



of a language by counting the number of people who speak it as a mother tongue. There is enormous variation in the size of languages. While the sixteen largest account for half of the human population, there are more than three thousand small languages spoken by fewer than 10,000 people.

The network effect, reinforced by modern communications technologies, would seem to favour the consolidation of human beings on to a much smaller set of spoken languages, posing a threat to the continued survival of the vast majority of the 6,500 languages in use. But is that actually what is happening? In work recently published in *The Economic Journal*, I bring two data sources to bear on the question of whether the world's languages are consolidating. These sources allow me to address the question from different angles, and both provide the same answer. Language consolidation does appear to be underway, but only for those languages with fewer than 35,000 speakers. That means that around 1,900 languages are large enough to be under no threat at all. I conduct simulations using the relationship between language size and growth that suggest about 1,600 languages will become extinct in the next 100 years.

There are two ways to look at these results. On the one hand, the extinction of a quarter of the world's extant languages would represent a significant loss of human cultural diversity. From that perspective, language consolidation appears as a significant problem. On the other hand, it is striking just how small the minimum viable size for a language remains in a world with such cheap and easy long-distance communication. A settlement of 35,000 people would be considered small almost anywhere in the modern world. That such a small group could maintain its own language in a globalised world is remarkable.

Given the power of these technologies, why are people not abandoning languages that connect them with only 50,000 or 100,000 other people? The answer to this question is less certain, though there are three likely explanations. The first is that much linguistic communication is face-to-face and thus very localised. Above all else, one must be able to speak with others in one's family, those one works with, and members of their local community. For the vast majority of human beings, those interactions happen within just a few miles of where they live. Second, many goods that can be produced far away, such as clothing and food, do not require knowledge of another language to consume. Third, bilingualism in a second, more widely spoken language need not lead to displacement of a small-sized mother tongue over time. Indeed, a small cadre of bilinguals can serve many of the external communication needs of a small language community.

The data I use primarily reflects conditions at the end of the 20th century. It therefore does not reflect changes that may have come or will come with the wider diffusion of the internet. Only 178 languages, a mere three per cent of the total, have any content at all on the internet. Only 11 per cent of the world's internet users come from English-majority countries, more than half of all web pages are in English ([W3Techs](#) and [WDI](#)). While it is possible that the internet may increase the minimum viable size for a language, my suspicion is that the main result will be to promote more bilingualism. Consider the case of the Netherlands, where knowledge of Dutch is under no threat despite more than 90 per cent of the population being able to speak English.

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Notes:

- This blog post is based on the author's paper [Are The World's Languages Consolidating? The Dynamics and Distribution of Language Populations](#), in the *Economic Journal*, Volume 127, issue 599, pp 143-176, February 2017.
- The post gives the views of its author, not the position of LSE Business Review or the London School of Economics and Political Science.
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