WE ARE ALL CONFIDENT IDIOTS

The trouble with ignorance is that it feels so much like expertise. A leading researcher on the psychology of human wrongness sets us straight.

BY DAVID DUNNING
PHOTOGRAPHS BY GREGG SEGAL

LAST MARCH, DURING THE ENORMOUS

South by Southwest music festival in Austin, Texas, the late-night talk show Jimmy Kimmel Live! sent a camera crew out onto the streets to catch hipsters bluffing. “People who go to music festivals pride themselves on knowing who the new acts are,” Kimmel said to his studio audience, “even if they don’t actually know who the new acts are.” So the host had his crew ask festival-goers for their thoughts about bands that don’t exist.
“The big buzz on the street,” said one of Kimmel’s inter-
viewers to a man wearing thick-framed glasses and a whimsi-
cal t-shirt, “is Contact Dermatitis. Do you think he has what it
takes to really make it to the big time?”

“Absolutely,” came the dazed fan’s reply.

The prank was an installment of Kimmel’s recurring “Lie
Witness News” feature, which involves asking pedestrians a
variety of questions with false premises. In another episode,
Kimmel’s crew asked people on Hollywood Boulevard whether
they thought the 2014 film Godzilla was insensitive to survivors
of the 1954 giant lizard attack on Tokyo; in a third, they asked
whether Bill Clinton gets enough credit for ending the Korean
War, and whether his appearance as a judge on America’s Got
Talent would damage his legacy. “No,” said one woman to this
last question. “It will make him even more popular.”

One can’t help but feel for the people who fall into Kimm-
el’s trap. Some appear willing to say just about anything on
camera to hide their cluelessness about the subject at hand
(which, of course, has the opposite effect). Others seem eager
to please, not wanting to let the interviewer down by
giving the most boringly appropriate response: I don’t know.
But for some of these interviewees, the trap may be an even
deeper one. The most confident-sounding respondents often
seem to think they do have some clue—as if there is some fact,
some memory, or some intuition that assures them their
answer is reasonable.

At one point during South by Southwest, Kimmel’s crew
approached a poised young woman with brown hair. “What
have you heard about Tonya and the Hardings?” the inter-
viewer asked, “Have you heard they’re kind of hard-hitting?”
Failing to pick up on this verbal wink, the woman launched
into an elaborate response about the fictitious band. “Yeah, a
lot of men have been talking about them, saying they’re really
impressed,” she replied. “They’re usually not fans of female
groups, but they’re really making a statement.” From some
mental gossamer, she was able to spin an authoritative review
of Tonya and the Hardings incorporating certain detailed facts:
that they’re real; that they’re female (never mind that, say,
Marilyn Manson and Alice Cooper aren’t); and that they’re a
tough, boundary-breaking group.

To be sure, Kimmel’s producers must cherry-pick the most
laughable interviews to put the air. But late-night TV is not
the only place where one can catch people extemporizing on
topics they know nothing about. In the more solemn confines
of a research lab at Cornell University, the psychologists Stav
Atir, Emily Rosenzweig, and I carry out ongoing research that
studies conducted by myself and others have con-


dedence, buoyed by


eading. Although what


e we know is often perceptible to us, even the broad outlines of
what we don’t know are all too often completely invisible. To
a great degree, we fail to recognize the frequency and scope of
our ignorance.

In 1999, in the Journal of Personality and Social Psychology,
my then-graduate student Justin Kruger and I published a pa-
per that documented how, in many areas of life, incompetent
people do not recognize—scratch that, cannot recognize—just
how incompetent they are, a phenomenon that has come to
be known as the Dunning-Kruger effect. Logic itself almost
demands this lack of self-insight: For poor performers to
recognize their ineptitude would require them to possess the
very expertise they lack. To know how skilled or unskilled you
are at using the rules of grammar, for instance, you must have
a good working knowledge of those rules, an impossibility
among the incompetent. Poor performers—and we are all
poor performers at some things—fail to see the flaws in their
thinking or the answers they lack.

What’s curious is that, in many cases, incompetence does
not leave people disoriented, perplexed, or cautious. Instead,
the incompetent are often blessed with an inappropriate con-

ience, buoyed by something that feels to them like knowledge.

