problems, but also to have a useful personality quiet characteristic: persistence. Other studies have also found unusual levels of persistence in even very young Asian children. For example, the cross-cultural psychologist Priscilla Blinco gave Japanese and American first graders an

unsolvable puzzle to work on in solitude, without the help of other children or a teacher, and compared how long they tried before giving up. The Japanese children spent an average of 13.93 minutes on the puzzle before calling it quits, whereas the American kids spent only 9.47 minutes. Fewer than 27 percent of the

American students persisted as long as the average Japanese student —and only 10 percent of the Japanese students gave up as quickly as the average American. Blinco attributes these results to the Japanese quality of persistence. The quiet persistence shown by many Asians, and Asian-Americans, is

not limited to the fields of math and science. Several years after my first trip to Cupertino, I caught up with Tiffany Liao, the Swarthmore-bound high school student whose parents had praised her so highly for loving to read, even in public, when she was a young girl. When we first met, Tiffany was a baby-faced seventeen-yearold on her way to college. She told me then that she was excited to travel to the East Coast and meet new people, but was also afraid of living in a place where no one else would drink bubble tea, the popular drink invented in Taiwan. Now Tiffany was a worldly and sophisticated college senior. She had studied abroad in Spain.

She signed her notes with a continental touch: "Abrazos, Tiffany." In her Facebook picture, the childlike look was gone, replaced with a smile that was still soft and friendly but also knowing. Tiffany was on her way to realizing her dream of becoming a journalist, having just been elected editor-in-chief of the

college newspaper. She still described herself as shy—she feels a heat rush on her face when she first speaks in public or picks up the phone to call a stranger—but had become more comfortable speaking up. She believed that her "quiet traits," as she called them, had helped her become editor-in-chief. For Tiffany, soft power meant taking thorough notes, and doing deep research on her interview subjects before meeting them face-to-face. "This process has contributed to my success as a journalist," she wrote to me. Tiffany had come to embrace the power of quiet.

attentively,

listening

When I first met Mike Wei, the Stanford student who wished he was uninhibited as his classmates, he said that there was no such thing as a quiet leader. "How can you let people know you have conviction if you're quiet about it?" he asked. I reassured him that this wasn't so, but Mike had so much quiet conviction

about the inability of quiet to convey people conviction that deep down I'd wondered whether he had a point. But that was before I heard Professor Ni talk about Asian-style soft power, before I read Gandhi on satyagraha, before I contemplated Tiffany's bright future as a journalist. Conviction is conviction, the kids from Cupertino taught me, at whatever decibel level it's expressed.

Part

Four

HOW TO LOVE, HOW TO WORK

9

WHEN SHOULD YOU ACT MORE EXTROVERTED THAN YOU REALLY ARE?

A man has as many social selves as there are distinct groups of persons about whose opinion he cares. He generally shows a different side of himself to each of these different groups.

---WILLIAM JAMES

Meet Professor Brian Little, former Harvard University psychology lecturer and winner of the 3M Teaching Fellowship, sometimes referred to as the Nobel Prize of university teaching. Short, sturdy, bespectacled, and endearing, Professor Little has a booming baritone, a habit of breaking into song and twirling about

onstage, and an old-school actor's way of emphasizing consonants and elongating vowels. He's been described as a cross between Robin Williams and Albert Einstein, and when he makes a joke that pleases his audience, which happens a lot, he looks even more delighted than they do. His classes at Harvard were always

oversubscribed and often ended with standing ovations. In contrast, the man I'm about to describe seems a very different breed: he lives with his wife in a tucked-away house on more than two acres of remote Canadian woods, visited occasionally by his children and grandchildren, but

otherwise keeping to himself. He spends his free time scoring music, reading and writing books and articles, and e-mailing friends long notes he calls "e-pistles." When he does socialize, he favors one-onone encounters. At parties, he pairs off into quiet conversations as soon as he can or excuses himself "for a breath of fresh air."

When he's forced to spend too much time out and about or in any situation involving conflict, he can literally become ill. Would you be surprised if I told you that the vaudevillean professor and the recluse who prefers a life of the mind are one and the same man? Maybe not, when you consider

that we all behave

differently depending on the situation. But if we're capable of such flexibility, does it even make sense to chart the differences between introverts and extroverts? Is the very notion of introversionextroversion too pat a dichotomy: the introvert as sage philosopher, the extrovert as fearless leader? The introvert as

poet or science nerd, the extrovert as jock or cheerleader? Aren't we all a little of both? Psychologists call this the "person-situation" debate: Do fixed personality traits really exist, or do they shift according to the situation in which people find themselves? If you talk to Professor Little, he'll tell you that despite his public persona and his teaching accolades, he's a true blue, off-the-charts introvert, not only behaviorally but also neurophysiologically (he took the lemon juice test I described in chapter 4 and salivated right on cue). This would seem to place him squarely on the "person" side of the debate: Little believes that

personality traits exist, that they shape our lives in profound ways, that based on they're physiological mechanisms, and that they're relatively stable across a lifespan. Those who take this view stand on broad shoulders: Hippocrates, Milton, Schopenhauer, Jung, and more recently the prophets of fMRI machines and skin On the other side of the debate are a group of psychologists known as the Situationists. Situationism posits that our generalizations about people, including the

conductance tests.

words we use to describe one another—shy, aggressive, conscientious, agreeable—are misleading. There is no core self; there

are only the various selves of Situations X, Y, and Z. The Situationist view rose to prominence in 1968 when the psychologist Walter Mischel published Personality and Assessment, challenging the idea of fixed personality traits. Mischel argued that situational factors predict

the behavior of people like

Brian Little much better

traits.

For the next few decades, Situationism prevailed. The postmodern view of self that emerged around this time,

than supposed personality

influenced by theorists like Erving Goffman, author of The Presentation of Self in Everyday Life, suggested that social life is performance and social

masks are our true selves. Many researchers doubted whether personality traits even existed in any meaningful sense. Personality researchers had trouble finding jobs. But just as the naturenurture debate was replaced with interactionism—the insight that both factors contribute to who we are,

and indeed influence each other—so has the personsituation debate been superseded by a more nuanced understanding. Personality psychologists acknowledge that we can feel sociable at 6:00 p.m. and solitary at 10:00 p.m., and that these fluctuations are real and situationdependent. But they also emphasize how much

support the premise that notwithstanding these variations, there truly is such a thing as a fixed personality. These days, even Mischel admits that personality traits exist, but he believes they tend to occur in patterns. For example, some people are aggressive with peers and

evidence has emerged to

subordinates but docile with authority figures; others are just the opposite. People who are "rejection-sensitive" are warm and loving when they feel secure, hostile and controlling when they feel rejected. But this comfortable compromise raises a variation on the problem of free will that we

explored in chapter 5. We know that there are physiological limits on who we are and how we act. But should we attempt to manipulate our behavior within the range available to us, or should we simply be true to ourselves? At what point does controlling our behavior become futile, or exhausting?

If you're an introvert in corporate America, should you try to save your true self for quiet weekends and spend your weekdays striving to "get out there, mix, speak more often, and connect with your team and others, deploying all the energy and personality you can muster," as Jack Welch advised in **BusinessWeek** online

column? If you're an extroverted university student, should you save your true self for rowdy weekends and spend your weekdays focusing and studying? Can people finetheir own personalities this way? The only good answer I've heard to these questions comes from Professor Brian Little.

~

On the morning of October 12, 1979, Little visited the Royal Military College

Saint-Jean on the Richelieu River, forty kilometers south of Montreal, to address a

Montreal, to address a group of senior military officers. As an introvert might be expected to do, he'd prepared thoroughly

for the speech, not only rehearsing his remarks but also making sure he could cite the latest research. Even while delivering his talk, he was in what he calls classic introvert continually mode. scanning the room for audience displeasure and making adjustments as needed—a statistical reference here, a dollop of

humor there. The speech was a success (so much so that he would be invited to make it every year). But the next invitation the college extended horrified him: to join the top brass for lunch. Little had to deliver another lecture that afternoon, and he knew that making small talk for an hour and a half

needed to recharge for his afternoon performance. Thinking quickly, he announced that he had a passion for ship design and asked his hosts if he might instead take the opportunity of his visit to

would wipe him out. He

admire the boats passing by on the Richelieu River. He then spent his lunch hour strolling up and

down the river pathway with an appreciative expression on his face. For years Little returned to lecture at the college, and for years, at lunchtime, he walked the banks of the Richelieu River indulging his imaginary hobby—until the day the college moved its campus to a landlocked location. Stripped of his

cover story, Professor Little resorted to the only escape hatch he could find —the men's room. After each lecture, he would race to the restroom and hide inside a stall. One time, a military man spotted Little's shoes under the door and began a hearty conversation, so Little took to keeping his feet propped up on the

bathroom walls, where they would be hidden from view. (Taking shelter in bathrooms is a surprisingly common phenomenon, as you probably know if you're an introvert. "After a talk, I'm in bathroom stall number nine," Little once told Peter Gzowski, one of Canada's most eminent talk-show hosts. "After a show, I'm in stall

number eight," replied Gzowski, not missing a beat.) You might wonder how a strong introvert like Professor Little manages to speak in public so effectively. The answer, he says, is simple, and it has to do with a new field of psychology that he created almost singlehandedly,

called Free Trait Theory.

Little believes that fixed traits and free traits coexist. According to Free Trait Theory, we are born and culturally endowed with certain personality traits—introversion, for example—but we can and do act out of character in the service of "core personal projects." In other words, introverts are capable of

acting like extroverts for the sake of work they consider important, people they love, or anything they value highly. Free Trait Theory explains why an introvert might throw his extroverted wife a surprise party or join the PTA at his daughter's school. It explains how it's possible for an extroverted scientist to behave with reserve in

her laboratory, for an agreeable person to act hard-nosed during business negotiation, and for a cantankerous uncle to treat his niece tenderly when he takes her out for ice cream. As these examples suggest, Free Trait Theory applies in many different contexts, but it's especially relevant for introverts living under

the Extrovert Ideal. According to Little, our lives are dramatically enhanced when we're involved in core personal projects that we consider meaningful, manageable, and not unduly stressful, and that are supported by others. When someone asks us "How are things?" we may give a throwaway answer, but our true

response is a function of how well our core personal projects are going. That's why Professor Little, the consummate introvert, lectures with such passion. Like a modern-day Socrates, he loves his students deeply; opening their minds and attending to their wellbeing are two of his core personal projects. When

Harvard, the students lined up in the hallway as if he were giving out free tickets to a rock concert. For more than twenty years his students asked him to write several hundred letters of recommendation a year. "Brian Little is the engaging, most and caring entertaining, professor I have ever

Little held office hours at

encountered," wrote one student about him. cannot even begin to explain the myriad ways in which he has positively affected my life." So, for Brian Little, the additional effort required to stretch his natural boundaries is justified by seeing his core personal project—igniting all those minds—come to fruition.

At first blush, Free Trait Theory seems to run counter to a cherished piece of our cultural heritage. Shakespeare's oft-quoted advice, "To thine own self be true," runs deep in our philosophical DNA. Many of us are uncomfortable with the idea of taking on a "false" persona for any length of time. And if we

act out of character by convincing ourselves that our pseudo-self is real, we can eventually burn out without even knowing why. The genius of Little's theory is how neatly it resolves this discomfort. Yes, we are only to be pretending extroverts, and yes, such inauthenticity can be morally ambiguous (not to

mention exhausting), but if it's in the service of love or a professional calling, then we're doing just as Shakespeare advised.



When people are skilled at adopting free traits, it can be hard to believe that they're acting out of

character. Professor Little's students are usually incredulous when he claims to be an introvert. But Little is far from unique; many people, especially those in leadership roles, engage in a certain level of pretendextroversion. Consider, for example, my friend Alex, the socially adept head of a financial services

company, who agreed to give a candid interview on the condition of sealed-inblood anonymity. Alex told me that pretendextroversion was something he taught himself in the seventh grade, when he decided that other kids were taking advantage of him. "I was the nicest person you'd ever want to know,"

Alex recalls, "but the world wasn't that way. The problem was that if you were just a nice person, you'd get crushed. I refused to live a life where people could do that stuff to me. I was like, OK, what's the policy prescription here? And there really was only one. I needed to have every person in my pocket. If I

wanted to be a nice person, I needed to run the school." But how to get from A to B? "I studied social dynamics, I guarantee more than anyone you've ever met," Alex told me. He observed the way people talked, the way they walked—especially male dominance poses. He

adjusted his own persona,

which allowed him to go on being a fundamentally shy, sweet kid, but without being taken advantage of. "Any hard thing where you can get crushed, I was like, 'I need to learn how to do this.' So by now I'm built for war. Because then people don't screw you." Alex also took advantage of his natural strengths. "I learned that boys basically

do only one thing: they chase girls. They get them, they lose them, they talk about them. I was like, completely 'That's circuitous. I really like girls.' That's where intimacy comes from. So rather than sitting around and talking about girls, I got to know them. I used having relationships with girls, plus being good at

sports, to have the guys in my pocket. Oh, and every once in a while, you have to punch people. I did that, too." Today Alex has a folksy, affable, whistle-while-youwork demeanor. I've never seen him in a bad mood. But you'll see his selftaught bellicose side if you ever try to cross him in a

negotiation. And you'll see

his introverted self if you ever try to make dinner plans with him. "I could literally go years without having any friends except for my wife and kids," he says. "Look at you and me. You're one of my best friends, and how many times do we actually talk—when you call me! I don't like socializing. My dream is to

live off the land on a thousand acres with my family. You never see a team of friends in that dream. So notwithstanding whatever you might see in my public persona, I am an introvert. I think that fundamentally I'm the same person I always was. Massively shy, but I compensate for it."

V

But how many of us are really capable of acting out of character to this degree (putting aside, for the moment, the question of whether we want to)? Professor Little happens to

be a great performer, and so are many CEOs. What about the rest of us? Some years ago,

research psychologist named Richard Lippa set out to answer this question. He called a group of introverts to his lab and asked them to act like extroverts while pretending to teach a math class. Then he and his team, video cameras in hand, measured the length of their strides, the amount of eye contact they made

with their "students," the percentage of time they spent talking, the pace and volume of their speech, and the total length of each teaching session. They also rated how generally extroverted the subjects appeared, based on their recorded voices and body language. Then Lippa did the same with actual thing

extroverts and compared the results. He found that although the latter group came across as more extroverted, some of the pseudo-extroverts were surprisingly convincing. It seems that most of us know how to fake it to some extent. Whether or not we're aware that the length of our strides and the amount of time we

spend talking and smiling mark us as introverts and extroverts, we know it unconsciously. Still, there's a limit to how much we can control our self-presentation. This is partly because of a phenomenon called behavioral leakage, in which our true selves seep

out via unconscious body

language: a subtle look

away at a moment when an extrovert would have made eye contact, or a skillful turn of the conversation by a lecturer that places the burden of talking on the audience when an extroverted speaker would have held the floor a little longer. How was it that some of Lippa's pseudo-extroverts came so close to the scores

of *true* extroverts? It turned out that the introverts who were especially good at acting like extroverts tended to score high for a trait that psychologists call "selfmonitoring." Self-monitors are highly skilled at modifying their behavior to the social demands of a situation. They look for cues to tell them how to

act. When in Rome, they do as the Romans do, according to the psychologist Mark Snyder, author of *Public* Appearances, Private Realities, and creator of the Self-Monitoring Scale. One of the most effective self-monitors I've ever met is a man named Edgar, a well-known and much-beloved fixture on

the New York social circuit. He and his wife host or attend fund-raisers and other social events seemingly every weeknight. He's the kind of enfant terrible whose latest antics are a favorite topic of conversation. But Edgar is an avowed introvert. "I'd much rather sit and read and think about things than talk to

people," he says. Yet talk to people he does. Edgar was raised in a highly social family that expected him to selfmonitor, and he's motivated to do so. "I love politics," he says. "I love policy, I love making things happen, I want to change the world in my own way. So I do stuff that's artificial. I don't

really like being the guest at someone else's party, because then I have to be entertaining. But I'll host parties because it puts you at the center of things without actually being a social person." When he does find himself at other people's parties, Edgar goes to great lengths to play his role. "All through college,

and recently even, before I ever went to a dinner or cocktail party, I would have an index card with three to five relevant, amusing anecdotes. I'd come up with them during the day—if something struck me I'd jot it down. Then, at dinner, I'd wait for the right opening and launch in. Sometimes I'd have to go to the

bathroom and pull out my cards to remember what my little stories were." Over time, though, Edgar stopped bringing index cards to dinner parties. He still considers himself an introvert, but he grew so deeply into his extroverted role that telling anecdotes started to come naturally to him. Indeed, the highest self-

monitors not only tend to be good at producing the desired effect and emotion in a given social situation —they also experience less stress while doing so. In contrast to the Edgars of the world, low selfmonitors base their behavior on their own internal compass. They have a smaller repertoire of social behaviors and

masks at their disposal. They're less sensitive to situational cues, like how many anecdotes you're expected to share at a dinner party, and less interested in role-playing, even when they know what the cues are. It's as if low self-monitors (LSMs) and high self-monitors (HSMs) play to different audiences, Snyder has

If you want to know how strong a self-monitor you are, here are a few questions from Snyder's Self-Monitoring Scale:

said: one inner, the other

 When you're uncertain how to act in a social situation, do you look to the behavior of others for

to choose movies, books, or music? In different situations

Do you often seek the

advice of your friends

cues?

