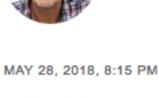
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The truth about lying: we live in a golden age of lies — and lie-detecting



By Peter Rowe



bout 20 years ago, UC San Diego's Michael Kalichman began studying the ethics of ▲ scientific researchers. A scientist himself — his Ph.D is in pharmacology —

"I had this loose idea that most scientists were good people," he said, "and a very small

percentage were deceptive, lying, cheating, horrible people."

That's the truth. We lie about how we feel ("Great!"), the chances we'll deliver that project

We lie about the overcooked meatloaf, about whether we cruised through that 55 mph zone at 80, about the sweater your favorite aunt knit for you.

"And we don't think of ourselves as bad people," said Kalichman, who founded UC San Diego's Research Ethics Program in 1997. "To some degree, I'm just going to say this is the human condition." While fibbing is as old as Cain, we live in a golden age of lying — and lie-detecting. Our

Recent developments are so intriguing, some foresee a future in which computers can detect our lies, even our unspoken emotions. "This is something of a holy grail," said Lawrence Hinman, a University of San Diego philosophy professor emeritus, "to find a way for machines to immediately tell whether

Honesty credits The spirit behind the Ninth Commandment, "Thou shalt not bear false witness against they neighbor," is one of civilization's building blocks.

"most of the time."

said. "Almost everyone did."

There's the rub. We want the truth, but we also want wiggle room. We tell white lies and rationalize in ways that bend or break the truth.

turn in the paper and receive \$1 for each right answer. After several repetitions, the experiment changed. This time, test-takers were instructed to

The padding, though, was slight. "People probably went through a rationalization: even though I didn't get that last one right, if I had time I would have gotten it right, so this is

"The idea was to see whether people would inflate the number they got right," Kalichman

He's found a similar pattern of deception among scientists. A minority of researchers would fudge their findings by small but significant amounts. "They'd think, it I had that one data point," Kalichman said, "it would be so much better."

the occasional report that, while outside the mainstream, may be true. "All of us have a tendency to discount things that are inconsistent with our world view," he

At the time, personal and corporate tax rates in the U.S. fell below Norway, Sweden, New Zealand, France, Belgium, Denmark and other nations.

United States was the world's most heavily taxed industrial nation.

Instances of personal dishonesty — from cheating on our taxes ("everyone else does it") to cheating on our spouses ("I'm neglected") — can also be framed in ways to deflect blame. Often, though, self-deception exacts a cost.

Big Proctor is watching Are some lies so heinous that the liar must be exposed and punished?

On Wednesday, six families of victims of the 2012 Sandy Hook Elementary School massacre sued Alex Jones for using his "InfoWars" radio show to argue that the bloody

lie: that the Sandy Hook shooting was staged," the lawsuit alleges, "and that the families who lost loved ones that day are actors who faked their relatives' deaths."

Amendment right to free speech. This new case relies on an old proposition — competing ideas or "truths" should be weighed in an open forum.

Jones' initial defense: his comments have been taken out of context, and he has a First

That was the theory, at least, but the lie-detector machine is still so suspect its findings are not admissable in court. Still, the search for an infallible truth-hunting device continues.

pressure and respiration, the polygraph machine could tell when a subject was lying.

After the software is downloaded, it scans the user's face and knuckles, comparing them against a stored biometric profile to ensure the exam is being taken by the registered student. The program continues to monitor the student until the completed test is emailed

eyes, a voice pitch that tightens, someone who avoids eye contact or, conversely, is too intent on catching your eye. Pupil dilation; blushing; a stilted, informal tone — the stress of lying manifests itself in numerous ways.

developing a promising new lie detector. "There's no one thing that is a silver bullet." Truthful Brain

whose computer screen shows a "virtual agent" who quizzes travelers. Do you have anything to declare?