This isn’t just an armchair theory. A whole battery of
studies conducted by myself and others have confirmed that
people who don’t know much about a given set of cognitive,
technical, or social skills tend to grossly overestimate their
prowess and performance, whether it’s grammar, emotional
intelligence, logical reasoning, firearm care and safety, debat-
ing, or financial knowledge. College students who hand in
exams that will earn them Ds and Fs tend to think their efforts
will be worthy of far higher grades; low-performing chess
players, bridge players, and medical students, and elderly people applying for a renewed driver’s license, similarly overestimate their competence by a long shot.

Occasionally, one can even see this tendency at work in the broad movements of history. Among its many causes, the 2008 financial meltdown was precipitated by the collapse of an epic housing bubble stoked by the machinations of financiers and the ignorance of consumers. And recent research suggests that many Americans’ financial ignorance is of the inappropriately confident variety. In 2012, the National Financial Capability Study, conducted by the Financial Industry Regulatory Authority (with the U.S. Treasury), asked roughly 25,000 respondents to rate their own financial knowledge, and then went on to measure their actual financial literacy.

The roughly 800 respondents who said they had filed bankruptcy within the previous two years performed fairly dismally on the test—in the 37th percentile, on average. But they rated their overall financial knowledge more, not less, positively than other respondents did. The difference was slight, but it was beyond a statistical doubt: 23 percent of the recently bankrupted respondents gave themselves the highest possible self-rating; among the rest, only 13 percent did so. Why the self-confidence? Like Jimmy Kimmel’s victims, bankrupted respondents were particularly allergic to saying “I don’t know.” Pointedly, when getting a question wrong, they were 67 percent more likely to endorse a falsehood than their peers were. Thus, with a head full of “knowledge,” they considered their financial literacy to be just fine.

Because it’s so easy to judge the idiocy of others, it may be sorely tempting to think this doesn’t apply to you. But the problem of unrecognized ignorance is one that visits us all. And over the years, I’ve become convinced of one key, overarching fact about the ignorant mind. One should not think of it as uninformed. Rather, one should think of it as misinformed.

An ignorant mind is precisely not a spotless, empty vessel, but one that’s filled with the clutter of irrelevant or misleading life experiences, theories, facts, intuitions, strategies, algorithms, heuristics, metaphors, and hunches that regrettably have the look and feel of useful and accurate knowledge. This clutter is an unfortunate by-product of one of our greatest strengths as a species. We are unbridled pattern-recognition and prodigious theorizers. Often, our theories are good enough to get us through the day, or at least to an age when we can procreate. But our genius for creative storytelling, combined with our inability to detect our own ignorance, can sometimes lead to situations that are embarrassing, unfortunate, or downright dangerous—especially in a technologically-advanced, complex democratic society that occasionally invests mistaken popular beliefs with immense destructive power (See: crisis, financial; war, Iraq). As the humorist Josh Billings once put it: “It ain’t what you don’t know that gets you into trouble.
It’s what you know for sure that just ain’t so.” (Ironically, one thing many people “know” about this quote is that it was first uttered by Mark Twain or Will Rogers—which just ain’t so.)

Because of the way we are built, and because of the way we learn from our environment, we are all engines of misbelief. And the better we understand how our wonderful yet kludge-ridden, Rube Goldberg engine works, the better we—as individuals and as a society—can harness it to navigate toward a more objective understanding of the truth.

**Born Wrong**

Some of our deepest intuitions about the world go all the way back to our cradles. Before their second birthday, babies know that two solid objects cannot co-exist in the same space. They know that objects continue to exist when out of sight, and fall if left unsupported. They know that people can get up and move around as autonomous beings, but that the computer sitting on the desk cannot. But not all of our earliest intuitions are so sound.

Very young children also carry misbeliefs that they will harbor, to some degree, for the rest of their lives. Their thinking, for example, is marked by a strong tendency to falsely attribute intentions, functions, and purposes to organisms. In a child’s mind, the most important biological aspect of a living thing is the role it plays in the realm of all life. Asked why tigers exist, children will emphasize that they were “made for being in a zoo.” Asked why trees produce oxygen, children say they do so to allow animals to breathe.