- and with different people, do you often act like very different people? Do you find it easy to
- imitate other people?
- Can you look someone

lie with a straight face if for a right end?
Do you ever deceive

in the eye and tell a

- people by being friendly when really you dislike them?Do you put on a show
- bo you put on a snow to impress or entertain people?Do you sometimes
- Do you sometimes appear to others to be experiencing deeper

emotions than you actually are?

The more times you

answered "yes" to these

questions, the more of a

high self-monitor you are.

Now ask yourself these questions:

• Is your behavior usually an expression of your true inner

- feelings, attitudes, and beliefs?Do you find that you
- can only argue for ideas that you already believe?Would you refuse to

change your opinions,

things, in order to please someone else or win their favor?Do you dislike games

or the way you do

improvisational acting?
Do you have trouble

like charades or

changing your
behavior to suit
different people and
different situations?

The more you tended to answer "yes" to this second set of questions, the more of a *low* self-

monitor you are. When Professor Little introduced the concept of self-monitoring to his personality psychology classes, some students got very worked up about whether it was ethical to be a high self-monitor. A few "mixed" couples— HSMs and LSMs in love even broke up over it, he was told. To high self-

monitors, low selfmonitors can seem rigid and socially awkward. To low self-monitors, high self-monitors can come across as conformist and deceptive—"more pragmatic than principled," in Mark Snyder's words. Indeed, HSMs have been found to be better liars than LSMs, which would seem

support the moralistic stance taken by low selfmonitors. But Little, an ethical and sympathetic man who happens to be an extremely high selfmonitor, sees things differently. He views selfmonitoring as an act of modesty. It's about

accommodating oneself to

situational norms, rather

than "grinding down everything to one's own needs and concerns." Not all self-monitoring is based on acting, he says, or on working the room. A more introverted version may be less concerned with spotlight-seeking and more with the avoidance of social faux pas. When Professor Little makes a great speech, it's partly

because he's selfmonitoring every moment, continually checking his audience for subtle signs of pleasure or boredom and adjusting his presentation to meet its needs.

So if you *can* fake it, if you master the acting skills,

the attention to social nuance, and the willingness to submit to social norms that selfmonitoring requires, should you? The answer is that a Free Trait strategy can be effective when used judiciously, but disastrous if overdone. Recently I spoke on a panel at Harvard Law School. The occasion was

the fifty-fifth anniversary of women being admitted to the law school. Alumnae from all over the country gathered on campus to celebrate. The subject of the panel was "In a Different Voice: Strategies for Powerful Self-Presentation." There were four speakers: a trial lawyer, a judge, a publicspeaking coach, and me.

I'd prepared my remarks carefully; I knew the role I wanted to play. The public-speaking coach went first. She talked about how to give a talk that knocks people's socks off. The judge, who happened to be Korean-American, spoke of how frustrating it is when people assume that all Asians are quiet and

studious when in fact she's outgoing and assertive. The litigator, who was petite and blond and feisty as hell, talked about the time she conducted a cross-examination only to be admonished by a judge to "Back down, tiger!" When my turn came, I aimed my remarks at the

women in the audience

who didn't see themselves

as tigers, myth-busters, or sock-knocker-offers. I said that the ability to negotiate is not inborn, like blond hair or straight teeth, and it does not belong exclusively to the table-pounders of the world. Anyone can be a great negotiator, I told them, and in fact it often pays to be quiet and gracious, to listen more

than talk, and to have an instinct for harmony rather than conflict. With this style, you can take positions aggressive without inflaming your counterpart's ego. And by listening, you can learn what's truly motivating the person you're negotiating with and come up with creative solutions that satisfy both parties.

I also shared some psychological tricks for feeling calm and secure intimidating during situations, such as paying attention to how your face and body arrange themselves when you're feeling genuinely confident, and adopting those same positions when it comes time to fake it. Studies show that taking simple physical steps—like smiling—makes us feel stronger and happier, while frowning makes us feel worse. Naturally, when the panel was over and the audience member came around to chat with the panelists, it was the introverts and pseudoextroverts who sought me out. Two of those women

stand out in my mind. The first was Alison, a trial lawyer. Alison was slim and meticulously groomed, but her face was pale, pinched, and unhappy-looking. She'd been a litigator at the same corporate law firm for over a decade. Now she was applying for general counsel positions at various companies, which

seemed a logical next step, except that her heart clearly wasn't in it. And sure enough, she hadn't gotten a single job offer. On the strength of her credentials, she was advancing to the final round of interviews, only to be weeded out at the last minute. And she knew why, because the headhunter who'd coordinated

her interviews gave the same feedback each time: she lacked the right personality for the job. Alison, a self-described introvert, looked pained as she related this damning judgment. The second alumna, Jillian, held a senior position at an environmental advocacy organization that she

loved. Jillian came across as kind, cheerful, and down-to-earth. She was fortunate to spend much of her time researching and writing policy papers on topics she cared about. Sometimes, though, she had to chair meetings and presentations. make Although she felt deep satisfaction after these meetings, she didn't enjoy

the spotlight, and wanted my advice on staying cool when she felt scared. So what was the difference between Alison and Jillian? Both were pseudo-extroverts, and you might say that Alison was trying and failing where Jillian was succeeding. But Alison's problem was actually that she was acting out of character in

the service of a project she didn't care about. She didn't love the law. She'd chosen to become a Wall Street litigator because it seemed to her that this was what powerful and successful lawyers did, so her pseudo-extroversion was not supported by deeper values. She was not telling herself, I'm doing this to advance work I care

about deeply, and when the work is done I'll settle back into my true self. Instead, her interior monologue was The route to success is to be the sort of person I am not. This is not selfmonitoring; it is selfnegation. Where Jillian acts out of character for the sake of worthy tasks that temporarily require a orientation, different

is something fundamentally wrong with who she is. It's not always so easy, it turns out, to identify your core personal projects. And it can be especially tough for introverts, who have

spent so much of their

lives conforming to

extroverted norms that by

the time they choose a

Alison believes that there

career, or a calling, it feels perfectly normal to ignore their own preferences. may be Thev uncomfortable in law school or nursing school or in the marketing department, but no more so than they were back in middle school or summer camp. I, too, was once in this I position. enjoyed practicing corporate law, and for a while I convinced myself that I was an attorney at heart. I badly wanted to believe it, since I had already invested years in law school and on-the-job training, and much about Wall Street law was alluring. My colleagues were intellectual, kind, and considerate (mostly). I made a good living. I had an office on the fortysecond floor of skyscraper with views of the Statue of Liberty. I enjoyed the idea that I could flourish in such a high-powered environment. And I was pretty good at asking the "but" and "what if" questions that are central to the thought processes of most lawyers. It took me almost a decade to understand that the law was never my personal project, not even close. Today I can tell you unhesitatingly what is: my husband and sons; writing; promoting the values of this book. Once I realized this, I had to make a change. I look back on my years as a Wall Street

lawyer as time spent in a foreign country. It was absorbing, it was exciting, and I got to meet a lot of interesting people whom I never would have known otherwise. But I was always an expatriate. Having spent so much time navigating my own career transition and counseling others through theirs, I have found that identifying your own core personal projects.

First, think back to what you loved to do when you were a child. How did you answer the question of what you wanted to be

there are three key steps to

what you wanted to be when you grew up? The specific answer you gave may have been off the mark, but the underlying impulse was not. If you

wanted to be a fireman, what did a fireman mean to you? A good man who rescued people in distress? A daredevil? Or the simple pleasure of operating a truck? If you wanted to be a dancer, was it because you got to wear a costume, or because you craved applause, or was it the pure joy of twirling around at lightning speed? You may have known more about who you were then than you do now. Second, pay attention to the work you gravitate to. At my law firm I never once volunteered to take on an extra corporate legal assignment, but I did spend a lot of time doing pro bono work for a

leadership organization. I

nonprofit

women's

also sat on several law firm committees dedicated to mentoring, training, and personal development for young lawyers in the firm. Now, as you can probably tell from this book, I am not the committee type. But the goals of those committees lit me up, so that's what I did. Finally, pay attention to what you envy. Jealousy is an ugly emotion, but it tells the truth. You mostly envy those who have what you desire. I met my own envy after some of my former law school classmates got together and compared notes on alumni career tracks. They spoke with admiration and, yes, jealousy, of a classmate who argued regularly before the

Supreme Court. At first I felt critical. More power to that classmate! I thought, congratulating myself on my magnanimity. Then I realized that my largesse came cheap, because I didn't aspire to argue a case before the Supreme Court, or to any of the other accolades of lawyering. When I asked myself whom I did envy,

instantly. My college classmates who'd grown up to be writers or psychologists. Today I'm pursuing my own version of both those roles.

the answer came back

But even if you're stretching yourself in the

service of a core personal project, you don't want to act out of character too much, or for too long. Remember those trips Professor Little made to the restroom in between speeches? Those hideout sessions tell us that, paradoxically, the best way to act out of character is to stay as true to yourself as you possibly

can—starting by creating as many "restorative niches" as possible in your daily life. "Restorative niche" is Professor Little's term for the place you go when you want to return to your true self. It can be a physical place, like the path beside the Richelieu River, or a temporal one, like the quiet breaks you plan

between sales calls. It can mean canceling your social plans on the weekend before a big meeting at work, practicing yoga or meditation, or choosing email over an in-person meeting. (Even Victorian ladies, whose job effectively was to be available to friends and family, were expected to withdraw for a rest each

afternoon.) You choose a restorative niche when you close the door to your private office (if you're lucky enough to have one) in between meetings. You can even create a restorative niche

create a restorative niche during a meeting, by carefully selecting where you sit, and when and how you participate. In his memoir *In an Uncertain*

World, Robert Rubin, the treasury secretary under Clinton, **President** describes how he "always liked to be away from the center, whether in the Oval Office or the chief of staff's office, where my regular seat became the foot of the table. That little bit of physical distance felt more comfortable to me, and let me read the room

and comment from a perspective ever so slightly removed. I didn't worry about being overlooked. No matter how far away you were sitting or standing, you could always just say, 'Mr. President, I think this, that, or the other.' " We would all be better off if, before accepting a new job, we evaluated the

presence or absence of restorative niches as carefully as we consider the family leave policy or health insurance plans. Introverts should ask themselves: Will this job allow me to spend time on in-character activities like, for example, reading, strategizing, writing, and researching? Will I have a private workspace or be

subject to the constant demands of an open office plan? If the job doesn't give me enough restorative niches, will I have enough free time on evenings and weekends to grant them to myself? Extroverts will want to look for restorative niches, too. Does the job involve talking, traveling, and meeting new people? Is

the office stimulating enough? If the job isn't a perfect fit, are the hours flexible enough that I can blow off steam after work? Think through the job description carefully. One highly extroverted woman interviewed was excited about a position as the "community organizer" for a parenting website, until

she realized that she'd be sitting by herself behind a computer every day from nine to five. Sometimes people find restorative niches in professions where you'd least expect them. One of my former colleagues is a trial lawyer who spends most of her time in solitude, splendid researching and writing

legal briefs. Because most of her cases settle, she goes to court rarely enough that she doesn't mind exercising her pseudoextroversion skills when she has to. An introverted administrative assistant I interviewed parlayed her office experience into a work-from-home Internet business that serves as a clearinghouse

coaching service for "virtual assistants." And in the next chapter we'll meet a superstar salesman who broke his company's sales records year after year by insisting on staying true to his introverted self. All three of these people have decidedly taken extroverted fields and reinvented them in their own image, so that they're

acting in character most of the time, effectively turning their workdays into one giant restorative niche. restorative Finding niches isn't always easy. You might want to read quietly by the fire on Saturday nights, but if your spouse wishes you'd spend those evenings out with her large circle of

friends, then what? You might want to retreat to the oasis of your private office in between sales calls, but what if your company just switched over to an open office plan? If you plan to exercise free traits, you'll need the help of friends, family, and colleagues. Which is why Professor Little calls, with great

passion, for each of us to enter into "a Free Trait Agreement." This is the final piece of Free Trait Theory. A Free Agreement **Trait** acknowledges that we'll each act out of character some of the time—in exchange for being ourselves the rest of the time. It's a Free Trait Agreement when a wife

who wants to go out every Saturday night and husband who wants to relax by the fire work out a schedule: half the time we'll go out, and half the time we'll stay home. It's a Free Trait Agreement when you attend your extroverted best friend's shower, wedding celebration, engagement and bachelorette party, but

she understands when you skip out on the three days' worth of group activities leading up to the wedding itself. It's often possible to Free Trait negotiate Agreements with friends and lovers, whom you want to please and who love your true, incharacter self. Your work life is a little trickier, since

most businesses still don't think in these terms. For now, you may have to proceed indirectly. Career counselor Shoya Zichy told me the story of one of her clients, an introverted financial analyst who worked in an environment where she was either presenting to clients or talking to colleagues who continually cycled in and

out of her office. She was so burned out that she planned to quit her job until Zichy suggested that she negotiate for downtime. Now, this woman worked for a Wall Street bank, not a culture conducive to a frank discussion about the needs of the highly introverted. So she carefully considered how to frame her request. She told her boss that the very nature of her work strategic analysis required quiet time in which to concentrate. Once she made her case empirically, it was easier to ask for what she needed psychologically: two days a week of working from home. Her boss said yes. But the person with

whom you can best strike a Free Trait Agreement after overcoming his or her resistance—is yourself. Let's say you're single. You dislike the bar scene, but you crave intimacy, and you want to be in a long-term relationship in which you can share cozy evenings and long conversations with your partner and a small circle

of friends. In order to achieve this goal, you make an agreement with yourself that you will push yourself to go to social events, because only in this way can you hope to meet a mate and reduce the number of gatherings you attend over the long term. But while you pursue this goal, you will attend only as many events as

you can comfortably stand. You decide in advance what that amount is—once a week, once a month, once a quarter. And once you've met your quota, you've earned the right to stay home without feeling guilty. Or perhaps you've always dreamed building your own small company, working from

home so you can spend more time with your spouse and children. You know you'll need to do a certain amount of networking, so you make the following Free Trait Agreement with yourself: you will go to one schmooze-fest per week. At each event you will have at least one genuine conversation (since this

comes easier to you than "working the room") and follow up with that person the next day. After that, you get to go home and not feel bad when you turn down other networking opportunities that come your way.

Professor Little knows all too well what happens when you lack a Free Trait Agreement with yourself. Apart from occasional excursions to the Richelieu River or the restroom, he once followed a schedule that combined the most energy-zapping elements of both introversion and extroversion. On the extroverted side, his days consisted of nonstop lectures, meetings with students, monitoring a student discussion group, and writing all those letters of recommendation. On the introverted side, he took those responsibilities very, very seriously. "One way of looking at this," he says now, "is to say that I was heavily engaged in extrovert-like

behaviors, but, of course, had I been a real extrovert I would have done quicker, less nuanced letters of recommendation, would not have invested the time in preparation of lectures, and the social events would not have drained me." He also suffered from a certain amount of what he calls "reputational confusion,"

in which he became known for being over-thetop effervescent, and the reputation fed on itself. This was the persona that others knew, so it was the persona he felt obliged to serve up. Naturally, Professor Little started to burn out, not only mentally but also physically. Never mind. He loved his students, he

loved his field, he loved it all. Until the day that he ended up in the doctor's office with a case of double pneumonia that he'd been too busy to notice. His wife had dragged him there against his will, and a good thing too. According to the doctors, if she had waited much longer, he would have died.

Double pneumonia and an overscheduled life can happen to anyone, of course, but for Little, it was the result of acting out of character for too long and without enough restorative niches. When your conscientiousness impels you to take on more than you can handle, you begin to lose interest, even in tasks that normally

engage you. You also risk your physical health. "Emotional labor," which is the effort we make to control and change our emotions, is associated with stress, burnout, and even physical symptoms like an increase in cardiovascular disease. Professor Little believes that prolonged acting out of character may also

increase autonomic nervous system activity, which can, in turn, immune compromise functioning. One noteworthy study suggests that people who negative suppress emotions tend to leak those emotions later in unexpected ways. The psychologist Judith Grob asked people to hide their

emotions as she showed them disgusting images. She even had them hold pens in their mouths to prevent them from frowning. She found that this group reported feeling less disgusted by the pictures than did those who'd been allowed to react naturally. Later, however, the people who hid their emotions suffered

side effects. Their memory was impaired, and the negative emotions they'd suppressed seemed to color their outlook. When Grob had them fill in the missing letter to the word "gr_ss," for example, they were more likely than others to offer "gross" rather than "grass." "People who tend to [suppress their negative

emotions] regularly," concludes Grob, "might start to see the world in a more negative light." That's why these days Professor Little is in restorative mode, retired from the university and reveling in his wife's company in their house in the Canadian countryside. Little says that his wife, Sue Phillips, the director of

the School of Public Policy and Administration Carleton University, is so much like him that they don't need a Free Trait Agreement to govern their relationship. But his Free Trait Agreement with himself provides that he do his remaining "scholarly and professional deeds with good grace," but not "hang around longer than necessary."

Then he goes home and snuggles by the fire with Sue.

10 THE COMMUNICATION GAP

How to Talk to Members of the Opposite Type

The meeting of two personalities is like the contact of two chemical substances; if there is any reaction, both are transformed.