Assessments in Real Time. Meant for airports and border crossings, AVATAR is a kiosk

For years, Elkins has been tinkering with the Automated Virtual Agent for Truth

Are you carrying any weapons?

Elkins said. "It's still a work in progress."

it changes your eye behavior."

Your reactions — changes in heart and respiratory rates, pupil dilation, eye movement are more revealing than your answers, and AVATAR instantly registers these.

"The target we are trying for with AVATAR is 30 seconds, 40 seconds, that's the goal,"

AVATAR relies in part on research by John Kircher, a University of Utah psychologist and

subject's eye blink rate, pupil dilation, and other movements. "When you tell a lie," said Converus spokesman Jeff Pizzino, "you have to think harder and

\$4,000. In April a superior court judge in New Mexico agreed to accept EyeDetect test results in evidence during a trial, a first for the technology.

insistance that his system is "completely infallible." Truthful Brain uses a functional Magentic Resonance Imaging machine (fMRI) to

photograph the brain while a subject answers questions by pushing "yes" or "no" buttons.

"Intentional lies require more work by the brain," said Huizenga, whose office is in La Jolla. "Blood rushes to part of the brain."

In fMRI scans supplied by Huizenga, the brain of someone telling the truth appears in shades of black and white. Lies show up as red and yellow flares.

"The computer's reasoning may no longer be transparent enough for humans to

understand how it reached that conclusion," Hinman said. "We will not know why the

Kalichman had no illusions. He thought.

Long pause. "I was pretty naive. Everybody lies."

on time ("No problem!"), how a sweetheart looks in parakeet-green golfing pants ("Nice!").

Some studies show the average American lies 15 to 20 times a day.

"post-truth" society with its alternative facts is also creating new ways to uncover deceit. New high-tech tools measure everything from tell-tale eye movements to revealing

patterns in the brain.

someone is lying or telling the truth."

"The fabric of our society depends on people more or less telling the truth," Hinman said,

UC San Diego's Kalichman cited a Harvard study involving students taking timed exams of simple math problems. When the time was up, they were given the answers and told to shred their papers and report the results, again collecting \$1 for each right answer.

my right score," Kalichman said.

But the scientific method contains a self-correcting mechanism. Experiments must be reproduceable by independent parties, and results are reported in peer-reviewed journals. This gives Kalichman confidence in the scientific consensus — which could blind him to

said. You see this in politics, where strong positions can prove impervious to factual evidence. In 2016, for instance, presidential candidate Donald Trump repeatedly claimed that the

Was he lying? "People think there's a larger truth that overrides any falsity in details," Hinman said.

"You use up your, if you will, your honesty credits with other people," Hinman said. "The more you lie, the less credibility you have."

Newtown, Conn., incident may have been a hoax. The commentator and his associates "persistently perpetuated a monstrous, unspeakable

"That's one of the theories of deliberative democracy," said Hinman, the USD philosopher, "that by having an open and transparent discussion, we can keep ourselves honest." Since 1921, though, technology has promised faster paths to the truth. By measuring blood

Proctortrack, for instance, is meant to halt cheating by students taking online classes. To date this computer program has proctored 1.7 million exams and flagged a staggering 5.5 million violations.

to the professor — along with screenshots of any suspicious activities. This program tracks external signs of lies. These "tells" are familiar to poker players, FBI agents, psychologists and others who study human behavior: a smile that doesn't reach the

"You look at all these things in tandem," said SDSU's Aaron Elkins, a researcher who is

Are there any fruits or vegetables in your bag?

a scientist at Converus, maker of EyeDetect. With an infrared camera, this system tracks a

While AVATAR is still in development, EyeDetect is on the market, selling for about Truthful Brain Corp. has yet to clear that legal hurdle, despite CEO Joel Huizenga

As sophisticated as these approaches are, some predict lie-detecting computers that have programmed themselves to sniff out truths we can't imagine.

computer thinks we are not telling the truth."

Better save up those honesty credits.