Any conventional biology or natural science education will attempt to curb this propensity for purpose-driven reasoning. But it never really leaves us. Adults with little formal education show a similar bias. And, when rushed, even professional scientists start making purpose-driven mistakes. The Boston University psychologist Deborah Keleman and some colleagues demonstrated this in a study that involved asking 80 scientists—people with university jobs in geoscience, chemistry, and physics—to evaluate 100 different statements about “why things happen” in the natural world as true or false. Sprinkled among the explanations were false purpose-driven ones, such as “Moss forms around rocks in order to stop soil erosion” and “The Earth has an ozone layer in order to protect it from UV light.” Study participants were allowed either to work through the task at their own speed, or given only 3.2 seconds to respond to each item. Rushing the scientists caused them to double their endorsements of false purpose-driven explanations, from 15 to 29 percent.

This purpose-driven misconception wreaks particular havoc on attempts to teach one of the most important concepts in modern science: evolutionary theory. Even laypeople who endorse the theory often believe a false version of it. They ascribe a level of agency and organization to evolution that is just not there. If you ask many laypeople their understanding of why, say, cheetahs can run so fast, they will explain it’s because the cats surmised, almost as a group, that they could catch more prey if they could just run faster, and so they acquired the attribute and passed it along to their cubs. Evolution, in this view, is essentially a game of species-level strategy.

This idea of evolution misses the essential role played by individual differences and competition between members of a species in response to environmental pressures: Individual cheetahs who can run faster catch more prey, live longer, and reproduce more successfully; slower cheetahs lose out, and die out—leaving the species to drift toward becoming faster overall. Evolution is the result of random differences and natural selection, not agency or choice.

But belief in the “agency” model of evolution is hard to beat back. While educating people about evolution can indeed lead them from being uninformed to being well-informed, in some stubborn instances it also moves them into the confidently misinformed category. In 2014, Tony Yates and Edmund Marek published a study that tracked the effect of high school biology classes on 536 Oklahoma high school students’ understanding of evolutionary theory. The students were rigorously quizzed on their knowledge of evolution before taking introductory biology, and then again just afterward. Not surprisingly, the students’ confidence in their knowledge of evolutionary theory shot up after instruction, and they endorsed a greater number of accurate statements. So far, so good.

The trouble is that the number of misconceptions the group endorsed also shot up. For example, instruction caused the percentage of students strongly agreeing with the true statement “Evolution cannot cause an organism’s traits to change during its lifetime” to rise from 17 to 20 percent—but it also caused those strongly disagreeing to rise from 16 to 19 percent. In response to the likewise true statement “Variation among individuals is important for evolution to occur,” exposure to instruction produced an increase in strong agreement from 11 to 22 percent, but strong disagreement also rose from 9 to 12 percent. Tellingly, the only response that uniformly went down after instruction was “I don’t know.”

And it’s not just evolution that bedevils students. Again and again, research has found that conventional educational practices largely fail to eradicate a number of our cradle-born misbeliefs. Education fails to correct people who believe that vision is made possible only because the eye emits some energy or substance into the environment. It fails to correct common intuitions about the trajectory of falling objects. And it fails to disabuse students of the idea that light and heat act under the same laws as material substances. What education often does appear to do, however, is imbue us with confidence in the errors we retain.
Misapplied Rules

Imagine that the illustration below represents a curved tube lying horizontally on a table:

![Curved Tube Illustration]

In a study of intuitive physics in 2013, Elanor Williams, Justin Kruger, and I presented people with several variations on this curved tube image and asked them to identify the trajectory of a ball that would take (marked A, B, or C in the illustration) after it had traveled through each. Some people got perfect scores, and seemed to know it, being quite confident in their answers. Some people did a bit less well—and, again, seemed to know it, as their confidence was much more muted.

But something curious started happening as we began to look at the people who did extremely badly on our little quiz. By now, you may be able to predict it: These people expressed more, not less, confidence in their performance. In fact, people who got none of the items right often expressed confidence that matched that of the top performers. Indeed, this study produced the most dramatic example of the Dunning-Kruger effect we had ever seen: When looking only at the confidence of people getting 100 percent versus 0 percent right, it was often impossible to tell who was in what group.