If introverts and extroverts are the north and south of temperament—opposite ends of a single spectrum—then how can they possibly get along? Yet the

two types are often drawn

friendship, business, and

to

each other—in

especially romance. These pairs can enjoy great excitement and mutual admiration, a sense that each completes the other. One tends to listen, the other to talk; one is sensitive to beauty, but also to slings and arrows, while the other barrels cheerfully through his days; one pays the bills and the other arranges the

can also cause problems when members of these unions pull in opposite directions. Greg and Emily are an example of an introvertextrovert couple who love and madden each other in equal measure. Greg, who

just turned thirty, has a

bounding gait, a mop of

dark hair continually

children's play dates. But it

falling over his eyes, and an easy laugh. Most people would describe him as gregarious. Emily, mature twenty-seven, is as self-contained as Greg is expansive. Graceful and soft-spoken, she keeps her auburn hair tied in a chignon, and often gazes at people from under lowered lashes. Greg and **Emily**

complement each other beautifully. Without Greg, Emily might forget to leave the house, except to go to work. But without Emily, Greg would feel paradoxically for such a social creature—alone. Before they met, most of Greg's girlfriends were extroverts. He says he those enjoyed relationships, but never

got to know his girlfriends well, because they were always "plotting how to be with groups of people." He speaks of Emily with a kind of awe, as if she has access to a deeper state of being. He also describes her as "the anchor" around which his world revolves. Emily, for her part, treasures Greg's ebullient nature; he makes her feel

happy and alive. She has always been attracted to extroverts, who she says "do all the work of making conversation. For them, it's not work at all." The trouble is that for most of the five years they've been together, Greg and Emily have been having one version or another of the same fight. Greg, a music promoter

with a large circle of friends, wants to host dinner parties every Friday —casual, animated gettogethers with heaping bowls of pasta and flowing bottles of wine. He's been giving Friday-night dinners since he was a senior in college, and they've become a highlight of his week and a treasured piece of his identity.

Emily has come to dread these weekly events. A hardworking staff attorney for an art museum and a very private person, the last thing she wants to do when she gets home from work is entertain. Her idea of a perfect start to the weekend is a quiet evening at the movies, just her and Greg.

irreconcilable difference: Greg wants fifty-two dinner parties a year, Emily wants zero. Greg says that Emily should make more of an effort. He accuses her of being antisocial. "I am social," she says. "I love you, I love my family, I love my close friends. I just don't love dinner parties. People don't really

relate at those parties they just socialize. You're lucky because I devote all my energy to you. You spread yours around to everyone." But Emily soon backs off, partly because she hates fighting, but also because she doubts herself. Maybe I am antisocial, she thinks. Maybe there is

something wrong with me.

Whenever she and Greg argue about this, she's flooded with childhood memories: how school was tougher for her than for her emotionally hardier younger sister; how she seemed to worry more than other people did about social issues, like how to say no when someone asked her to get together after school and

she preferred to stay home. Emily had plenty of friends—she's always had a talent for friendship but she never traveled in packs. Emily has suggested a compromise: What if Greg gives his dinner parties whenever she's out of town visiting her sister? But Greg doesn't want to host dinners by himself.

He loves Emily and wants to be with her, and so does everyone else, once they get to know her. So why does Emily withdraw? This question, for Greg, is more than mere pique. Being alone for him is a kind of Kryptonite; it makes him feel weak. He had looked forward to a married life of shared adventures. He'd imagined

being part of a couple at the center of things. And he'd never admitted it to himself, but for him being married meant never having to be by himself. But now Emily is saying that he should socialize without her. He feels as if she's backing out of a fundamental part of their marriage contract. And he believes that something is

indeed wrong with his wife.

Is something wrong with me?
It's not surprising that
Emily asks herself this

question, or that Greg aims this charge at her. Probably the most common—and damagingmisunderstanding about personality type is that introverts are antisocial and extroverts are prosocial. But as we've seen, neither formulation is correct; introverts and extroverts are differently social. What psychologists call "the need for intimacy" is present in introverts and extroverts alike. In fact, people who

value intimacy highly don't tend to be, as the noted psychologist David Buss puts it, "the loud, outgoing, life-of-the-party extrovert." They are more likely to be someone with a select group of close friends, who prefers "sincere and meaningful conversations over wild parties." They are more likely to be someone like Emily. Conversely, extroverts do not necessarily seek closeness from their socializing. "Extroverts seem to need people as a forum to fill needs for social impact, just as a general needs soldiers to fill his or her need to lead," the psychologist William Graziano told me.

"When extroverts show up

at a party, everyone knows they are present." Your degree of extroversion seems to influence how many friends you have, in other words, but not how good a friend you are. In a study of 132 college students at Humboldt University in Berlin, the psychologists Jens Aspendorf and Susanne Wilpers set out to

different personality traits on students' relationships with their peers and families. They focused on the so-called Big Five Introversiontraits: Extroversion; Agreeableness; Openness Experience; to Conscientiousness; and Emotional Stability. (Many personality psychologists

understand the effect of

believe that human personality can be boiled down to these five characteristics.) Aspendorf and Wilpers predicted that the extroverted students would have an easier time striking up new friendships than the introverts, and this was indeed the case. But if the introverts were truly antisocial and

extroverts pro-social, then you'd suppose that the students with the most harmonious relationships would also be highest in extroversion. And this was not the case at all. Instead, the students whose relationships were freest of conflict had high scores for agreeableness. Agreeable people are warm, supportive, and loving;

personality psychologists have found that if you sit them down in front of a computer screen of words, they focus longer than others do on words like caring, console, and help, and a shorter time on words like abduct, assault, and harass. Introverts and extroverts are equally likely to be agreeable; there is no correlation

between extroversion and agreeableness. This explains why some extroverts love the stimulation of socializing but don't get along particularly well with those closest to them. It also helps explain why introverts—like some Emily, whose talent for friendship suggests that she's a highly agreeable

herself—lavish type attention on their family and close friends but dislike small talk. So when Greg labels Emily "antisocial," he's off base. Emily nurtures her marriage in just the way that you'd expect an agreeable introvert to do, making Greg the center of her social universe. Except when she

doesn't. Emily has a demanding job, and sometimes when she gets home at night she has little energy left. She's always happy to see Greg, but sometimes she'd rather sit next to him reading than go out for dinner or make animated conversation. Simply to be in his company is enough. For Emily, this is perfectly that she makes an effort for her colleagues and not for him. This was a painfully common dynamic in the introvert-extrovert couples I interviewed: the introverts desperately craving downtime and understanding from their

partners, the extroverts

longing for company, and

natural, but Greg feels hurt

resentful that others seemed to benefit from their partners' "best" selves. It can be hard for extroverts to understand how badly introverts need to recharge at the end of a busy day. We all empathize with a sleepdeprived mate who comes home from work too tired to talk, but it's harder to

grasp that social overstimulation can be just as exhausting. It's also hard for introverts to understand just how hurtful their silence can be. I interviewed a woman named Sarah, a bubbly and dynamic high school English teacher married to Bob, an introverted law school dean who spends

his days fund-raising, then collapses when he gets home. Sarah cried tears of frustration and loneliness as she told me about her marriage. "When he's on the job, he's amazingly engaging," she said. "Everyone tells me that he's so funny and I'm so lucky to be married to him. And I want to throttle them. Every night,

as soon as we're done eating, he jumps up and cleans the kitchen. Then he wants to read the paper alone and work on his photography by himself. At around nine, he comes into the bedroom and wants to watch TV and be with me. But he's not really with me even then. He wants me to lay my head on his shoulder while

we stare at the TV. It's a grownup version parallel play." Sarah is trying to convince Bob to make a career change. "I think we'd have a great life if he had a job where he could sit at the computer all day, but he's consistently fund-raising," she says. In couples where the man is introverted and the

woman extroverted, as with Sarah and Bob, we often mistake personality conflicts for gender difference, then trot out the conventional wisdom that "Mars" needs to retreat to his cave while "Venus" prefers to interact. But whatever the reason for these differences in social needs—whether gender or temperament—

what's important is that it's possible to work through them. In The Audacity of Hope, for example, President Obama confides that early in his marriage to Michelle, he was working on his first book and "would often spend the evening holed up in my office in the back of our railroad apartment; what I considered normal

lonely." He attributes his own style to the demands of writing and to having been raised mostly as an only child, and then says that he and Michelle have learned over the years to meet each other's needs, and to see them as legitimate.

often left Michelle feeling

It can also be hard for introverts and extroverts to understand each other's ways of resolving differences. One of my was clients immaculately dressed lawyer named Celia. Celia wanted a divorce, but dreaded letting her husband know. She had good reasons for her decision but anticipated

that he would beg her to stay and that she would crumple with guilt. Above all, Celia wanted to deliver her news compassionately. We decided to role-play their discussion, with me acting as her husband. "I want to end this marriage," said Celia. "I mean it this time." "I've been doing everything I can to hold

things together," I pleaded. "How can you do this to me?" Celia thought for a minute. "I've spent a lot of time thinking this through, and I believe this is the right decision," she replied in a wooden voice. "What can I do to change your mind?" I asked.

"Nothing," said Celia flatly. Feeling for a minute what her husband would feel, I was dumbstruck. She was so rote, so dispassionate. She was about to divorce me—me, her husband of eleven years! Didn't she care? I asked Celia to try again, this time with

emotion in her voice.

"I can't," she said. "I can't do it." But she did. "I want to end this marriage," she repeated, her voice choked with sadness. She began to weep uncontrollably. Celia's problem was not lack of feeling. It was how to show her emotions without losing control.

Reaching for a tissue, she

quickly gathered herself,

and went back into crisp, dispassionate lawyer mode. These were the two gears to which she had ready access overwhelming feelings or detached self-possession. I tell you Celia's story because in many ways she's a lot like Emily and many introverts I've interviewed. Emily is talking to Greg about

dinner parties, not divorce, but her communication style echoes Celia's. When she and Greg disagree, her voice gets quiet and flat, her manner slightly distant. What she's trying to do is minimize aggression—Emily uncomfortable with anger —but she appears to be receding emotionally. Meanwhile, Greg does just

the opposite, raising his voice and sounding belligerent as he gets ever more engaged in working out their problem. The more Emily seems to withdraw, the more alone, then hurt, then enraged Greg becomes; the angrier he gets, the more hurt and distaste Emily feels, and the deeper she retreats. Pretty soon they're locked

which they can't escape, partly because both spouses believe they're arguing in an appropriate manner. This dynamic shouldn't surprise anyone familiar with the relationship between personality and conflict resolution style.

Just as men and women

often have different ways

in a destructive cycle from

of resolving conflict, so do introverts and extroverts; studies suggest that the former tend to be conflictavoiders, while the latter are "confrontive copers," at ease with an up-front, even argumentative style of disagreement. These are diametrically opposite approaches, so they're bound to create friction. If Emily didn't mind conflict so much, she might not react so strongly to Greg's head-on approach; if Greg were milder-mannered, he might appreciate Emily's attempt to keep a lid on things. When people have compatible styles of conflict, a disagreement can be an occasion for each partner to affirm the other's point of view. But

Greg and Emily seem to understand each other a little less each time they argue in a way that the other disapproves of. Do they also like each other a little less, at least for the duration of the fight? An illuminating study by the psychologist William Graziano suggests that the answer to this question might be yes.

Graziano divided a group of sixty-one male students into teams to play a simulated football game. Half the participants were assigned to a cooperative game, in which they were told, "Football is useful to us because to be successful in football, team members have to work well together." The other half were assigned to a game

between teams. Each student was then shown slides and fabricated biographical information about his teammates and his competitors on the other team, and asked to rate how he felt about the other players. The differences between introverts and extroverts were remarkable. The

emphasizing competition

introverts assigned to the cooperative game rated all players—not just their competitors, but also their teammates—more positively than the introverts who played the competitive game. The extroverts did just the opposite: they rated all players more positively when they played the competitive version of the

These findings game. suggest something very important: introverts like people they meet friendly contexts: extroverts prefer those they compete with. A very different study, in which robots interacted with stroke patients during rehabilitation physical exercises, yielded strikingly similar results.

Introverted patients responded better and interacted longer with robots that were designed to speak in a soothing, gentle manner: "I know it is hard, but remember that it's for your own good," and, "Very nice, keep up the good work." Extroverts, on the other hand, worked harder for robots that used more bracing, aggressive language: "You can do more than that, I know it!" and "Concentrate on your exercise!" These findings suggest that Greg and Emily face an interesting challenge. If Greg likes people more when they're behaving forcefully or competitively, and if Emily feels the same way about nurturing,

cooperative people, then how can they reach a compromise about their dinner-party impasse—and get there in a loving way? An intriguing answer comes from a University of Michigan business school study, not of married couples with opposite personality styles, but of negotiators from different cultures—in this case,

Asians and Israelis. Seventy-six MBA students from Hong Kong and Israel were asked to imagine they were getting married in a few months and had to finalize arrangements with a catering company for the wedding reception. This "meeting" took place by video. Some of the students were shown a video

which the business manager was friendly and smiley; the others saw a video featuring an irritable and antagonistic manager. But the caterer's message was the same in both cases. Another couple was interested in the same wedding date. The price had gone up. Take it or leave it. The students from Hong

Kong reacted very differently from the Israeli students. The Asians were far more likely to accept a proposal from the friendly business manager than from the hostile one; only 14 percent were willing to work with the difficult manager, while 71 percent accepted the deal from the smiling caterer. But the Israelis were just as likely

to accept the deal from either manager. In other words, for the Asian negotiators, style counted as well as substance, while the Israelis were more focused on the information being conveyed. They were unmoved by a display of either sympathetic *or* hostile emotions. The explanation for this

stark difference has to do with how the two cultures define respect. As we saw in chapter 8, many Asian people show esteem by minimizing conflict. But Israelis, say the researchers, "are not likely to view [disagreement] as a sign of disrespect, but as a signal that the opposing party is concerned and is passionately engaged in

the task." We might say the same of Greg and Emily. When Emily lowers her voice and flattens her affect during fights with Greg, she thinks she's being respectful by taking the trouble not to let her negative emotions show. But Greg thinks she's checking out or, worse, that she doesn't give a

Greg lets his anger fly, he assumes that Emily feels, as he does, that this is a healthy and honest expression of their deeply committed relationship. But to Emily, it's as if Greg has suddenly turned on

her.

damn. Similarly, when

In her book Anger: The Misunderstood Emotion, Carol Tavris recounts a story about a Bengali cobra that liked to bite passing villagers. One day a swami-a man who has achieved self-mastery convinces the snake that biting is wrong. The cobra vows to stop immediately, and does. Before long, the village boys grow unafraid

of the snake and start to abuse him. Battered and bloodied, the snake complains to the swami that this is what came of keeping his promise. "I told you not to bite," said the swami, "but I did not tell you not to hiss." "Many people, like the swami's cobra, confuse the hiss with the bite," writes Tavris.

Many people—like Greg and Emily. Both have much to learn from the swami's story: Greg to stop biting, Emily that it's OK for him—and for her—to hiss. Greg can start by changing his assumptions about anger. He believes, as most of us do, that venting anger lets off steam. The "catharsis

hypothesis"—that aggression builds up inside us until it's healthily released—dates back to the Greeks, was revived by Freud, and gained steam during the "let it all hang out" 1960s of punching bags and primal screams. But the catharsis hypothesis is a myth—a plausible one, an elegant one, but a myth

nonetheless. Scores of studies have shown that venting doesn't soothe anger; it fuels it. We're best off when we don't allow ourselves to go to our angry place. Amazingly, neuroscientists have even found that people who use Botox, which prevents them from making angry faces, seem to be less anger-prone than

those who don't, because the very act of frowning triggers the amygdala to process negative emotions. And anger is not just damaging in the moment; for days afterward, venters have repair work to do with their partners. Despite the popular fantasy of fabulous sex fighting, many after say that it takes couples

time to feel loving again. What can Greg do to calm down when he feels his fury mounting? He can take a deep breath. He can take a ten-minute break. And he can ask himself whether the thing that's making him so angry is really that important. If not, he might let it go. But if it is, then he'll want to phrase his needs not as

personal attacks but as neutral discussion items. "You're so antisocial!" can become "Can we figure out a way to organize our weekends that works for us both?" This advice would hold even if Emily weren't a sensitive introvert (no one likes to feel dominated or disrespected), but it so happens that Greg's

married to a woman who is especially put off by anger. So he needs to respond to the conflictavoidant wife he has, not the confrontational one that he wishes, at least in the heat of the moment, he were married to. Now let's look at Emily's side of the equation. What could she be doing differently? She's right to

protest when Greg bites when he attacks unfairly but what about when he hisses? Emily might address her own counterproductive reactions to anger, among them her tendency to slip into a cycle of guilt and defensiveness. We know from chapter 6 that many introverts are prone from earliest childhood

strong guilt feelings; we also know that we all tend to project our own reactions onto others. Because conflict-avoidant Emily would never "bite" or even hiss unless Greg had done something truly horrible, on some level she processes his bite to mean that she's terribly guilty of something, anything, who knows what? Emily's

that she tends to deny the validity of all of Greg's claims—the legitimate ones along with those exaggerated by anger. This, of course, leads to a vicious cycle in which she shuts down her natural empathy and Greg feels unheard. So Emily needs to accept that it's OK to be in the

guilt feels so intolerable

wrong. At first she may have trouble puzzling out when she is and when she isn't; the fact that Greg expresses his grievances with such passion makes it hard to sort this out. But Emily must try not to get dragged into this morass. When Greg makes legitimate points, she should acknowledge them, not only to be a good

partner to her husband, but also to teach herself that it's OK to have transgressed. This will make it easier for her not to feel hurt—and to fight back—when Greg's claims are unjustified. Fight back? But Emily hates fighting. That's OK. She needs to become more comfortable with the sound of her own

hiss. Introverts may be hesitant to cause disharmony, but, like the passive snake, they should be equally worried about encouraging vitriol from their partners. And fighting back may not invite retaliation, as Emily fears; instead it may encourage Greg to back off. She need not put on a huge display. Often, a firm

"that's not OK with me" will do.

