

### The Hipster effect

- 1 You've probably seen this effect — perhaps you are a victim of it. You feel alienated from mainstream culture and wish to make clear that you are not part of it. You think about wearing different clothes, experimenting with a new hairstyle, or even trying unconventional makeup and grooming products. And yet when you finally reveal your new look to the world, it turns out you are not alone — millions of others have made exactly the same choices. Indeed, you all look more or less identical, 22
- 2 This is the hipster effect — the counterintuitive phenomenon in which people who oppose mainstream culture all end up looking the same. Similar effects occur among investors and in other areas.
- 3 How does this kind of synchronization occur? Today we get some answers thanks to the work of Jonathan Touboul at Brandeis University in Massachusetts. Touboul is a mathematician who studies the way the transmission of information through society influences the behavior of people within it. He focuses in particular on a society composed of conformists who copy the majority and anti-conformists, or hipsters, who do the opposite. And his conclusion is that in a vast range of scenarios, the hipster population always undergoes a kind of phase transition in which members become synchronized with each other in opposing the mainstream. In other words, the hipster effect is the inevitable outcome of the behavior of large numbers of people.
- 4 Crucially, Toubol's model takes into account the time needed for each individual to detect changes in society and to react accordingly. This delay is important. People do not react instantly when a highly fashionable pair of shoes becomes available. Instead, the information spreads slowly via fashion websites, word of mouth, and so on. This propagation delay is different for individuals, some of whom may follow fashion blogs



religiously while others have no access to them and have to rely on word of mouth.

- 5 The question that Touboul investigates is under what circumstances hipsters become synchronized and how this varies as the propagation delay and the proportion of hipsters both change. He does this by creating a computer model that simulates how agents interact when some follow the majority and the rest oppose it. This simple model generates some fantastically complex behaviors. In general, Touboul says, the population of hipsters initially act randomly but then undergo a phase transition into a synchronized state. He finds that this happens for a wide range of parameters.
- 6 It can be objected that the synchronization stems from the simplicity of scenarios offering a binary choice. "For example, if a majority of individuals shave their beard, then most hipsters will want to grow a beard, and if this trend propagates to a majority of the population, it will lead to a new, synchronized, switch to shaving," says Touboul. It's easy to imagine a different outcome if there are more choices. If hipsters could grow a mustache, a square beard, or a goatee, for example, then perhaps this diversity of choice would prevent synchronization. But Touboul has found that when his model offers more than two choices, it still produces the synchronization effect.
- 7 Hipsters are an easy target for a bit of fun, but the results have much wider applicability. For example, they could be useful for understanding financial systems in which speculators attempt to make money by taking decisions that oppose the majority in a stock exchange. 27, there are many areas in which delays in the propagation of information play an important role. As Touboul puts it: "Beyond the choice of the best suit to wear this winter, this study may have important implications in understanding synchronization of nerve cells, investment strategies in finance, or emergent dynamics in social science."

adapted from *technologyreview.com*, 2019

## Tekst 8 The hipster effect

---

- 1p 22 Which of the following fits the gap in paragraph 1?
- A as unique as you can be in a society that tends to steer towards uniformity.
  - B because you are naturally inclined to prefer substance over appearance.
  - C the exact opposite of the nonconformist statement you wanted to achieve.
  - D the intended consequence of you doing your best to stand out in the crowd.
- 1p 23 'Similar effects occur among investors and in other areas.' (alinea 2)  
Wordt hier in een alinea verderop in de tekst nog op teruggesproken? Zo nee, antwoord 'Nee'. Zo ja, noteer het nummer van de alinea waarin dit gebeurt.
- 1p 24 What is the point made about hipsters in paragraph 3?
- A Being affected by their peers is what they try to avoid above all else.
  - B By trying to be different they will end up resembling each other.
  - C Their ideas and ideals are more mainstream than they care to admit.
  - D Their subconscious desire to belong to a group is relatively strong.
- 1p 25 What is the point made in paragraph 4?
- A Most human beings are systematically geared towards harmonising their looks.
  - B Popular beliefs determine the speed with which revolutions are embraced.
  - C The average person finds it hard to come to terms with transformations.
  - D The integration of new data proceeds at a different pace for each person.
- 1p 26 What is the point made about synchronisation in paragraph 6?
- A It can be more difficult to achieve than previously assumed.
  - B It is considerably easier to detect in a controlled environment.
  - C It is often overlooked in the analysis of empirical research.
  - D It will take place regardless of how many factors are in play.
- 1p 27 Which of the following fits the gap in paragraph 7?
- A Consequently
  - B Indeed
  - C Instead
  - D Nevertheless

---

### Bronvermelding

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