Why? Because both groups “knew something.” They knew there was a rigorous, consistent rule that a person should follow to predict the ball’s trajectory. One group knew the right Newtonian principle: that the ball would continue in the direction it was going the instant it left the tube—Path B. Freed of the tube’s constraint, it would just go straight.

People who got every item wrong typically answered that the ball would follow Path A. Essentially, their rule was that the tube would impart some curving impetus to the trajectory of the ball, which it would continue to follow upon its exit. This answer is demonstrably incorrect—but a plurality of people endorses it.

These people are in good company. In 1500 A.D., Path A was the accepted answer among sophisticated with an interest in physics. Both Leonardo da Vinci and French philosopher Jean Buridan endorsed it. And it does make some sense. A theory of curved impetus would explain common, everyday puzzles, such as why wheels continue to rotate even after someone stops pushing the cart, or why the planets continue their tight and regular orbits around the sun. With those problems explained, it’s an easy step to transfer their explanation to other problems like those involving tubes.

What this study illustrates is another general way—in addition to our cradle-born errors—in which humans frequently generate misbeliefs: We import knowledge from appropriate settings into ones where it is inappropriate.

Here’s another example: According to Pauline Kim, a professor at Washington University Law School, people tend to make inferences about the law based on what they know about more informal social norms. This frequently leads them to misunderstand their rights—and in areas like employment law, to wildly overestimate them. In 1997, Kim presented roughly 300 residents of Buffalo, New York, with a series of morally abhorrent workplace scenarios—for example, an employee is fired for reporting that a co-worker has been stealing from the company—that were nonetheless legal under the state’s “at-will” employment regime. Eighty to 90 percent of the Buffalonians incorrectly identified each of these distasteful scenarios as illegal, revealing how little they understood about how much freedom employers actually enjoy to fire employees. (Why does this matter? Legal scholars had long defended “at-will” employment rules on the grounds that employees consent to them in droves without seeking better terms of employment. What Kim showed was that employees seldom understand what they’re consenting to.)

Doctors, too, are quite familiar with the problem of inappropriately transferred knowledge in their dealings with patients. Often, it’s not the medical condition itself that a physician needs to defeat as much as patient misconceptions that protect it. Elderly patients, for example, frequently refuse to follow a doctor’s advice to exercise to alleviate pain—one of the most effective strategies available—because the physical soreness and discomfort they feel when they exercise is something they associate with injury and deterioration. Research by the behavioral economist Sendhil Mullainathan has found that mothers in India often withhold water from infants with diarrhea because they mistakenly conceive of their children as leaky buckets—rather than as increasingly dehydrated creatures in desperate need of water.

Motivated Reasoning

Some of our most stubborn misbeliefs arise not from primitive childlike intuitions or careless category errors, but from the very values and philosophies that define who we are as individuals. Each of us possesses certain foundational beliefs—narratives about the self, ideas about the social order—that essentially cannot be violated: To contradict them would call into question our very self-worth. As such, these views demand fealty from other opinions. And any information that we glean from the world is amended, distorted, diminished, or forgotten in order to make sure that these sacrosanct beliefs remain whole and unharmed.

One very commonly held sacrosanct belief, for example, goes something like this: I am a capable, good, and caring...
person. Any information that contradicts this premise is liable to meet serious mental resistance. Political and ideological beliefs, too, often cross over into the realm of the sacrosanct. The anthropological theory of “cultural cognition” suggests that people everywhere tend to sort ideologically into “cultural worldviews” diverging along a couple of axes: They are either individualist (favoring autonomy, freedom, and self-reliance) or communitarian (giving more weight to benefits and costs borne by the entire community); and they are either hierarchist (favoring the distribution of social duties and resources along a fixed ranking of status) or egalitarian (dismissing the very idea of ranking people according to status). According to the theory of cultural cognition, humans process information in a way that not only reflects these organizing principles, but also reinforces them. These ideological anchor points can have a profound and wide-ranging impact on what people believe, and even on what they “know” to be true.