Every once in a while, Emily might also want to step outside her usual

comfort zone and let her own anger fly. Remember, for Greg, heat means connection. In the same way that the extroverted players in the football game study felt warmly toward their fellow competitors, so Greg may feel closer to Emily if she can take on just a little of the coloration of a pumped-up player, ready to take the field. Emily can also overcome her own distaste for Greg's behavior by reminding herself that he's not really as aggressive as he seems. John, an introvert I interviewed who has a

great relationship with his fiery wife, describes how he learned to do this after twenty-five years of marriage:

When Jennifer's after me about something, she's really after me. If I went to bed without tidying the kitchen, the next morning she'll shout at

me, "This kitchen is

filthy!" I come in and look around the kitchen. There are three or four cups out; it's not filthy. But the drama with which she imbues such moments is natural to her. That's her way of saying, Gee, when you get a chance I'd appreciate it if you could just tidy up the kitchen a little more. If she did say it that way

to me, I would say, I'd be happy to, and I'm sorry that I didn't do it sooner. But because she comes at me with that twohundred-mile-per-hour freight-train energy, I want to bridle and say, Too bad. The reason I don't is because we've been married for twentyfive years, and I've come to understand that Jennifer didn't put me in a life-threatening situation when she spoke that way.

So what's John's secret

for relating to his forceful wife? He lets her know that her words were unacceptable, but he also tries to listen to their meaning. "I try to tap into

my empathy," he says. "I

take her tone out of the equation. I take out the assault on my senses, and I try to get to what she's trying to say." And what Jennifer is trying to say, underneath her freight-train words, is often quite simple: Respect me. Pay attention to me. Love me. Greg and Emily now have valuable insights about how to talk through their differences. But there's one more question they need to answer: Why exactly do they experience those Friday-night dinner parties so differently? We know that Emily's nervous system probably goes into overdrive when she enters a room full of people. And we know that Greg feels the opposite: propelled toward people, conversations, events. anything that gives him that dopamine-fueled, gofor-it sensation that extroverts crave. But let's dig a little deeper into the anatomy of cocktail-hour chatter. The key to bridging Greg and Emily's differences lies in the details.

V

Some years ago, thirty-two pairs of introverts and extroverts, all of them strangers to each other, chatted on the phone for a few minutes as part of an

experiment conducted by a

neuroscientist named Dr.

Matthew Lieberman, then a graduate student at Harvard. When they hung

up, they were asked to fill detailed out questionnaires, rating how they'd felt and behaved during the conversation. How much did you like conversational your partner? How friendly were you? How much would you like to interact with this person again? They were also asked to put themselves in the

shoes of their conversational partners: How much did your partner like you? How sensitive was she to you? How encouraging? Lieberman and his team compared the answers and also listened in on the conversations and made their own judgments about how the parties felt about each other. They found

that the extroverts were a lot more accurate than the introverts in assessing whether their partner liked talking to them. These findings suggest that extroverts are better at decoding social cues than introverts. At first, this seems unsurprising, writes Lieberman; it echoes the popular assumption that extroverts are better at

reading social situations. The only problem, as Lieberman showed through a further twist to his experiment, is that this assumption is not quite right. Lieberman and his team asked a select group of participants to listen to a tape of the conversations they'd just had—before filling

questionnaire. In this group, he found, there was no difference between introverts and extroverts in their ability to read social cues. Why? The answer is that the subjects who listened to the tape recording were able to decode social cues without having to do anything else at the same time. And introverts are

pretty fine decoders, according to several studies predating the Lieberman experiments. One of these studies actually found that introverts were better decoders than extroverts. But these studies measured how well introverts observe social dynamics, not how well they participate in them.

different set of demands on the brain than observing does. It requires a kind of mental multitasking: the ability to process a lot of short-term information at once becoming without distracted or overly stressed. This is just the sort of brain functioning that extroverts tend to be

Participation places a very

well suited for. In other words, extroverts are sociable because their brains are good at handling competing demands on their attention —which is just what dinner-party conversation involves. In contrast, introverts often feel repelled by social events that force them to attend to many people at once.

Consider that the simplest social interaction between two people requires performing an astonishing array of tasks: interpreting what the other person is saying; reading body language and facial expressions; smoothly taking turns talking and listening; responding to what the other person said; assessing whether

you're being understood; determining whether you're well received, and, if not, figuring out how to improve or remove yourself from the situation. Think of what it takes to juggle all this at once! And that's just a one-on-one conversation. Now imagine the multitasking required in a group setting like a dinner party.

assume the observer role, as when they write novels, or contemplate unified field theory—or fall quiet at dinner parties—they're not demonstrating failure of will or a lack of energy. They're simply doing what they're constitutionally suited for.

So when introverts

helps us understand what trips up introverts socially. It doesn't show us how they can shine. Consider the case of an

The Lieberman experiment

unassuming-looking fellow named Jon Berghoff. Jon is a stereotypical introvert, right down to his physical

right down to his physical appearance: lean, wiry body; sharply etched nose and cheekbones;

thoughtful expression on his bespectacled face. He's not much of a talker, but what he says is carefully considered, especially when he's in a group: "If I'm in a room with ten people and I have a choice between talking and not talking," he says, "I'm the one not talking. When people ask, 'Why aren't you saying anything?' I'm

the guy they're saying it Jon is also a standout salesman, and has been ever since he was a teenager. In the summer of 1999, when he was still a junior in high school, he started working as an entry-level distributor, selling Cutco kitchen products. The job had him going into customers'

homes, selling knives. It was one of the most intimate sales situations imaginable, not in a boardroom or a car dealership, but inside a potential client's kitchen, selling them a product they'd use daily to help put food on the table. Within Jon's first eight weeks on the job, he sold \$50,000 worth of knives.

He went on to be the company's top representative from over 40,000 new recruits that year. By the year 2000, when he was still a high school senior, Jon had generated more than \$135,000 in commissions and had broken more than twenty-five national and regional sales records. Meanwhile, back in high

school, he was still a socially awkward guy who hid inside the library at lunchtime. But by 2002 he'd recruited, hired, and trained ninety other sales reps, and increased territory sales 500 percent over the previous year. Since then, Jon has launched Global Empowerment Coaching, his own personal coaching

and sales training business. To date he's given hundreds of speeches, training seminars, and private consultations to than 30,000 more salespeople and managers. What's the secret of Jon's success? One important clue comes from an experiment by the developmental

psychologist Avril Thorne,

now a professor at the University of California, Santa Cruz. Thorne gathered fifty-two young women—twenty-six introverts and twenty-six extroverts—and assigned them to two different conversational pairings. Each person had one tenminute conversation with a partner of her own type and a second conversation

of equal length with her "dispositional opposite." Thorne's team taped the conversations and asked the participants to listen to a playback tape. This process revealed some surprising findings. The introverts and extroverts participated about equally, giving the lie to the idea that introverts always talk less.

But the introvert pairs tended to focus on one or two serious subjects of conversation, while the extrovert pairs chose lighter-hearted and widerranging topics. Often the introverts discussed problems or conflicts in their lives: school, work, friendships, and so on. Perhaps because of this fondness for "problem

talk," they tended to adopt the role of adviser, taking turns counseling each other on the problem at hand. The extroverts, by contrast, were more likely to offer casual information about themselves that established commonality with the other person: You have a new dog? That's great. A friend of mine has an amazing tank

But the most interesting of Thorne's part experiment was how much the two types appreciated each other. Introverts talking to extroverts chose cheerier topics, reported making conversation more easily, and described conversing with extroverts as a "breath of fresh air."

In contrast, the extroverts

saltwater fish!

felt that they could relax more with introvert partners and were freer to confide their problems. They didn't feel pressure to be falsely upbeat. These are useful pieces of social information. Introverts and extroverts sometimes feel mutually put off, but Thorne's research suggests how much each has to offer the

other. Extroverts need to know that introverts—who often seem to disdain the superficial—may be only too happy to be tugged along to a more lighthearted place; and introverts, who sometimes feel as if their propensity for problem talk makes them a drag, should know that they make it safe for others to get serious.

Thorne's research also helps us to understand Jon Berghoff's astonishing success at sales. He has turned his affinity for serious conversation, and for adopting an advisory role rather than a persuasive one, into a kind of therapy for his prospects. "I discovered early on that people don't buy from me because they understand what I'm selling," explains Jon. "They buy because they feel understood." Jon also benefits from his natural tendency to ask a lot of questions and to listen closely to the answers. "I got to the point where I could walk into someone's house and instead of trying to sell them some knives, I'd ask

a hundred questions in a row. I could manage the entire conversation just by asking the right questions." Today, in his coaching business, Jon does the same thing. "I try to tune in to the radio station of the person I'm working with. I pay attention to the energy they exude. It's easy for me to do that because I'm in my head a lot, anyways." But doesn't salesmanship require the ability to get excited, to pump people up? Not according to Jon. "A lot of people believe that selling requires being a fast talker, or knowing how to use charisma to persuade. Those things do require an extroverted way of communicating. But in

sales there's a truism that 'we have two ears and one mouth and we should use them proportionately.' I believe that's what makes someone really good at selling or consulting—the number-one thing is they've got to really listen well. When I look at the top salespeople in my organization, none of those extroverted qualities are

the key to their success."

~

And now back to Greg and Emily's impasse. We've just acquired two crucial pieces of information: first, Emily's distaste for conversational multitasking is real and

explicable; and second,

experience conversations in their own way, they make deep and enjoyable connections with others. It was only once they accepted these two realities that Greg and Emily found a way to break their stalemate. Instead of focusing on the

number of dinner parties

they'd give, they started

when introverts are able to

talking about the format of the parties. Instead of seating everyone around a big table, which would require the kind of allconversational multitasking Emily dislikes so much, why not serve dinner buffet style, with people eating in small, casual conversational groupings on the sofas and floor pillows? This would

allow Greg to gravitate to his usual spot at the center of the room and Emily to hers on the outskirts, where she could have the kind of intimate, one-onone conversations she enjoys. This issue solved, the couple was now free to address the thornier question of how many parties to give. After some

back-and-forth, they agreed on two evenings a month—twenty-four dinners a year-instead of fifty-two. Emily still doesn't look forward to these events. But she sometimes enjoys them in spite of herself. And Greg gets to host the evenings he enjoys so much, to hold on to his identity, and to be with the person he most

adores—all at the same time.

11 ON COBBLERS AND GENERALS

How to Cultivate Quiet Kids in a World That Can't Hear Them

With anything young and tender the most important part of the task is the beginning of it; for that is the time at which the character

is being formed and the desired impression more readily taken.
—PLATO, THE REPUBLIC

story about a man who scoured the planet looking for the greatest general who ever lived. When the man was informed that the

person he sought had

Mark Twain once told a

already died and gone to heaven, he made a trip to the Pearly Gates to look for him. Saint Peter pointed at a regularlooking Joe. "That isn't the greatest of all generals," protested the man. "I knew that person when he lived on Earth, and he was only a cobbler." "I know that," said Saint Peter, "but if he had been a general, he would have been the greatest of them all." We should all look out for cobblers who might have been great generals. Which means focusing on introverted children, whose talents are too often stifled, whether at home, at school, or on the playground.

Consider this cautionary tale, told to me by Dr. Jerry Miller, a child psychologist and the director of the Center for the Child and the Family at the University of Michigan. Dr. Miller had a patient named Ethan, whose parents brought him for treatment on four separate occasions. Each time, the parents voiced

the same fears that something was wrong with their child. Each time, Dr. Miller assured them that Ethan was perfectly fine. The reason for their initial concern was simple enough. Ethan was seven, and his four-year-old brother had beaten him up several times. Ethan didn't fight back. His parents both of them outgoing,

take-charge types with high-powered corporate jobs and a passion for competitive golf and tennis -were OK with their younger son's aggression, but worried that Ethan's passivity was "going to be the story of his life." As Ethan grew older, his parents tried in vain to instill "fighting spirit" in him. They sent him onto

the baseball diamond and the soccer field, but Ethan just wanted to go home and read. He wasn't even competitive at school. Though very bright, he was a B student. He could have done better, but preferred to focus on his hobbies, especially building model cars. He had a few close friends, but was never in the thick

of classroom social life. Unable to account for his puzzling behavior, Ethan's parents thought he might be depressed. But Ethan's problem, says Dr. Miller, was not depression but a classic case of poor "parent-child fit." Ethan was tall, skinny, and unathletic; he looked like a stereotypical nerd.

His parents were sociable,

assertive people, who were "always smiling, always talking to people while dragging Ethan along behind them." Compare their worries about Ethan to Dr. Miller's assessment: "He was like the classic Harry Potter kid —he was always reading," Miller says enthusiastically. "He enjoyed any form of

imaginative play. He loved to build things. He had so many things he wanted to tell you about. He had more acceptance of his parents than they had of him. He didn't define them as pathological, just as different from himself. That same kid in different home would be a model child." But Ethan's own parents

never found a way to see him in that light. The last thing Dr. Miller heard was that his parents finally consulted with another psychologist who agreed to "treat" their son. And now Dr. Miller is the one who's worried about Ethan. "This is a clear case of an 'iatrogenic' problem,' " he says. "That's when the

treatment makes you sick. The classic example is when you use treatment to try to make a gay child into a straight one. I worry for that kid. These parents are very caring and wellmeaning people. They feel that without treatment, they're not preparing their son for society. That he needs more fire in him.

Maybe there's truth to that

last part; I don't know. But whether there is or not, I firmly believe that it's impossible to change that kid. I worry that they're taking a perfectly healthy boy and damaging his sense of self." Of course, it doesn't have to be a bad fit when extroverted parents have an introverted child. With a little mindfulness and

any kind of child, says Dr. Miller. But parents need to step back from their own preferences and see what the world looks like to their quiet children.

Take the case of Joyce and

understanding, any parent

can have a good fit with

her seven-year-old daughter, Isabel. Isabel is an elfin second grader who likes to wear glittery sandals and colorful rubber bracelets snaking up her skinny arms. She has several best friends with whom she exchanges confidences, and she gets along with most of the kids in her class. She's the type to throw her arms around a classmate who's had a bad day; she even gives her birthday presents away to charity. That's why her mother, Joyce, an attractive, good-natured with woman a wisecracking sense of humor and a bring-it-on demeanor, was confused by Isabel's problems at school. In first grade, Isabel

often came home consumed with worry over the class bully, who hurled mean comments at anyone sensitive enough to feel bruised by them. Even though the bully usually picked on other kids, Isabel spent hours dissecting the meaning of the bully's words, what her true intentions had been, even what the bully might be suffering at home that could possibly motivate her to behave SO dreadfully at school. By second grade, Isabel started asking her mother not to arrange play dates without checking with her first. Usually she preferred to stay home. When Joyce picked up Isabel from school, she often found the other girls gathered into

groups and Isabel off on the playground, shooting baskets by herself. "She just wasn't in the mix. I had to stop doing pickups for a while," recalls Joyce. "It was just too upsetting for me to watch." Joyce couldn't understand why her sweet, loving daughter wanted to spend so much time alone. She worried that something was wrong with Isabel. Despite what she'd always thought about her daughter's empathetic nature, might Isabel lack the ability to relate with others? It was only when I suggested that Joyce's daughter might be an introvert, and explained what that was, that Joyce started thinking differently about Isabel's experiences

at school. And from Isabel's perspective, things didn't sound alarming at all. "I need a break after school," she told me later. "School is hard because a lot of people are in the room, so you get tired. I freak out if my mom plans a play date without telling me, because I don't want to hurt my friends' feelings. But I'd rather stay

you have to do the things other people want to do. I like hanging out with my mom after school because I can learn from her. She's been alive longer than me. We have thoughtful conversations. I like thoughtful having conversations because they make people happy."* Isabel is telling us, in all

home. At a friend's house

her second-grade wisdom, that introverts relate to other people. Of course they do. They just do it in their own way. Now that Joyce understands Isabel's needs, mother and daughter brainstorm happily, figuring out strategies to help Isabel navigate her school day. "Before, I would have had Isabel

going out and seeing people all the time, packing her time after school full of activities," says Joyce. "Now I understand that it's very stressful for her to be in school, so we figure out together how much socializing makes sense and when it should happen." Joyce doesn't mind when Isabel wants to

hang out alone in her room after school or leave a birthday party a little earlier than the other kids. She also understands that since Isabel doesn't see any of this as a problem, there's no reason that she should. Joyce has also gained insight into how to help her daughter manage playground politics. Once,

Isabel was worried about how to divide her time among three friends who didn't get along with each other. "My initial instinct," says Joyce, "would be to say, Don't worry about it! Just play with them all! But now I understand that Isabel's a different kind of person. She has trouble strategizing about how to handle all these people

simultaneously on the playground. So we talk about who she's going to play with and when, and we rehearse things she can tell her friends to smooth the situation over." Another time, when Isabel was a little older, she felt upset because her friends sat at two different tables in the lunch room. One table was populated

with her quieter friends, the other with the class extroverts. Isabel described the second group as "loud, talking all the time, sitting on top of each other -ugh!" But she was sad because her best friend Amanda loved to sit at the "crazy table," even though she was also friends with the girls at the "more relaxed and chill table." Isabel felt torn. Where should she sit? Joyce's first thought was that the "crazy table" sounded like more fun. But she asked Isabel what she preferred. Isabel thought for a minute and said, "Maybe every now and then I'll sit with Amanda, but I do like being quieter and taking a break at lunch from everything."

