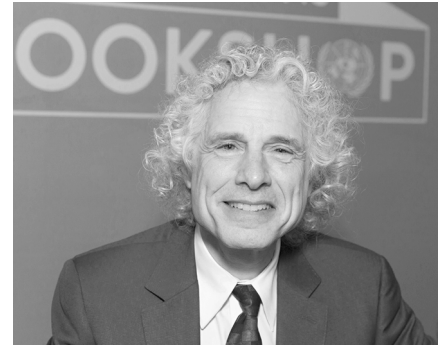


### Rationality

Excerpted from “Rationality: Why It Seems Scarce and Why It Matters” by Steven Pinker, Johnstone Family Professor of Psychology

- 1 Rationality ought to be the lodestar for everything we think and do. (If you disagree, are your objections rational?) Yet in an era blessed with unprecedented resources for reasoning, the public sphere is infested with fake news, quack cures, conspiracy theories, and “post-truth” rhetoric. We face deadly threats to our health, our democracy, and the livability of our planet. Though the problems are daunting, solutions exist. Yet among our fiercest problems today is convincing people to accept the solutions when we do find them.
- 2 How should we think of human rationality? The cognitive wherewithal to understand the world and bend it to our advantage is not a trophy of Western civilization. It is the patrimony of our species. The San of the Kalahari Desert in southern Africa are one of the world’s oldest peoples, and their foraging lifestyle offers a glimpse of the ways in which humans spent most of their existence. Hunter-gatherers don’t just chuck spears at passing animals or help themselves to fruit and nuts growing around them. The tracking scientist Louis Liebenberg, who has worked with the San for decades, has described how they owe their survival to 24. They reason their way from fragmentary data to remote conclusions with an intuitive grasp of logic, critical thinking, statistical reasoning, correlation and causation, and game theory. The San track fleeing animals from their hoofprints, effluvia, and other spoor. They distinguish dozens of species by the shapes and spacing of their tracks, aided by their grasp of cause and effect. They make syllogistic deductions. The San also engage in critical thinking. They know not to trust first impressions and appreciate the dangers of seeing what they want to see. Nor will they accept arguments from authority: Anyone, including a young upstart, may shoot down a conjecture or come up with his own until a consensus emerges from the disputation. Another critical faculty exercised by the San is distinguishing causation from correlation.
- 3 Yet for all the deadly effectiveness of the San’s technology, they have survived in an unforgiving desert for more than a hundred thousand years without exterminating the animals they depend on. During a drought, they think ahead to what would happen if they killed the last plant or animal of its kind, and they spare members of the threatened species. The sapience of the San makes the puzzle of human rationality acute. 26, today we are flooded with reminders of the fallacies and follies of our fellows. Three quarters of Americans believe in at



least one phenomenon that defies the laws of science, including psychic healing (55 percent), extrasensory perception (41 percent), haunted houses (37 percent), and ghosts (32 percent).

- 4 How, then, can we understand this thing called rationality, which would appear to be our birthright yet is so frequently and flagrantly flouted? The starting point is to appreciate that rationality is not a power that an agent either has or doesn't have, like Superman's X-ray vision, but a kit of cognitive tools that can attain particular goals in particular worlds. We must begin with establishing 28: the ways an intelligent agent ought to reason, given its goals and the world in which it lives. These "normative" models come from logic, philosophy, mathematics, and artificial intelligence, and they are our best understanding of the "correct" solution to a problem and how to find it. They serve as an aspiration for those who want to be rational, which should mean everyone.
- 5 Normative models also serve as benchmarks against which we can assess how humans reason, the subject matter of psychology and the other behavioral sciences. When people's judgments deviate from a normative model, as they so often do, we have a puzzle to solve. Sometimes the disparity reveals a genuine irrationality: The human brain cannot cope with the complexity of a problem, or it is saddled with a bug that cussedly drives it to the wrong answer time and again. But in many cases a problem may have been presented to them in a deceptive format, and when it is translated into a mind-friendlier guise, they ace it. Or the normative model may itself be correct only in a particular environment, and people accurately sense that they are not in that one, so the model doesn't apply. Or the model may be designed to bring about a certain goal, and, for better or worse, people are after a different one.
- 6 Though explanations of irrationality may absolve people of the charge of outright stupidity, to understand is not to forgive. Sometimes we can hold people to a higher standard. They can be taught to spot a deep problem across its superficial guises. They can be goaded into applying their best habits of thinking outside their comfort zones. And they can be inspired to set their sights higher than self-defeating or collectively destructive goals.

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## Tekst 7 Rationality

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- 1p 22 How does the writer introduce 'rationality' in paragraph 1?
- A as a cognitive faculty that lacks practical use for tackling ongoing issues
  - B as a valuable guiding principle that is neglected all too often nowadays
  - C as an academic abstraction that has more potential than is acknowledged
  - D as an outdated construct that has been the cause of current predicaments
- 1p 23 What is the function of the example of the San in paragraph 2?
- A to explain how rationality can emerge in adverse circumstances
  - B to point out that the rationality of primitive societies has evolved
  - C to stress that the roots of rationality can be traced back through time
  - D to support the claim that rationality is an inborn quality of all mankind
- 1p 24 Which of the following fits the gap in paragraph 2?
- A a faulty premise
  - B a scientific mindset
  - C a temperate lifestyle
  - D an ecological principle
- 2p 25 Geef aan of de volgende beweringen in overeenstemming zijn met alinea 3.  
*Noteer 'wel' of 'niet' achter elk nummer op het antwoordblad.*
- 1 The living conditions of the San have deteriorated over time.
  - 2 It is essential that we preserve the knowledge of the old tribes in today's world.
  - 3 The San favour the greater good over their own needs when circumstances require it.
  - 4 Certain paranormal experiences continue to baffle scientists.
- 1p 26 Which of the following fits the gap in paragraph 3?
- A As we cannot ignore behavioural irrationalities
  - B Because of a series of logical steps
  - C Despite our ancient capacity for reason
  - D Due to social unrest and communication errors
  - E Instead of stimulating common sense

'this thing called rationality, which would appear to be our birthright'  
(alinea 4)

- 1p 27 In welke zin in de tekst beweert de schrijver **voor het eerst** dat rationaliteit ons geboorterecht zou zijn?  
*Citeer de eerste twee woorden van deze zin.*
- 1p 28 Which of the following fits the gap in paragraph 4?  
**A** the origins of rational philosophies  
**B** the various disciplines of rationality  
**C** the consequences of rational actions  
**D** the ground truths of rationality itself
- 1p 29 Which of the following is true according to paragraph 5?  
**A** People rely on their innate reasoning faculties to understand an ever-changing world.  
**B** People sometimes behave illogically or erratically despite their innate reasoning faculties.  
**C** People's innate reasoning faculties and language competence are connected.  
**D** People's innate reasoning faculties exonerate them from making bad choices.
- 1p 30 How can the tone of paragraph 6 be characterised best?  
**A** as ambivalent  
**B** as hopeful  
**C** as matter-of-fact  
**D** as regretful

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**Bronvermelding**

Een opsomming van de in dit examen gebruikte bronnen, zoals teksten en afbeeldingen, is te vinden in het bij dit examen behorende correctievoorschrift.