It is perhaps not so surprising to hear that facts, logic, and knowledge can be bent to accord with a person’s subjective worldview; after all, we accuse our political opponents of this kind of “motivated reasoning” all the time. But the extent of this bending can be remarkable. In ongoing work with the political scientist Peter Enns, my lab has found that a person’s politics can warp other sets of logical or factual beliefs so much that they come into direct contradiction with one another. In a survey of roughly 500 Americans conducted in late 2010, we found that over a quarter of liberals (but only 6 percent of conservatives) endorsed both the statement “President Obama’s policies have already created a strong revival in the economy” and “Statutes and regulations enacted by the previous Republican presidential administration have made a strong economic recovery impossible.” Both statements are pleasing to the liberal eye and honor a liberal ideology, but how can Obama have already created a strong recovery that Republican policies have rendered impossible? Among conservatives, 27 percent (relative to just 10 percent of liberals) agreed both that “President Obama’s rhetorical skills are elegant but are insufficient to influence major international issues” and that “President Obama has not done enough to use his rhetorical skills to effect regime change in Iraq.” But if Obama’s skills are insufficient, why should he be criticized for not using them to influence the Iraqi government?

Sacrosanct ideological commitments can also drive us to develop quick, intense opinions on topics we know virtually nothing about—topics that, on their face, have nothing to do with ideology. Consider the emerging field of nanotechnology. Nanotech, loosely defined, involves the fabrication of products at the atomic or molecular level that have applications in medicine, energy production, biomaterials, and electronics. Like pretty much any new technology, nanotech carries the promise of great benefit (antibacterial food containers!) and the risk of serious downsides (nano-surveillance technology!).

In 2006, Daniel Kahan, a professor at Yale Law School, performed a study together with some colleagues on public perceptions of nanotechnology. They found, as other surveys had before, that most people knew little to nothing about the field. They also found that ignorance didn’t stop people from opining about whether nanotechnologies’ risks outweighed its benefits.

When Kahansurveyed uninformed respondents, their opinions were all over the map. But when he gave another group of respondents a very brief, meticulously balanced description of the promises and perils of nanotech, the remarkable gravitational pull of deeply held sacrosanct beliefs became apparent. With just two paragraphs of scant (though accurate) information to go on, people’s views of nanotechnology split markedly—and aligned with their overall worldviews. Hierarchics/individualists found themselves viewing nanotechnology more favorably. Egalitarians/collectivists took the opposite stance, insisting that nanotechnology has more potential for harm than good.

Why would this be so? Because of underlying beliefs. Hierarchists, who are favorably disposed to people in authority, may respect industry and scientific leaders who trumpet the unproven promise of nanotechnology. Egalitarians, on the other hand, may fear that the new technology could present an advantage that conveys to only a few people. And collectivists might worry that nanotechnology firms will pay insufficient heed to their industry’s effects on the environment and public health. Kahan’s conclusion: If two paragraphs of text are enough send people on a glide path to polarization, simply giving people more information probably won’t help the public arrive at a shared, neutral understanding of the facts; it will just reinforce their biased views.

One might think that opinions about an esoteric technology would be hard to come by. Surely, to know whether nanotech is a boon to humankind or a step towards doomsday would require some sort of knowledge about material science, engineering, industry structure, regulatory issues, organic chemistry, surface science, semiconductor physics, microfabrication, and molecular biology. Every day, however, people rely on the cognitive clutter in their minds—whether it’s an ideological reflex, a misapplied theory, or a cradle-born intuition—to answer technical, political, and social questions they have little or no direct expertise in. We are never all that far from Tonya and the Hardings.

**Seeing Through The Clutter**

Unfortunately for all of us, policies and decisions that are founded on ignorance have a strong tendency, sooner or later, to blow up in one’s face. So how can policymakers, teachers, and the rest of us cut through all the counterfeit knowledge—our own and our neighbors’—that stands in the way of our ability to make truly informed judgments?