Why would you want to do that? thought Joyce. But she caught herself before she said it out loud. "Sounds good to me," she told Isabel. "And Amanda still loves you. She just really likes that other table. But it doesn't mean she doesn't like you. And you should get yourself the peaceful time you need." Understanding

introversion, says Joyce, has changed the way she parents—and she can't believe it took her so long. "When I see Isabel being her wonderful self, I value it even if the world may tell her she should want to be at that other table. In fact, looking at that table through her eyes, it helps me reflect on how I might be perceived by others and

and manage my extroverted 'default' so as not to miss the company of others like my sweet daughter." Joyce has also come to appreciate Isabel's sensitive ways. "Isabel is an old soul," she says. "You forget that she's only a child. When I talk to her, I'm not tempted to use that

how I need to be aware

special tone of voice that reserve for people children, and I don't adapt my vocabulary. I talk to her the way I would to any adult. She's very sensitive, very caring. She worries about other people's wellbeing. She can be easily overwhelmed, but all these things go together and I love this about my daughter."

Joyce is as caring a mother as I've seen, but she had a steep learning curve as parent to her daughter

parent to her daughter because of their difference in temperaments. Would she have enjoyed a more natural parent-child fit if

she'd been an introvert herself? Not necessarily. Introverted parents can

face challenges of their own. Sometimes painful childhood memories can get in the way. Emily Miller, a clinical social worker in Ann Arbor, Michigan, told me about a little girl she treated, Ava, whose shyness was so extreme that it prevented her from making friends or from concentrating in class.

Recently she sobbed when asked to join a group singing in front of the classroom, and her mother, Sarah, decided to seek Miller's help. When Miller asked Sarah, a successful business journalist, to act as a partner in Ava's treatment, Sarah burst into tears. She'd been a shy child, too, and felt guilty that

she'd passed on to Ava her terrible burden. "I hide it better now, but I'm still just like my daughter," she explained. "I can approach anyone, but only as long as I'm behind a journalist's notebook." Sarah's reaction is not unusual for the pseudoextrovert parent of a shy

child, says Miller. Not only

is Sarah reliving her own childhood, but she's projecting onto Ava the worst of her own memories. But Sarah needs to understand that she and Ava are not the same person, even if they do seem to have inherited similar temperaments. For one thing, Ava is influenced by her father, too, and by any number of

environmental factors, so her temperament is bound to have a different expression. Sarah's own distress need not be her daughter's, and it does Ava a great disservice to assume that it will be. With the right guidance, Ava may get to the point where her shyness is nothing more than a small and infrequent annoyance.

But even parents who still have work to do on their own self-esteem can be enormously helpful to their kids, according to Miller. Advice from a parent who appreciates how a child feels is inherently validating. If your son is nervous on the first day of school, it helps to tell him that you felt the same way when you

started school and still do sometimes at work, but that it gets easier with time. Even if he doesn't believe you, you'll signal that you understand and accept him. You can also use your empathy to help you judge when to encourage him to face his fears, and when this would be too overwhelming. For

example, Sarah might know that singing in front of the classroom really is too big a step to ask Ava to take all at once. But she might also sense that singing in private with a small and simpatico group, or with one trusted friend, is a manageable first step, even if Ava protests at first. She can, in other words, sense when to push

Ava, and how much.

The psychologist Elaine Aron, whose work on sensitivity I described in chapter 6, offers insight

into these questions when

she writes about Jim, one

of the best fathers she

knows. Jim is a carefree

extrovert with two young daughters. The first daughter, Betsy, is just like him, but the second daughter, Lily, is more sensitive—a keen but anxious observer of her world. Jim is a friend of Aron's, so he knew all about sensitivity and introversion. He embraced Lily's way of being, but at the same time he didn't

want her to grow up shy. So, writes Aron, he "became determined to introduce her to every potentially pleasurable opportunity in life, from ocean waves, tree climbing, and new foods to family reunions, soccer, and varying her clothes rather than wearing one comfortable uniform. In almost every instance, Lily

initially thought these novel experiences were not such good ideas, and Jim always respected her opinion. He never forced her, although he could be very persuasive. He simply shared his view of a situation with her—the safety and pleasures involved, the similarities to things she already liked. He would wait for that

little gleam in her eye that said she wanted to join in with the others, even if she couldn't yet. "Jim always assessed these situations carefully to ensure that she would not ultimately be frightened, but rather be able to experience pleasure and success. Sometimes he held her back until she

was overly ready. Above

all, he kept it an internal conflict, not a conflict between him and her.... And if she or anyone else comments on her quietness or hesitancy, Jim's prompt reply is, 'That's just your style. Other people have different styles. But this is yours. You like to take your time and be sure.' Jim also knows that part of her style is befriending

doing careful work, noticing everything going on in the family, and being the best soccer strategist in her league." One of the best things you can do for an introverted child is to work with him on his reaction to novelty. Remember that introverts

react not only to new

anyone whom others tease,

people, but also to new places and events. So don't mistake your child's caution in new situations for an inability to relate to others. He's recoiling from novelty or overstimulation, not from human contact. As we saw in the last chapter, introversion-extroversion levels are not correlated with either agreeableness or the enjoyment of just as likely as the next kid to seek others' company, though often in smaller doses. The key is to expose your child gradually to new situations and people —taking care to respect his limits, even when they seem extreme. This produces more-confident

than

either

kids

intimacy. Introverts are

overprotection or pushing too hard. Let him know that his feelings are normal and natural, but also that there's nothing to be afraid of: "I know it can feel funny to play with someone you've never met, but I bet that boy would love to play trucks with you if you asked him." Go at your child's pace; don't rush him. If he's young,

make the initial introductions with the other little boy if you have to. And stick around in the background—or, when he's really little, with a gentle, supportive hand on his back—for as long as he seems to benefit from your presence. When he takes social risks, let him know you admire his efforts: "I saw you go up to those

that can be difficult, and I'm proud of you." The same goes for new situations. Imagine a child who's more afraid of the ocean than are other kids the same age. Thoughtful

new kids yesterday. I know

parents recognize that this fear is natural and even wise; the ocean is indeed dangerous. But they don't allow her to spend the

summer on the safety of the dunes, and neither do they drop her in the water and expect her to swim. Instead they signal that they understand her unease, while urging her to take small steps. Maybe they play in the sand for a few days with the ocean waves crashing at a safe distance. Then one day they approach the water's

edge, perhaps with the child riding on a parent's shoulders. They wait for calm weather, or low tide, to immerse a toe, then a foot, then a knee. They don't rush; every small step is a giant stride in a child's world. When ultimately she learns to swim like a fish, she has reached a crucial turning point in her relationship not only with water but also with fear. Slowly your child will see that it's worth punching through her wall of discomfort to get to the fun on the other side. She'll learn how to do the punching by herself. As Dr. Kenneth Rubin, the director of the Center for Children, Relationships and Culture at the

University of Maryland, writes, "If you're consistent in helping your young child learn to regulate his or her emotions and behaviors in soothing and supportive ways, something rather magical will begin to happen: in time, you might watch your daughter seem to be silently reassuring herself: 'Those kids are

having fun, I can go over there.' He or she is learning to self-regulate fearfulness and wariness." If you want your child to learn these skills, don't let her hear you call her "shy": she'll believe the label and experience her nervousness as a fixed trait rather than an emotion she can control. She also knows full well that "shy"

is a negative word in our society. Above all, do not shame her for her shyness. If you can, it's best to teach your child selfcoaxing skills while he's still very young, when there's less stigma associated with social hesitancy. Be a role model by greeting strangers in a calm and friendly way, and by getting together

with your own friends. Similarly, invite some of his classmates to your house. Let him know gently that when you're together with others, it's not OK to whisper or tug at your pants leg to communicate his needs; he needs to speak up. Make sure that his social encounters are pleasant by selecting kids who aren't

overly aggressive and playgroups that have a friendly feel to them. Have your child play with younger kids if this gives him confidence, older kids if they inspire him. If he's not clicking with a particular child, don't force it; you want most of his early social experiences to be positive. Arrange for him to enter new social

situations as gradually as possible. When you're going to a birthday party, for example, talk in advance about what the party will be like and how the child might greet her peers ("First I'll say 'Happy birthday, Joey,' and then I'll say 'Hi, Sabrina.'). And make sure to get there early. It's much easier to be one of the earlier

guests, so your child feels as if other people are joining him in a space that he "owns," rather than having to break into a preexisting group. Similarly, if your child is nervous before school starts for the year, bring him to see his classroom and, ideally, to meet the teacher one-on-one, as well as other friendly-

looking adults, such as principals and guidance counselors, janitors and cafeteria workers. You can be subtle about this: "I've never seen your new classroom, why don't we drive by and take a look?" Figure out together where the bathroom is, what the policy is for going there, the route from the classroom to the cafeteria,

will pick him up at day's end. Arrange playdates during the summer with compatible kids from his class. You can also teach your child simple social strategies to get him through uncomfortable moments. Encourage him to look confident even if he's not feeling it. Three

and where the school bus

simple reminders go a long way: smile, stand up straight, and make eye contact. Teach him to look for friendly faces in a crowd. Bobby, a threeyear-old, didn't like going to his city preschool because at recess the class left the safe confines of the classroom and played on the roof with the bigger kids in the older classes.

only on rainy days when there was no roof time. His parents helped him figure out which kids he felt comfortable playing with, and to understand that a noisy group of older boys didn't have to spoil his fun. If you think that you're not up to all this, or that

He felt so intimidated that

he wanted to go to school

your child could use extra practice, ask a pediatrician for help locating a social skills workshop in your area. These workshops teach kids how to enter introduce groups, themselves to new peers, and read body language and facial expressions. And they can help your child navigate what for many introverted kids is the

trickiest part of their social lives: the school day.

It's a Tuesday morning in October, and the fifthgrade class at a public school in New York City is settling down for a lesson

on the three branches of

American government. The

kids sit cross-legged on a rug in a brightly lit corner of the room while their teacher, perched on a chair with a textbook in her lap, takes a few minutes to explain the basic concepts. Then it's time for a group activity applying the lesson. "This classroom gets so messy after lunch," says the teacher. "There's

bubble gum under the tables, food wrappers everywhere, and Cheese Nips all over the floor. We don't like our room to be so messy, do we?" The students shake their heads no. "Today we're going to do something about this problem—together," says the teacher. She divides the class

into three groups of seven kids each: a legislative group, tasked with enacting a law to regulate lunchtime behavior; an executive group, which must decide how to enforce the law; and a judicial branch, which has to come up with a system for adjudicating messy eaters. The kids break excitedly

into their groups, seating themselves in three large clusters. There's no need to move any furniture. Since so much of the curriculum is designed for group work, the classroom desks are already arranged in pods of seven desks each. The room erupts in a merry din. Some of the kids who'd looked deathly bored during the tenchattering with their peers. But not all of them. When you see the kids as one big mass, they look like a room full of joyfully squirming puppies. But when you focus on individual children—like Maya, a redhead with a ponytail, wire-rimmed

glasses, and a dreamy

expression on her face—

minute lecture are now

you get a strikingly different picture. In Maya's group, the branch," "executive everyone is talking at once. Maya hangs back. Samantha, tall and plump in a purple T-shirt, takes charge. She pulls a sandwich bag from her knapsack and announces, "Whoever's holding the plastic bag gets to talk!"

The students pass around the bag, each contributing a thought in turn. They remind me of the kids in The Lord of the Flies civicmindedly passing around their conch shell, at least until all hell breaks loose. looks Maya overwhelmed when the bag makes its way to her. "I agree," she says, handing it like a hot

potato to the next person. The bag circles the table several times. Each time Maya passes it to her neighbor, saying nothing. Finally the discussion is done. Maya looks troubled. She's embarrassed, I'm guessing, that she hasn't participated. Samantha reads from her notebook a of enforcement mechanisms that the group has brainstormed. "Rule Number 1," she says. "If you break the laws, you miss recess...." "Wait!" interrupts Maya. "I have an idea!" "Go ahead," says Samantha, a little impatiently. But Maya, who like many sensitive introverts seems attuned to the subtlest cues for disapproval, notices the sharpness in Samantha's voice. She opens her mouth to speak, but lowers her eyes, only managing something rambling and unintelligible. No one can hear her. No one tries. The cool girl in the group light-years ahead of the rest in her slinkiness and fashion-forward clothessighs dramatically. Maya peters off in confusion,

and the cool girl says, "OK, Samantha, you can keep reading the rules now." The teacher asks the executive branch for a recap of its work. Everyone vies for airtime. Everyone except Maya. Samantha takes charge as usual, her voice carrying over everyone else's, until the rest of the group falls silent. Her report doesn't

make a lot of sense, but she's so confident and good-natured that doesn't seem to matter. Maya, for her part, sits curled up at the periphery of the group, writing her name over and over again in her notebook, in big block letters, as if to reassert her identity. At least to herself.

Earlier, Maya's teacher

intellectually alive student who shines in her essaywriting. She's a gifted softball player. And she's kind to others, offering to tutor other children who lag behind academically. But none of Maya's positive attributes were evident that morning.

had told me that she's an

Any parent would be dismayed to think that this was their child's experience of learning, of socializing, and of herself. Maya is an introvert; she is out of her element in a noisy and overstimulating classroom where lessons are taught in large groups. Her teacher told me that she'd do much better in a school with a calm

atmosphere where she could work with other kids who are "equally hardworking and attentive to detail," and where a larger portion of the day would involve independent work. Maya needs to learn to assert herself in groups, of course, but will experiences like the one I witnessed teach her this skill?

The truth is that many schools are designed for extroverts. Introverts need different kinds of instruction from extroverts, write College of William and Mary education scholars Jill Burruss and Lisa Kaenzig. And too often, "very little is made available to that learner except constant advice on becoming more

social and gregarious." We tend to forget that there's nothing sacrosanct about learning in large group classrooms, and that we organize students this way not because it's the best way to learn but because it's cost-efficient, and what else would we do with our children while the grown-ups are at work? If your child prefers

to work autonomously and one-on-one, socialize there's nothing wrong with her; she just happens not to fit the prevailing model. The purpose of school should be to prepare kids for the rest of their lives, but too often what kids need to be prepared for is surviving the school day itself. The school environment

can be highly unnatural, especially from the perspective of an introverted child who loves to work intensely on projects he cares about, and hang out with one or two friends at a time. In the morning, the door to the bus opens and discharges its occupants in a noisy, jostling mass. Academic classes are

dominated by group discussions in which a teacher prods him to speak up. He eats lunch in the cacophonous din of the cafeteria, where he has to jockey for a place at a crowded table. Worst of all, there's little time to think or create. The structure of the day is almost guaranteed to sap his energy rather than

Why do we accept this one-size-fits-all situation as a given when we know perfectly well that adults don't organize themselves this way? We often marvel at how introverted, geeky

stimulate it.

kids "blossom" into secure and happy adults. We liken it to a metamorphosis. However, maybe it's not the children

who change but their environments. As adults, they get to select the careers, spouses, and social circles that suit them. They don't have to live in whatever culture they're plunked into. Research from a field known as "person-environment fit" shows that people flourish when, in the words of psychologist Brian Little,

"engaged they're in occupations, roles or that settings are concordant with their personalities." The inverse is also true: kids stop learning when they feel emotionally threatened. No one knows this better than LouAnne Johnson, a tough-talking former marine and schoolteacher widely recognized for

educating some of the most troubled teens in the California public school system (Michelle Pfeiffer played her in the movie Dangerous Minds). I visited Johnson at her home in Truth or Consequences, New Mexico, to find out more about her experience teaching children of all stripes. Johnson happens to be

skilled at working with very shy children—which is no accident. One of her techniques is to share with her students how timid she herself used to be. Her earliest school memory is of being made to stand on stool in kindergarten because she preferred to sit in the corner and read books, and the teacher wanted her to "interact."

"Many shy children are thrilled to discover that their teacher had been as shy as they were," she told me. "I remember one very shy girl in my high school English class whose mother thanked me for telling her daughter that I believed she would peak much later in life, so not to worry that she didn't shine in high school. She said

that one comment had changed her daughter's entire outlook on life. Imagine—one offhand comment made such an impact on a tender child." When encouraging shy children to speak, says Johnson, it helps to make the topic so compelling that they forget their inhibitions. She advises asking students to discuss "Boys have life a lot easier than girls do." Johnson, who is a frequent public speaker on education despite a lifelong public speaking phobia, knows firsthand how well this "I haven't works. overcome my shyness," she says. "It is sitting in the corner, calling to me. But I am passionate about

hot-button subjects like

changing our schools, so my passion overcomes my shyness once I get started on a speech. If you find something that arouses your passion or provides a welcome challenge, you forget yourself for a while. It's like an emotional vacation." But don't risk having children make a speech to the class unless you've

provided them with the tools to know with reasonable confidence that it will go well. Have kids practice with a partner and in small groups, and if they're still too terrified, don't force it. Experts believe that negative speaking public experiences in childhood can leave children with a lifelong terror of the

podium.
So, what kind of school

environment would work best for the Mayas of the world? First, some thoughts for teachers:

 Don't think of introversion as something that needs to be cured. If an introverted child needs help with social

skills, teach her or recommend training outside class, just as you'd do for a student who needs extra attention in math or reading. But celebrate these kids for who they are. "The typical comment on many children's report cards is, 'I wish Molly would talk more in class,"

Pat Adams, the former head of the Emerson School for gifted students in Ann Arbor, Michigan, told me. "But here we have an understanding that many kids are introspective. We try to bring them out, but we don't make it a big deal. We think about introverted kids as

having a different learning style."

Studies show that one

third to one half of us are introverts. This means that you have more introverted kids in your class than you think. Even at a young age, some introverts become adept at acting like extroverts,

making it tough to spot them. Balance teaching methods to serve all the kids in your class. Extroverts tend to like movement, stimulation, collaborative work. Introverts prefer lectures, downtime, and independent projects. Mix it up

- fairly.
- Introverts often have one or two deep interests that are not necessarily shared by their peers. Sometimes they're made to feel freaky for the force of these passions, when in fact studies show that this sort of intensity is a

prerequisite to talent development. Praise these kids for their interests, encourage them, and help them find like-minded friends, if not in the classroom, then outside it.

 Some collaborative work is fine for introverts, even

beneficial. But it should take place in small groups—pairs or threesomes—and be carefully structured so that each child knows her role. Roger Johnson, co-director of the Cooperative Learning Center at the University of Minnesota, says that shy or introverted kids

benefit especially from well-managed small-group work because "they are usually very comfortable talking with one or two of their classmates to answer a question or complete a task, but would never think of raising their hand and addressing the whole

class. It is very important that these students get a chance to translate their thoughts into language." Imagine how different Maya's experience would have been if her group had been smaller and someone had taken the time to say, "Samantha, you're in

charge of keeping the discussion on track. Maya, your job is to take notes and read them back to the group."

 On the other hand, remember Anders Ericsson's research on Deliberate Practice from chapter 3. In many fields, it's mastery without knowing how to work on one's own. Have your extroverted students take a page from their introverted peers' playbooks. Teach all kids to work independently.

impossible to gain

 Don't seat quiet kids in "high-interaction"

areas of the classroom, says communications professor James McCroskey. They won't talk more in those areas; they'll feel more threatened and will have trouble concentrating. Make it easy for introverted kids to participate in class, but don't insist.

"Forcing highly apprehensive young people to perform orally is harmful," writes McCroskey. "It will increase apprehension and reduce self-esteem."

 If your school has a selective admissions policy, think twice before basing your

admissions decisions on children's performance in a playgroup setting. Many introverted kids clam up in groups of strangers, and you will not get even a glimpse of what these kids are like once they're relaxed and comfortable.

And here are some thoughts for parents. If you're lucky enough to have control over where your child goes to school, whether by scouting out a magnet school, moving to a neighborhood whose public schools you like, or sending your kids to private or parochial school, you can look for a school that

interests andemphasizes autonomyconducts group

prizes independent

- activities in moderation and in small, carefully managed groups
- managed groups
 values kindness, caring, empathy, good citizenship
 insists on orderly

classrooms and

is organized into small, quiet classeschooses teachers who

hallways

- seem to understand the shy/serious/introverted temperament
- temperament
 focuses its
 academic/athletic/extr
 activities on subjects
 that are particularly
 interesting to your

strongly enforces an anti-bullying program

child

- emphasizes a tolerant,
 down-to-earth culture
- attracts like-minded peers, for example intellectual kids, or artistic or athletic ones, depending on your child's preference

Handpicking a school may be unrealistic for many families. But whatever the school, there's much you can do to help your introverted child thrive. Figure out which subjects energize him most, and let him run with them, either with outside tutors, or extra programming like science fairs or creative writing

classes. As for group activities, coach him to look for comfortable roles within larger groups. One of the advantages of group work, even for introverts, is that it often offers many different niches. Urge your child to take the initiative, and claim for himself the responsibility of notetaker, picture-drawer, or whatever role interests

will feel more comfortable when he knows what his contribution is supposed to be. You can also help him practice speaking up. Let him know that it's OK to take his time to gather his

thoughts before he speaks,

even if it seems as if

everyone else is jumping

into the fray. At the same

him most. Participation

time, advise him that contributing earlier in a discussion is a lot easier than waiting until everyone else has talked and letting the tension build as he waits to take his turn. If he's not sure what to say, or is uncomfortable making assertions, help him play to his strengths. Does he tend to ask thoughtful

questions? Praise this quality, and teach him that good questions are often more useful than proposing answers. Does he tend to look at things from his own unique point of view? Teach him how valuable this is, and discuss how he might share his outlook with others. **Explore** real-life

scenarios: for example, Maya's parents could sit down with her and figure out how she might have handled the executivegroup exercise differently. Try role-playing, in situations that are as specific as possible. Maya could rehearse in her own words what it's like to say "I'll be the note-taker!" or "What if we make a rule

that anyone who throws wrappers on the floor has to spend the last ten minutes of lunch picking up litter?" The catch is that this depends on getting Maya to open up and tell you what happened during her school day. Even if they're forthcoming, generally many kids won't share experiences that made

them feel ashamed. The younger your child is, the more likely she is to open up, so you should start this process as early in her school career as possible. Ask your child for information in a gentle, nonjudgmental way, with specific, clear questions. Instead of "How was your day?" try "What did you do in math class today?"

Instead of "Do you like your teacher?" ask "What do you like about your teacher?" Or "What do you not like so much?" Let her take her time to answer. Try to avoid asking, in the overly bright voice of parents everywhere, "Did you have fun in school today?!" She'll sense how important it is that the answer be yes.

If she still doesn't want to talk, wait for her. Sometimes she'll need to decompress for hours before she's ready. You may find that she'll open up only during cozy, relaxed moments, like bathtime or bedtime. If that's the case, make sure to build these situations into the day. And if she'll talk to others, like a

older sibling, but not to you, swallow your pride and enlist help. Finally, try not to worry if all signs suggest that your introverted child is not the most popular kid at school. It's critically for his important emotional and social development that he have

two solid

trusted babysitter, aunt, or

friendships, child development experts tell us, but being popular isn't necessary. Many introverted kids grow up to have excellent social skills, although they tend to join groups in their own way—waiting a while before they plunge in, or participating only for short periods. That's OK. Your child needs to acquire

social skills and make friends, not turn into the most gregarious student in school. This doesn't mean that popularity isn't a lot of fun. You'll probably wish it for him, just as you might wish that he have good looks, a quick wit, or athletic talent. But make sure you're not imposing your own longings, and remember that there are

many paths to a satisfying life.

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Many of those paths will be found in passions outside the classroom. While extroverts are more

likely to skate from one hobby or activity to another, introverts often

stick their enthusiasms. This gives them a major advantage as they grow, because true self-esteem comes from competence, not the other way around. Researchers have found that intense engagement in and commitment to an activity is a proven route to happiness and well-being. Well-developed talents and

source of confidence for your child, no matter how different he might feel from his peers. For example, Maya, the girl who was such a quiet member of the "executive branch," loves to go home every day after school and read. But she also loves softball, with all of its

social and performance

interests can be a great

pressures. She still recalls the day she made the team after participating in tryouts. Maya was scared stiff, but she also felt strong—capable of hitting the ball with a good, powerful whack. "I guess all those drills finally paid off," she reflected later. "I just kept smiling. I was so excited and proud—and that feeling never went away." For parents, however, it's not always easy to orchestrate situations where these deep feelings of satisfaction arise. You might feel, for example, that you should encourage your introverted child to play whichever sport is the ticket to friendship and esteem in your town. And that's fine, if he enjoys as Maya is with softball.

Team sports can be a great boon for anyone, especially for kids who otherwise feel uncomfortable joining

that sport and is good at it,

groups. But let your child take the lead in picking the activities he likes best. He may not like any team sports, and that's OK. Help him look for activities where he'll meet other kids, but also have plenty of his own space. Cultivate the strengths of his disposition. If his passions seem too solitary for your taste, remember that even solo activities like painting, engineering, or creative writing can lead to communities of fellow enthusiasts. "I have known children

who found others," says Dr. Miller, "by sharing important interests: chess, elaborate role-playing games, even discussing deep interests like math or history." Rebecca Wallace-Segall, who teaches creative-writing workshops for kids and teens as director of Writopia Lab in New York City, says that the students who sign up

for her classes "are often not the kids who are willing to talk for hours about fashion and celebrity. Those kids are less likely to come, perhaps because they're less inclined to analyze and dig deep—that's not their comfort zone. The socalled shy kids are often hungry to brainstorm ideas, deconstruct them,

and act on them, and, paradoxically, when they're allowed to interact this way, they're not shy at all. They're connecting with each other, but in a deeper zone, in a place that's considered boring or tiresome by some of their peers." And these kids do "come out" when they're ready; most of the Writopia kids read their

works at local bookstores, and a staggering number win prestigious national writing competitions. If your child is prone to overstimulation, then it's also a good idea for her to pick activities like art or long-distance running, that depend less on performing under pressure. If she's drawn to activities that performance, require

though, you can help her thrive. When I was a kid, I loved figure skating. I could spend hours on the rink, tracing figure eights, spinning happily, or flying through the air. But on the day of my competitions, I was a wreck. I hadn't slept the night before and would

often fall during moves

that I had sailed through

in practice. At first I believed what people told me—that I had the jitters, just like everybody else. But then I saw a TV interview with the Olympic gold medalist Katarina Witt. She said pre-competition that nerves gave her the adrenaline she needed to win the gold. I knew then that Katarina and I were utterly different creatures, but it took me decades to figure out why. Her nerves were so mild that they simply energized her, while mine were constricting enough to make me choke. At the time, my very supportive mother quizzed the other skating moms about how their own daughters handled pre-competition

anxiety, and came back with insights that she hoped would make me feel better. Kristen's nervous too, she reported. Renée's mom says she's scared the night before a competition. But I knew Kristen and Renée well, and I was certain that they weren't as frightened as I was. I think it might have helped if I'd understood

myself better back then. If you're the parent of a would-be figure skater, help her to accept that she has heavy-duty jitters without giving her the idea that they're fatal to success. What she's most afraid of is failing publicly. She needs to desensitize herself to this fear by getting used to competing, and even to failing.

Encourage her to enter competitions low-stakes far away from home, she feels where anonymous and no one will know if she falls. Make sure she has rehearsed thoroughly. If she's planning to compete on an unfamiliar rink, try to have her practice there a few times first. Talk about what might go

her visualize what it will feel like to perform her moves smoothly. Unleashing a passion can transform a life, not just

wrong and how to handle

it: OK, so what if you do fall

and come in last place, will

life still go on? And help

for the space of time that your child's in elementary or middle or high school, but way beyond. Consider the story of David Weiss, a drummer and music journalist. David is a good example of someone who grew up feeling like Charlie Brown and went on to build a life of creativity, productivity, and meaning. He loves his

wife and baby son. He relishes his work. He has a wide and interesting circle of friends, and lives in New York City, which he considers the most vibrant place in the world for a music enthusiast. If you measure a life by the classic barometers of love and work, then David is a blazing success. But it wasn't always

clear, at least not to David, that his life would unfold as well as it did. As a kid, he was shy and awkward. The things that interested him, music and writing, held no value for the people who mattered most back then: his peers. "People would always tell me, 'These are the best years of your life,' " he recalls. "And I would think

to myself, I hope not! I hated school. I remember thinking, I've gotta get out of here. I was in sixth grade when Revenge of the Nerds came out, and I looked like I stepped out of the cast. I knew I was intelligent, but I grew up in suburban Detroit, which is like ninety-nine percent of the rest of the country: if you're a good-looking

person and an athlete, you're not gonna get hassled. But if you seem too smart, that's not something that kids respect you for. They're more likely to try and beat you down for it. It was my best attribute, and I definitely enjoyed using it, but it was something you also had to try and keep in check."

So how did he get from there to here? The key for David was playing the drums. "At one point," David says, "I totally overcame all my childhood stuff. And I know exactly how: I started playing the drums. Drums are my muse. They're my Yoda. When I was in middle school, the high school jazz band came and

performed for us, and I thought that the coolest one by a long shot was the kid playing the drum set. To me, drummers were kind of like athletes, but musical athletes, and I loved music." At first, for David, drumming was mostly about social validation; he stopped getting kicked out of parties by jocks twice

his size. But soon it became something much deeper: "I suddenly realized this was a form of creative expression, and it totally blew my mind. I was fifteen. That's when I became committed to sticking with it. My entire life changed because of my drums, and it hasn't stopped, to this day." David still remembers

acutely what it was like to be his nine-year-old self. "I feel like I'm in touch with that person today," he says. "Whenever I'm doing something that I think is cool, like if I'm in New York City in a room full of people, interviewing Alicia Keys or something, I send a message back to that person and let him know that everything turned out

OK. I feel like when I was nine, I was receiving that signal from the future, which is one of the things that gave me the strength to hang in there. I was able to create this loop between who I am now and who I was then." The other thing that gave David strength was his parents. They focused less on developing his

confidence than on making sure that he found ways to be productive. It didn't matter what he was interested in, so long as he pursued it and enjoyed himself. His father was an avid football fan, David recalls, but "the last person to say, 'How come you're not out on the football field?' " For a while David took up piano,

embraced his new passion. It was their way of embracing their son. If David Weiss's tale of

then cello. When he

announced that he wanted

to switch to drumming, his

parents were surprised, but

never wavered. They

transformation resonates for you, there's a good a perfect reason. It's example of what the psychologist Dan McAdams calls а redemptive life story—and a sign of mental health and well-being. At the Foley Center for the Study of Lives at Northwestern University, McAdams studies the

stories that people tell about themselves. We all write our life stories as if we were novelists, McAdams believes, with beginnings, conflicts, turning points, and endings. And the way we characterize our past setbacks profoundly influences how satisfied we are with our current lives. Unhappy people tend

to see setbacks as contaminants that ruined an otherwise good thing ("I was never the same again after my wife left me"), while generative adults see them as blessings in disguise ("The divorce was the most painful thing that ever happened to me, but I'm so much happier with my new wife"). Those who

live the most fully realized lives—giving back to their families, societies, and ultimately themselves tend to find meaning in their obstacles. In a sense, McAdams has breathed new life into one of the great insights of Western mythology: that where we stumble is where our treasure lies. For many introverts like

David, adolescence is the great stumbling place, the dark and tangled thicket of low self-esteem and social unease. In middle and high school, the main currency is vivacity and gregariousness; attributes like depth and sensitivity don't count for much. But many introverts succeed in composing life stories much like David's: our

Charlie Brown moments are the price we have to pay to bang our drums happily through the decades.

* Some who read this book before

* Some who read this book before publication commented that the quote from Isabel couldn't possibly be accurate—"no second grader talks that way!" But this is what she

said.

CONCLUSION

Wonderland

Our culture made a virtue of living only as extroverts. We discouraged the inner journey, the quest for a center. So we lost our center and have to find it again.

—ANAÏS NIN

Whether you're an introvert yourself or an extrovert who loves or works with one, I hope you'll benefit personally from the insights in this book. Here is a blueprint to take with you: Love is essential; gregariousness is optional. Cherish your nearest and dearest. Work with colleagues you like and

Scan respect. new acquaintances for those who might fall into the former categories or whose company you enjoy for its own sake. And don't worry about socializing with everyone else. Relationships make happier, everyone introverts included, but quality think over quantity.

The secret to life is to put yourself in the right lighting. For some it's a Broadway spotlight; for others, a lamplit desk. Use your natural powers—of persistence, concentration, insight, and sensitivity—to do work you love and work that matters. Solve problems, make art, think deeply. Figure out what you are

meant to contribute to the world and make sure you contribute it. If this requires public speaking or networking or other activities that make you uncomfortable, do them anyway. But accept that they're difficult, get the training you need to make them easier, and reward yourself when you're done. Quit your job as a TV

anchor and get a degree in library science. But if TV anchoring is what you love, then create an extroverted persona to get yourself through the day. Here's a rule of thumb for networking events: one new honest-to-goodness relationship is worth ten fistfuls of business cards. Rush home afterward and kick back on your sofa.

niches.

Respect your loved ones' need for socializing and your own for solitude (and vice versa if you're an extrovert).

Carve out

restorative

Spend your free time the way you like, not the way you think you're supposed to. Stay home on New Year's Eve if that's what makes you happy. Skip the

committee meeting. Cross the street to avoid making aimless chitchat with random acquaintances. Read. Cook. Run. Write a story. Make a deal with yourself that you'll attend a set number of social events in exchange for not feeling guilty when you beg off. If your children are quiet, help them make

peace with new situations and new people, but otherwise let them be themselves. Delight in the originality of their minds. Take pride in the strength of their consciences and the loyalty of their friendships. Don't expect them to follow the gang. Encourage them to follow their passions instead. Throw confetti when they the drummer's throne, on the softball field, or on the page. If you're a teacher, enjoy your gregarious and participatory students. But don't forget to cultivate the shy, the gentle, the

autonomous, the ones with

single-minded enthusiasms

for chemistry sets or parrot

claim the fruits of those

passions, whether it's on

taxonomy or nineteenthcentury art. They are the artists, engineers, and thinkers of tomorrow. If you're a manager, remember that one third to one half of your workforce is probably introverted, whether they appear that way or not. Think twice about how you design your organization's office space. Don't expect

introverts to get jazzed up about open office plans or, for that matter, lunchtime birthday parties or teambuilding retreats. Make the most of introverts' strengths—these are the people who can help you think deeply, strategize, solve complex problems, and spot canaries in your coal mine. Also, remember the

dangers of the New Groupthink. If it's creativity you're after, ask your employees to solve problems alone before sharing their ideas. If you want the wisdom of the crowd, gather electronically, or in writing, and make sure people can't see each other's ideas until everyone's had a chance to

contribute. Face-to-face contact is important because it builds trust, but group dynamics contain unavoidable impediments to creative thinking. Arrange for people to interact one-on-one and in small, casual groups. Don't mistake assertiveness or eloquence for good ideas. If you have a proactive work force (and I hope you do), remember that they may perform better under an introverted leader than under an extroverted or charismatic one. Whoever you are, bear in mind that appearance is not reality. Some people act like extroverts, but the effort costs them in energy, authenticity, and even physical health.