The way we traditionally conceive of ignorance—as an
absence of knowledge—leads us to think of education as its natural antidote. But education, even when done skillfully, can produce illusory confidence. Here’s a particularly frightful example: Drivers’ education courses, particularly those aimed at handling emergency maneuvers, tend to increase, rather than decrease, accident rates. They do so because training people to handle, say, snow and ice leaves them with the lasting impression that they’re permanent experts on the subject. In fact, their skills usually erode rapidly after they leave the course. And so, months or even decades later, they have confidence but little leftover competence when their wheels begin to spin.

In cases like this, the most enlightened approach, as proposed by Swedish researcher Nils Petter Gregersen, may be to avoid teaching such skills at all. Instead of training drivers how to negotiate icy conditions, Gregersen suggests, perhaps classes should just convey their inherent danger—scare inexperienced students away from driving in winter conditions in the first place, and leave it at that.

But of course, guarding people from their own ignorance by sheltering them from the risks of life is seldom an option. Actually getting people to part with their misbeliefs is a far trickier, far more important task. Luckily, a science is emerging, led by such scholars as Stephan Lewandowsky at the University of Bristol and Ullrich Ecker of the University of Western Australia, that could help.

In the classroom, some of best techniques for disarming misconceptions are essentially variations on the Socratic method. To eliminate the most common misbeliefs, the instructor can open a lesson with them—and then show students the explanatory gaps those misbeliefs leave yawning or the implausible conclusions they lead to. For example, an instructor might start a discussion of evolution by laying out the purpose-driven evolutionary fallacy, prompting the class to question it. (How do species just magically know what advantages they should develop to confer to their offspring? How do they manage to decide to work as a group?) Such an approach can make the correct theory more memorable when it’s unveiled, and can prompt general improvements in analytical skills.

Then, of course, there is the problem of rampant misinformation in places that, unlike classrooms, are hard to control—like the Internet or in news media. In these Wild West settings, it’s best not to repeat common misbeliefs at all. Telling people that Barack Obama is not a Muslim fails to change many people’s minds, because they frequently remember everything that was said—except for the crucial qualifier “not.” Rather, to successfully eradicate a misbelief requires not only removing the misbelief, but filling the void left behind (“Obama was baptized in 1988 as a member of the United Church of Christ”). If repeating the misbelief is absolutely necessary, researchers have found it helps to provide clear and repeated warnings that the misbelief is false. I repeat, false.

The most difficult misconceptions to dispel, of course, are those that reflect sacrosanct beliefs. And the truth is that often these notions can’t be changed. Calling a sacrosanct belief into question calls the entire self into question, and people will actively defend views they hold dear. This kind of threat to a core belief, however, can sometimes be alleviated by giving people the chance to shore up their identity elsewhere. Researchers have found that asking people to describe aspects of themselves that make them proud, or report on values they hold dear, can make any incoming threat seem, well, less threatening.

For example, in a study conducted by Geoffrey Cohen, David Sherman, and other colleagues, self-described American patriots were more receptive to the claims of a report critical of U. S. foreign policy if, beforehand, they wrote an essay about an important aspect of themselves, such as their creativity, sense of humor, or family, and explained why this aspect was particularly meaningful to them. In a second study, in which pro-choice college students negotiated over what Federal abortion policy should look like, participants made more concessions to restrictions on abortion after writing similar self-affirmative essays.

Sometimes, too, researchers have found that sacrosanct beliefs themselves can be harnessed to persuade a subject to reconsider a set of facts with less prejudice. For example, conservatives tend not to endorse policies that preserve the environment as much as liberals do. But conservatives do care about issues that involve “purity” in thought, deed, and reality. Casting environmental protection as a chance to preserve the purity of the earth causes conservatives to favor those policies much more, as research by Matthew Feinberg and Robb Willer of Stanford University suggests. In a similar vein, liberals can
be persuaded to raise military spending if such a policy is linked to progressive values like fairness and equity beforehand—by, for instance, noting that the military offers recruits a way out of poverty, or that military promotion standards apply equally to all.