Others seem aloof or self-

contained, but their inner landscapes are rich and full of drama. So the next time you see a person with a composed face and a soft voice, remember that inside her mind she might be solving an equation, composing a sonnet, designing a hat. She might, that is, be deploying the powers of quiet. We know from myths

and fairy tales that there are many different kinds of powers in this world. One child is given a light saber, another a wizard's education. The trick is not to amass all the different kinds of available power, but to use well the kind you've been granted. Introverts are offered keys to private gardens full of riches. To possess such a

key is to tumble like Alice down her rabbit hole. She didn't choose to go to Wonderland—but she made of it an adventure that was fresh and fantastic and very much her own. Lewis Carroll was an introvert, too, by the way. Without him, there would be no Alice in Wonderland. And by now, this shouldn't



surprise us.

A Note on the Dedication

My grandfather was a softspoken man with sympathetic blue eyes, and a passion for books and ideas. He always dressed in a suit, and had a courtly way of exclaiming over

whatever was exclaimable

in people, especially in

children. In the Brooklyn neighborhood where he served as a rabbi, the sidewalks were filled with men in black hats, women in skirts that hid their knees, and improbably well-behaved kids. On his way to synagogue, my grandfather would greet the passersby, gently praising this child's brains, that one's height, the

other's command of current events. Kids adored him, businessmen respected him, lost souls clung to him. But what he loved to do best was read. In his small apartment, where as a widower he'd lived alone for decades, all the furniture had yielded its original function to serve as a surface for piles of

books: gold-leafed Hebrew texts jumbled together with Margaret Atwood and Milan Kundera. My grandfather would sit beneath a halo-shaped fluorescent light at his tiny kitchen table, sipping Lipton tea and snacking on marble cake, a book propped open on the white cotton tablecloth. In his sermons, each a tapestry of ancient and humanist thought, he'd share with his congregation the fruits of that week's study. He was a shy person who had trouble making eye contact with the audience, but he was so bold in his spiritual intellectual and explorations that when he spoke the congregation swelled to standing-roomonly.

The rest of my family took its cue from him. In our house, reading was the primary group activity. On Saturday afternoons we curled up with our books in the den. It was the best of both worlds: you had the animal warmth of your family right next to you, but you also got to roam around the adventure-land inside your own head.

Yet as a preteen I began to wonder whether all this reading had marked me as "out of it," a suspicion that seemed confirmed when I went away to summer camp at the age of ten and watched as a girl with thick glasses and a high forehead refused to put down her book on the allimportant first day of camp and instantly

became a pariah, her days and nights a hell of social exclusion. I longed to read, too, but left my own paperbacks untouched in my suitcase (though I felt guilty about this, as if the books needed me and I was forsaking them). I saw that the girl who kept reading was considered bookish and shy, the very things that I was, too, and

knew that I must hide. After that summer, I felt less comfortable about my desire to be alone with a book. In high school, in college, and as a young lawyer, I tried to make myself appear more extroverted and less eggheady than I truly was. But as I grew older, I drew inspiration from my grandfather's example. He

was a quiet man, and a great one. When he died at the age of ninety-four, after sixty-two years at the pulpit, the NYPD had to close the streets of his neighborhood accommodate the throngs of mourners. He would have been surprised to know this. Today, I think that one of the best things about him was

humility. This book is dedicated, with love, to my childhood family. To my mother, with her endless enthusiasm for quiet kitchen-table chats; she gave us children the gift of intimacy. I was so lucky to have such a devoted mother. To my father, a dedicated physician who taught by example the joys

of sitting for hours at a desk, hunting for knowledge, but who also came up for air to introduce me to his favorite poems and science experiments. To my brother and sister, who share to this day the warmth and affection of having grown up in our small family and household full

literature. To my grandmother, for her pluck, grit, and caring. And in memory of my grandfather, who spoke so eloquently the language of quiet.

A Note on the Words Introvert and Extrovert

introversion as seen from a *cultural* point of view. Its primary concern is the age-old dichotomy

between the "man of

action" and the "man of

contemplation," and how

This book is about

we could improve the world if only there were a greater balance of power between the two types. It focuses on the person who recognizes him- or herself somewhere in the following constellation of attributes: reflective, cerebral, bookish, unassuming, sensitive, thoughtful, serious, contemplative, subtle,

introspective, innerdirected, gentle, calm, modest, solitude-seeking, shy, risk-averse, thinskinned. Quiet is also about this person's opposite number: the "man of action" who is ebullient. expansive, sociable, gregarious, excitable, dominant, assertive, active, risk-taking, thickskinned, outer-directed,

lighthearted, bold, and comfortable in the spotlight. These are broad categories, of course. Few individuals identify fully with only one or the other. But most of us recognize these types immediately, because they play meaningful roles in our culture. Contemporary

personality psychologists may have a conception of introversion and extroversion that differs from the one I use in this book. Adherents of the Big Five taxonomy often view such characteristics as the tendency to have cerebral nature, a rich inner life, a strong conscience, some degree of (especially anxiety

shyness), and a risk-averse nature as belonging to categories quite separate from introversion. To them, these traits may fall under "openness to experience," "conscientiousness," and "neuroticism." My use of the word introvert is deliberately broader, drawing on the insights of Big Five psychology, but also encompassing Jungian thinking on the introvert's world inner "inexhaustible charm" and subjective experience; Jerome Kagan's research on high reactivity and anxiety (see chapters 4 and 5); Elaine Aron's work on sensory processing sensitivity and its relationship

conscientiousness, intense feeling, inner-directedness, and depth of processing (see chapter 6); and various research on the persistence and concentration that introverts bring to problem-solving, much of it summarized wonderfully in Gerald Matthews's work (see chapter 7). Indeed, for over three

culture has linked the qualities in the above constellations of adjectives. As the anthropologist C. A.

thousand years, Western

Western cultural traditions include a conception of individual variability which appears to be old,

Valentine once wrote:

and widespread, persistent. In popular form this is the familiar notion of the man of action, practical man, realist, or sociable person as opposed to the thinker, dreamer, idealist, or shy individual. The most widely used labels associated with this tradition are the type

designations extrovert and introvert.

Valentine's concept of

introversion includes traits that contemporary psychology would classify as openness to experience ("thinker, dreamer"), conscientiousness ("idealist"), and ("shy neuroticism

individual").

A long line of poets, scientists, and philosophers have also tended to group these traits together. All the way back in Genesis, the earliest book of the Bible, we had cerebral Jacob (a "quiet man dwelling in tents" who later becomes "Israel," meaning one who wrestles inwardly with God) squaring off in sibling rivalry with his brother, the swashbuckling Esau (a "skillful hunter" and "man of the field"). In classical antiquity, the physicians Hippocrates and Galen famously proposed that our temperaments—and destinies—were a function of our bodily fluids, with extra blood and "yellow bile" making us sanguine or choleric (stable or neurotic extroversion), and an excess of phlegm and "black bile" making us calm or melancholic (stable or neurotic Aristotle introversion). noted that the melancholic temperament was associated with eminence in philosophy, poetry, and the arts (today we might classify this as openness to

experience). The seventeenth-century English poet John Milton wrote Il Penseroso ("The Thinker") and L'Allegro ("The Merry One"), comparing "the happy person" who frolics in the countryside and revels in the city with "the thoughtful person" who walks meditatively through the nighttime

woods and studies in a "lonely Towr." (Again, today the description of *Il* Penseroso would apply not only to introversion but also to openness experience and neuroticism.) The nineteenth-century philosopher German Schopenhauer contrasted "good-spirited" people (energetic, active, and

easily bored) with his preferred type, "intelligent (sensitive, people" imaginative, and melancholic). "Mark this well, ye proud men of action!" declared his Heinrich countryman Heine. "Ye are, after all, nothing but unconscious instruments of the men of thought." **Because**

definitional complexity, I originally planned to invent my own terms for these constellations of traits. I decided against this, again for cultural reasons: the words introvert and extrovert have the advantage of being well known and highly evocative. Every time I uttered them at a dinner party or to a seatmate on

an airplane, they elicited a torrent of confessions and reflections. For similar reasons, I've used the layperson's spelling of extrovert rather than the extravert one finds

throughout the research

literature.

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including

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upside down so I had time

Notes

INTRODUCTION: THE NORTH AND SOUTH OF TEMPERAMENT

1. Montgomery, Alabama.

December 1, 1955: For an excellent biography of Rosa Parks, see Douglas Brinkley, Rosa Parks: A Life (New York: Penguin, 2000). Most of the material in Quiet about Parks is

drawn from this work.

A note about Parks: Some have questioned the singularity of her actions, pointing out that she'd had plenty of civil rights training before boarding that bus. While this is true, there's no evidence, according to Brinkley, that Parks acted in a premeditated manner that evening, or even as an activist;

she was simply being herself. More important for *Quiet*'s not prevent her from being powerful; on the contrary, it made her a natural at nonviolent resistance.

purposes, her personality did

2. "north and south of temperament": Winifred Gallagher (quoting J. D. Higley), "How We Become What We Are," The Atlantic Monthly, September 1994. (Higley was talking about boldness and inhibition, not

- extroversion and introversion per se, but the concepts overlap in many ways.)

 3. governs how likely we are to
- **exercise**: Robert M. Stelmack, "On Personality and Arousal: A Historical Perspective on Eysenck and Zuckerman," in Marvin Zuckerman and Robert M. Stelmack, eds., On the Psychobiology of Personality:

Essays in Honor of Marvin

Zuckerman (San Diego: Elsevier,

Davis et al., "Motivations to Exercise as a Function of Personality Characteristics, Age, and Gender," Personality and Individual Differences 19, no. 2 (1995): 165–74. 4. commit adultery: Daniel Nettle, Personality: What Makes You the Way You Are (New York: Oxford University Press,

2007), p. 100. See also David

P. Schmitt, "The Big Five

2004), 22. See also Caroline

Related to Risky Sexual Behaviour Across 10 World **Regions:** Differential Personality Associations of Sexual Promiscuity and Relationship Infidelity," European Journal of Personality 18, no. 4 (2004): 301–19. 5. function well without sleep: William D. S. Killgore et al., "The Trait of Introversion-**Predicts** Extraversion Vulnerability Sleep to

Deprivation," Journal of Sleep Research 16, no. 4 (2007): 354-63. See also Daniel Taylor and Robert M. McFatter, "Cognitive Performance After Sleep Deprivation: Does Personality Make a Difference?" Personality and Individual Differences 34, no. 7 (2003): 1179-93; and Andrew Smith and Andrea Maben, "Effects of Sleep Deprivation, Lunch, Personality on Performance,

- Mood, and Cardiovascular Function," *Physiology and Behavior* 54, no. 5 (1993): 967–72.

 6. learn from our mistakes: See
- chapter 7.place big bets in the stock
- market: See chapter 7.8. be a good leader: See chapter
- 9. and ask "what if": See chapters 3 and 7.

2.

subjects: As of May 2, 2010, in the PSYCINFO database, there were 9,194 entries on "extraversion," 6,111 on

"introversion," and 12,494 on

10.

exhaustively researched

the overlapping subject of "neuroticism." There were fewer entries for the other "Big 5" personality traits: openness to experience, conscientiousness, and

agreeableness. Similarly, as of

June 14, 2010, a Google scholar search found about 64,700 articles on "extraversion," 30,600 on "extroversion," 55,900 on "introversion," and 53,300 on "neuroticism." The psychologist William Graziano, in an e-mail dated July 31, 2010, refers to introversion/extroversion as "the 300 lb. gorilla of personality, meaning that it is big and cannot be ignored

11. in the Bible: See "A Note on Terminology."

easily."

- 12. evolutionary some psychologists: See chapter 6.
- 13. one third to one half of Americans are introverts:

Rowan Bayne, in *The Myers-*

Briggs Type Indicator: A Critical Review and Practical Guide (London: Chapman and Hall, 1995), 47, finds the incidence of introversion at 36 percent, which is in turn determined from Isabel Myers's own study from 1985. A more recent study, published by the Center for Applications of Psychological Type Research Services in 1996, sampled 914,219 people and found that 49.3 percent were extroverts 50.7 percent were introverts. See "Estimated Frequencies of the Types in the

United States Population," a brochure published by the Center for Application of Psychological Type (CAPT) in 1996 and 2003. That the percentage of introverts found by these studies rose from 36 percent to 50.7 percent doesn't necessarily mean that there are now more introverts in the United States, according to CAPT. It may be "simply a reflection of the populations a wholly separate survey, this one using the Eysenck Personality Inventory and **Eysenck** Personality Questionnaire rather than the Myers-Briggs test, indicates that extraversion scores have increased over time (from 1966 to 1993) for both men and women: see Jean M. Twenge, "Birth Cohort Changes Extraversion: A Cross-Temporal

sampled and included." In fact,

Personality and Individual
Differences 30 (2001): 735–48.

14. United States is among the
most extroverted of nations:
This has been noted in two
studies: (1) Juri Allik and

Meta-Analysis, 1966–1993,"

Robert R. McCrae, "Toward a Geography of Personality Traits: Patterns of Profiles Across 36 Cultures," Journal of Cross-Cultural Psychology 35 (2004): 13–28; and (2) Robert

R. McCrae and Antonio Terracciano, "Personality Profiles of Cultures: Aggregate Personality Traits," Journal of Personality and Social Psychology 89:3 (2005): 407-25. 15. Talkative people, for example: William B. Swann Jr. Peter J. Rentfrow, and "Blirtatiousness: Cognitive, Behavioral, and Physiological

of

Rapid

Consequences

Personality and Social
Psychology 81, no. 6 (2001):
1160–75.
16. Velocity of speech counts:
Howard Giles and Richard L.
Street Jr., "Communicator
Characteristics and Behavior,"

Responding," Journal

in M. L. Knapp and G. R. Miller, eds., *Handbook of Interpersonal Communication*, 2nd ed. (Thousand Oaks, CA:

Sage, 1994), 103-61. (But note

slow speech can be perceived honest and benevolent, according to other studies.) 17. the voluble are considered

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Kathy L. Morgan, "Perceptions of Intelligence in Leaderless Groups: The Dynamic Effects of

smarter: Delroy L. Paulhus and

Shyness and Acquaintance," Journal of Personality and Social

Psychology 72, no. 3 (1997):

581-91.

Helgoe, Introvert Power: Why
Your Inner Life Is Your Hidden
Strength (Naperville, IL:

Sourcebooks, 2008), 3-4.

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- 20. **the theory of relativity**: Walter Isaacson, *Einstein: His*

Life and Universe (New York: Simon & Schuster, 2007), 4, 12,

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18, 2, 31, etc.

Asperger's Syndrome and the Arts (London: Jessica Kingsley,

The Genesis of Artistic Creativity:

- 2005), 69. See also Ira Progoff, Jung's Psychology and Its Social
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Szulc, Chopin in Paris: The Life

and Times of the Romantic

Composer (New York: Simon & Schuster, 2000), 69.

23. Proust's In Search of Lost

Time: Alain de Botton, How

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- 24. **Peter Pan**: Lisa Chaney, *Hide-and-Seek with Angels: A Life of J. M. Barrie* (New York: St.
- 25. Orwell's 1984 and Animal

Martin's Press, 2005), 2.

- Farm: Fitzgerald, The Genesis of Artistic Creativity, 89.

 Charlie Brown: David
- Michaelis, Schulz and Peanuts:

 A Biography (New York:
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57, 68.

Know It (New York: Penguin, 2009), 3229. Harry Potter: Interview of J. K.

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The End of the World as We

Rowling by Shelagh Rogers and

Lauren McCormick, Canadian

- Broadcasting Corp., October 26, 2000.
- 30. "Neither $E = mc^2$ nor Paradise Lost": Winifred Gallagher, I.D.: How Heredity and Experience Make You Who You Are (New

26. 31. vast majority of teachers

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Type to Educational Reform and Renewal," Proceedings of the First Biennial International Conference on Education of the Center for Applications of

Psychological Type (Gainesville, FL: Center for Applications of 32. Carl Jung had published a bombshell: Carl G. Jung, Psychological Types (Princeton,

263-71.

Psychological Type, 1994),

- NJ: Princeton University Press, 1971; originally published in
- German as *Psychologische Typen* [Zurich: Rascher Verlag, 1921]), see esp. 330–37.
- 33. the majority of universities and Fortune 100 companies:

 E-mail to the author, dated

Walling, director, Marketing
Communications and Product
Marketing, CPP, Inc.

34. introverts and extroverts

differ in the level of outside

stimulation ... Many have a

very different from Asperger's

July 9, 2010, from Leah L.

horror of small talk: See Part Two: "Your Biology, Your Self?"35. introvert is not a synonym for hermit: Introversion is also

syndrome, the autism spectrum disorder that involves difficulties with social interactions such as reading facial expressions and body language. Introversion and Asperger's both can involve feeling overwhelmed in social settings. But unlike people with Asperger's, introverts often have strong social skills. Compared with the one third to

one half of Americans who are

thousand people has Asperger's. See National Institute of Neurological Disorders and Stroke, Asperger Syndrome Fact Sheet, http://www.ninds.nih.gov/disoi 36. the distinctly introverted E.

M. Forster: Sunil Kumar, A

Companion to E. M. Forster, vol.

Publishers and Distributors,

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(New Delhi: Atlantic

introverts, only one in five

37. "human love at its height": E. M. Forster, Howards End (London: Edward Arnold,

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Sensitivity and an Adverse Childhood Environment," Personality and Social

Psychology Bulletin 31 (2005): 181-97.

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Journal of Research in

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290 - 307.

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Princeton University Press,

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Willingness to Communicate,
Communication Apprehension,

Introversion, and Self-Reported
Communication Competence:
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Finnish and American Comparisons. Communication

Research Reports, 8 (1991): 57.

Research Reports, 8 (1991): 57.

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CHAPTER 1: THE RISE OF THE "MIGHTY LIKEABLE FELLOW"

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contours of Carnegie's

1989). The 1902 date is an estimate based on the rough

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biography.

- Dale Carnegie, The Quick and Easy Way to Effective Speaking (New York: Pocket Books,
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 - by Dale Carnegie). 4. a Culture of Character to a

Culture of Personality: Warren Susman, Culture as

History: The Transformation of American Society in the Twentieth Century (Washington, DC: Smithsonian Institution Press, 2003), 271-85. See also Ian A. M. Nicholson, "Gordon Allport, Character, and the 'Culture of Personality,' 1897-1937," History of Psychology 1, no. 1 (1998): 52–68. 5. The word personality didn't

5. The word *personality* didn't exist: Susman, *Culture as History*, 277: The modern idea

of personality emerged in the early twentieth century and came into its own only in the post-World War I period. By 1930, according to the early personality psychologist Gordon W. Allport, interest in personality had reached "astonishing proportions." See also Sol Cohen, "The Mental Hygiene Movement, the Development of Personality and the School: The Education," History of Education Quarterly 32, no. 2 (1983), 123–49.

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Medicalization of American

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Thompson et al., Population

Trends in the United States (New

Science Publishers, 1969).

7. "We cannot all live in cities":
David E. Shi, *The Simple Life*:

York: Gordon and Breach

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- University of Georgia Press, 1985), 154.
- 8. "The reasons why one man gained a promotion": Roland Marchand, Advertising the American Dream: Making Way

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Johns Hopkins University

superiority": Amy Henderson,

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(Berkeley: University of

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10. a modest man who did not ... "offend by

Celebrity Culture," Organization of American Historians Magazine of History 6 (Spring 1992).

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Orison Swett Marden,

Character: The Grandest Thing in

the World (1899; reprint,

Kessinger Publishing, 2003),

"Media and the Rise of

13.12. But by 1920, popular selfhelp guides ... "That is the beginning of a

14. Success magazine and The
Saturday Evening Post: Carl
Elliott, Better Than Well:
American Medicine Meets the

American Dream (New York: W.

13. reputation for personality":

271-85.

Susman, Culture as History,

"fascination": Susman, 279.

16. "People who pass us on the

15. a mysterious quality called

W. Norton, 2003), 61.

"A Twelve-to-Twenty Talk," Women's Home Companion, September 1925: 71 (cited by Haiken, p. 91).

street": Hazel Rawson Cades,

17. Americans became obsessed with movie stars: In 1907 there were five thousand movie theaters in the United States; by 1914 there were 180,000 theaters and counting. The first films appeared in 1894, and though the identities of screen actors were originally kept secret by the film studios (in keeping with the ethos of a more private era), by 1910 the notion of a "movie star" was born, Between 1910 and 1915 the influential filmmaker D. W. Griffith made movies in which he juxtaposed close-ups of the stars with crowd scenes. His message was clear: here was the successful personality, standing out in all its glory against the undifferentiated nobodies of the world. Americans absorbed these messages enthusiastically. The vast majority of biographical profiles published in *The* Saturday Evening Post and

Collier's at the dawn of the twentieth century were about politicians, businessmen, and professionals. But by the 1920s and 1930s, most profiles were

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Chaplin. (See Susman and Henderson; see also Charles Musser, The Emergence of Cinema: The American Screen to 1907 [Berkeley: University of California Press, 1994], 81; and Daniel Czitrom, Media and the American Mind: From Morse to McLuhan [Chapel Hill: University of North Carolina Press, 1982, p. 42].) 18. "EATON'S HIGHLAND LINEN

Gloria Swanson and Charlie

- Marchand, Advertising the American Dream, 11.

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 Jennifer Scanlon, Inarticulate
 Longings: The Ladies' Home
 Journal, Gender, and the
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21. "EVER TRIED SELLING YOURSELF TO YOU?": Marchand, 209.

213.

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The star system dominated Christianity long before the concept of movie stars even existed. The dominant

evangelist of the First Great Awakening was a British showman named George Whitefield who drew standingroom-only crowds with his dramatic impersonations of biblical figures and unabashed weeping, shouting, and crying out. But where the First Great Awakening balanced drama with intellect and gave birth to universities like Princeton and Dartmouth, the Second Great personality-driven; its leaders focused purely on drawing crowds. Believing, as many megachurch pastors do today, that too academic an approach would fail to pack tents, many evangelical leaders gave up on intellectual values altogether and embraced their roles as salesmen and entertainers. "My theology! I didn't know I had exclaimed the any!"

Awakening was even more

nineteenth-century evangelist

D. L. Moody.

This kind of oratory affected

This kind of oratory affected not only styles of worship, but also people's ideas of who Jesus was. A 1925 advertising executive named Bruce Fairchild Barton published a book called *The Man Nobody* Knows. It presented Jesus as a

Knows. It presented Jesus as a superstar sales guy who "forged twelve men from the bottom ranks of business into an

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Social Phobia experience

concerns about embarrassment

or avoidance must interfere significantly with the person's normal routine, occupational or academic functioning, or social activities or relationships, or the person must experience marked distress about having the phobia. For example, a person who is afraid of speaking in public would not receive a diagnosis of Social Phobia if this activity is not routinely encountered on the person is not particularly distressed about it."

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CHAPTER 4: IS TEMPERAMENT DESTINY?

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CHAPTER 7: WHY DID WALL STREET

CRASH AND WARREN BUFFETT

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- 2. Financial history is full of

examples: There are also many examples from military history. "Hurrah, boys, we've got General Custer them!" famously shouted at the battle of Little Bighorn in 1876—just before his entire unit of two hundred men was wiped out by three thousand Sioux and

Cheyenne. General MacArthur advanced in the face of

repeated Chinese threats of

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with little strategic gain. Stalin

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- these days many scientists dislike the phrase "limbic system." This is because no one really knows which parts of the brain this term refers to. The brain areas included in this system have changed over the years, and today many use the term to mean brain areas that have something to do with

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 Wall Street's judgment was
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 the opportunity to earn large
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networks. In this chapter I focused on the dopaminedriven reward system and its role in delivering life's goodies. But there's a mirror-image brain network, often called the loss avoidance system, whose job is to call our attention to risk. If the reward network chases shiny fruit, the loss avoidance system worries about bad apples. The loss avoidance system,

double-edged sword. It can make people anxious, unpleasantly anxious, SO anxious that they sit out bull markets while everyone else gets rich. But it also causes them to take fewer stupid risks. This system is mediated in part by a neurotransmitter called serotonin—and when people are given drugs like Prozac (known as selective serotonin

like the reward network, is a

reuptake inhibitors) that affect the loss avoidance system, they become more blasé about danger. They also become more gregarious. These features coincide uncannily, points out the neurofinance expert Dr. Richard Peterson, with the behavior of irrationally exuberant investors. "The characteristics of decreased threat perception and increased social affiliation [resulting from

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CHAPTER 8: SOFT POWER

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Chinese kids in China as the

country Westernizes, according to a series of longitudinal studies measuring changes in social attitudes. While shyness was associated with social and academic achievement for elementary school children as recently as 1990, by 2002 it predicted peer rejection and even depression. See Chen, "Social Functioning and Adjustment in Chinese

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Place," *Slate*, June 25, 1996.

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Lemann: "Jews in Second

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24. Gandhi was, according to his autobiography: The story of

Gandhi related in this chapter comes primarily from Gandhi:

An Autobiography: The Story of My Experiments with Truth

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Story of Success (New York:

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Mathematics and Science Teaching, Learning Curriculum, and Achievement in International Context, Initial Findings from the Third International Mathematics and Science Study," U.S. Department of Education, National Center for Education Statistics, Pursuing Excellence, NCES 97-198 (Washington, DC: U.S. Government Printing Office, 1996).

27. In 2007, when researchers measured: TIMSS Executive Summary. The nations whose students fill out more of the

questionnaire also tend to have students who do well on the TIMSS test: Erling E. Boe et al., "Student Task Persistence in the Third International

Study: A Major Source of Achievement Differences at the National, Classroom and

Mathematics and Science

No. 2002-TIMSS1)
(Philadelphia: University of Pennsylvania, Graduate School

Student Levels" (Research Rep.

of Education, Center for Research and Evaluation in Social Policy). Note that this study was based on 1995 data.

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Priscilla Blinco: Priscilla
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CHAPTER 9: WHEN SHOULD YOU ACT MORE EXTROVERTED THAN YOU REALLY ARE?

1. Meet Professor Brian Little:

The stories about Brian Little throughout this chapter come from numerous telephone and e-mail interviews with the author between 2006 and 2010.

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see A Note on the Words

Introvert and Extrovert for more
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Schopenhauer, Jung: Please

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See also Walter Mischel and

Yuichi Shoda, "Reconciling

Processing Dynamics and

Annual Review of Psychology 49 (1998): 229–58. In further support of the premise that there truly is such a thing as a fixed personality: We know now that people who score as introverts on personality tests tend to have different physiologies and probably inherit some different genes from those who measure as extroverts. We also know that

Dispositions,"

Personality

personality traits predict an impressive variety of important life outcomes. If you're an extrovert, you're more likely to have a wide circle of friends, have risky sex, get into accidents, and excel at peopleoriented work like sales, human resources, and teaching. (This doesn't mean that you will do these things—only that you're more likely than your typical introvert to do them.) If more likely to excel in high school, in college, and in the land of advanced degrees, to have smaller social networks, to stay married to your original partner, and to pursue autonomous work like art, research, math, and engineering. Extroversion and introversion even predict the psychological challenges you might face: depression and

you're an introvert, you're

Woody Allen); hostility, narcissism, and overconfidence for extroverts (think Captain Ahab in *Moby-Dick*, drunk with rage against a white whale). In addition, there are studies showing that the personality of a seventy-year-old can be

anxiety for introverts (think

predicted with remarkable accuracy from early adulthood on. In other words, despite the remarkable variety of situations

that we experience in a lifetime, our core traits remain constant. It's not that our personalities don't evolve; Kagan's research on the malleability of high-reactive people has singlehandedly disproved this notion. But we tend to stick to predictable patterns. If you were the tenth most introverted person in your high school class, your behavior may fluctuate over

find yourself ranked around tenth at your fiftieth reunion. At that class reunion, you'll also notice that many of your classmates will be more introverted than you remember them being in high school: quieter, more self-contained, and less in need of excitement. Also more emotionally stable, agreeable, and conscientious. All of these traits grow more

time, but you probably still

Psychologists call this process "intrinsic maturation," and they've found these same patterns of personality development in countries as diverse as Germany, the UK, Spain, the Czech Republic, and Turkey. They've also found them in chimps and monkeys. This makes evolutionary sense. High levels extroversion probably help

pronounced with age.

with mating, which is why most of us are at our most sociable during our teenage and young adult years. But when it comes to keeping marriages stable and raising children, having a restless desire to hit every party in town may be less useful than the urge to stay home and love the one you're with. Also, a certain degree of introspection may help us age with

first half of life is to put yourself out there, the task of the second half is to make sense of where you've been.

equanimity. If the task of the

- 4. social life is performance: See, for example, Carl Elliott,
- Better Than Well: American

 Medicine Meets the American
 - Dream (New York: W. W. Norton, 2003), 47.
- 5. Jack Welch advised in a BusinessWeek: Jack Welch,

- "Release Your Inner Extrovert,"
 BusinessWeek online, November 26, 2008.6. Free Trait Theory: For an
- overview of Free Trait Theory, see, for example, Brian R. Little, "Free Traits, Personal Projects, and Ideo-Tapes: Three Tiers for Personality

Psychology," Psychological

Inquiry 7, no. 4 (1996): 340–

44.7. "To thine own self be true":

Actually, this advice comes not so much from Shakespeare as from his character Polonius in Hamlet. 8. research psychologist named

Richard Lippa: Richard Lippa, "Expressive Control, Expressive Consistency, and Correspondence

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12, no. 2 (2007): 177–92. 11. "Restorative niche" is

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Expanding a Social Ecological Model of Well-Being," in Person-Environment Psychology:

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12. "a Free Trait Agreement": See, for example, Brian Little and Maryann F. Joseph,

"Personal Projects and Free

- Traits: Mutable Selves and Well Beings," in Personal Project Pursuit: Goals, Action, and
- Human Flourishing, edited by Brian R. Little et al. (Mahwah, NJ: Lawrence Erlbaum
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 13. "Emotional labor": Howard S.

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Emotional Expression in Coronary Heart Disease," in In Search of the Coronary-Prone: Beyond Type A, edited by A. W. Siegman et al. (Hillsdale, NJ: Lawrence Erlbaum Associates, 1989), 149–68. 14. people who suppress **negative emotions**: Melinda Wenner, "Smile! It Could Make You Happier: Making an **Emotional** Face—or Suppressing One—Influences

Your Feelings," Scientific American Mind, October 14, 2009, http://www.scientificamerican.

http://www.scientificamerican.oid = smile-it-could-make-you-happier.

CHAPTER 10: THE COMMUNICATION GAP

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 - David M. Buss, Personality
 Psychology: Domains of
 Knowledge About Human Nature
 - (New York: McGraw-Hill, 2005), 353.2. "Extroverts seem to need
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- students: Jens B. Aspendorf and Susanne Wilpers, "Personality Effects on Social
 - Relationships," Journal of
 Personality and Social

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- 1531–44.
- 4. **so-called Big Five traits**: Agreeableness is defined later in this chapter. "Openness to

Experience" measures curiosity,

openness to new ideas, and appreciation for art, invention, and unusual experiences; "Conscientious" people are disciplined, dutiful, efficient, and organized; "Emotional Stability" measures freedom from negative emotions.

from negative emotions.

5. sit them down in front of a computer screen: Benjamin M.
Wilkowski et al.,
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Prolonged Spatial Processing of

Information," Journal Research in Personality 40, no. 6 (2006): 1152–68. See also Daniel Nettle, Personality: What Makes You the Way You Are (New York: Oxford University Press, 2007), chapter on agreeableness. 6. equally likely to be agreeable: Under the "Big

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extroversion and agreeableness

Antisocial and Prosocial

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Donald A. Loffredo and Susan K. Opt, "Argumentation and Myers-Briggs Personality Type Preferences," paper presented

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The

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- 13. **people who use Botox**: Carl Zimmer, "Why Darwin Would Have Loved Botox," *Discover*,

Joshua Ian Davis et al., "The Effects of BOTOX Injections on Emotional Experience," *Emotion* 10, no. 3 (2010): 433–40. 14. thirty-two pairs of introverts and extroverts: Matthew D. Lieberman and Robert Rosenthal, "Why Introverts

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CHAPTER 11: ON COBBLERS AND GENERALS

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Harper Paperbacks,
2000).

Natalie Madorsky Elman and Eileen Kennedy-Moore, *The Unwritten Rules of Friendship* (Boston: Little Brown, 2003).

Jerome Kagan and
Nancy Snidman, The
Long Shadow of
Temperament
(Cambridge, MA:
Harvard University
Press, 2004).

Barbara G. Markway and Gregory P. Markway, Nurturing the Shy Child (New York: St. Martin's Press, 2005).

Kenneth H. Rubin, *The Friendship Factor* (New York: Penguin, 2002).

Ward K. Swallow, The Shy Child: Helping Children Triumph Over Shyness (New York: Time Warner, 2000).

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5. **Dr. Kenneth Rubin**: Rubin,

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Forgotten Factor Impacting the

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Neuroscientist Reveals How to
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adulthood, or later life.... If your child finds one other child to befriend, and the pair clearly have fun together and enjoy each other's company and are supportive companions, good for him. Stop worrying. Not every child needs to be part of a big, happy gang. Not every child needs many friends; for some, one or two will do." 13. intense engagement in and

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"Personal Projects, Happiness, and Meaning: On Doing Well and Being Yourself," Journal of Personality and Social Psychology 74, no. 2 (1998): 494-512. the psychologist Dan

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P. McAdams, and Jennifer L.

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Eudaimonic

Well-Being,"

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A NOTE ON THE WORDS INTROVERT AND EXTROVERT

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the Revised Oxford Translation II
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