But here is the real challenge: How can we learn to recognize our own ignorance and misbeliefs? To begin with, imagine that you are part of a small group that needs to make a decision about some matter of importance. In small groups, behavioral scientists often recommend appointing someone to serve as a devil’s advocate—a person whose job is to question and criticize the group’s logic. While this approach can prolong group discussions, irritate the group, and be uncomfortable, the decisions that groups ultimately reach are usually more accurate and more solidly grounded than they otherwise would be.

For individuals, the trick is to be your own devil’s advocate: to think through how your favored conclusions might be misguided; to ask yourself how you might be wrong, or how things might turn out differently from what you expect. It helps to try practicing what the psychologist Charles Lord calls “considering the opposite.” To do this, I often imagine myself in a future in which I have turned out to be wrong in a decision, and then consider what the likeliest path was that led to my failure. And lastly: Seek advice. Other people may have their own misbeliefs, but a discussion can often be sufficient to rid a serious person of his or her most egregious misconceptions.

Civics for Enlightened Dummies

In an edition of “Lie Witness News” last January, Jimmy Kimmel’s cameras decamped to the streets of Los Angeles the day before President Barack Obama was scheduled to give his annual State of the Union address. Interviewees were asked about John Boehner’s nap during the speech and the moment before he was.characters. Reviews of the fictitious speech ranged from “awesome” to “powerful” to just “all right.” As usual, the producers had no trouble finding people who were willing to hold forth on events they couldn’t know anything about.

American comedians like Kimmel and Jay Leno have a long history of lampooning their countrymen’s ignorance, and American scolds have a long tradition of lamenting it. Every few years, for at least the past century, various groups of serious-minded citizens have conducted studies of civic literacy—asking members of the public about the nation’s history and governance—and held up the results as cause for grave concern over cultural decline and decay. In 1943, after a survey of 7,000 college freshmen found that only 6 percent could identify the original thirteen colonies (with some believing that Abraham Lincoln, “our first president,” “emaciated the slaves”), the New York Times lamented the nation’s “appallingly ignorant” youth. In 2002, after a national test of fourth, eighth, and twelfth graders produced similar results, the Weekly Standard pronounced America’s students “dumb as rocks.” In 2008, the Intercollegiate Studies Institute surveyed 2,508 Americans and found that 20 percent of them think the electoral college “trains those aspiring for higher political office” or “was established to supervise the first televised presidential debates.” Alarms were again raised about the decline of civic literacy. Ironically, as Stanford historian Sam Wineburg has written, people who lament America’s worsening ignorance of its own history are themselves often blind to how many before them have made the exact same lament; a look back suggests not a falling off from some baseline of American greatness, but a fairly constant level of clumsiness with the facts.

The impulse to worry over all these flubbed answers does make a certain amount of sense given that the subject is civics. “The questions that stumped so many students,” lamented Secretary of Education Rod Paige after a 2001 test, “involve the most fundamental concepts of our democracy, our growth as a nation, and our role in the world.” One implicit, shame-faced question seems to be: What would the Founding Fathers think of these benighted descendants?

But I believe we already know what the Founding Fathers would think. As good citizens of the Enlightenment, they valued recognizing the limits of one’s knowledge at least as much as they valued retaining a bunch of facts. Thomas Jefferson, lamenting the quality of political journalism in his day, once observed that a person who avoided newspapers would be better informed than a daily reader, in that someone “who knows nothing is closer to the truth than he whose mind is filled with falsehoods and errors.” Benjamin Franklin wrote that “a learned blockhead is a greater blockhead than an ignorant one.” Another quote sometimes attributed to Franklin has it that “the doorstep to the temple of wisdom is a knowledge of our own ignorance.”

The built-in features of our brains, and the life experiences we accumulate, do in fact fill our heads with immense knowledge; what they do not confer is insight into the dimensions of our ignorance. As such, wisdom many not involve facts and formulas so much as the ability to recognize when a limit has been reached. Stumbling through all our cognitive clutter just to recognize a true “I don’t know” may not constitute failure as much as it does an enviable success, a crucial signpost that shows us we are traveling in the right direction toward the truth. ★

David Dunning is a professor of psychology at Cornell University. He holds a PhD from Stanford University and a BA from Michigan State University, both in psychology. His lab’s website is http://cornellpsych.org/sas/index.php.