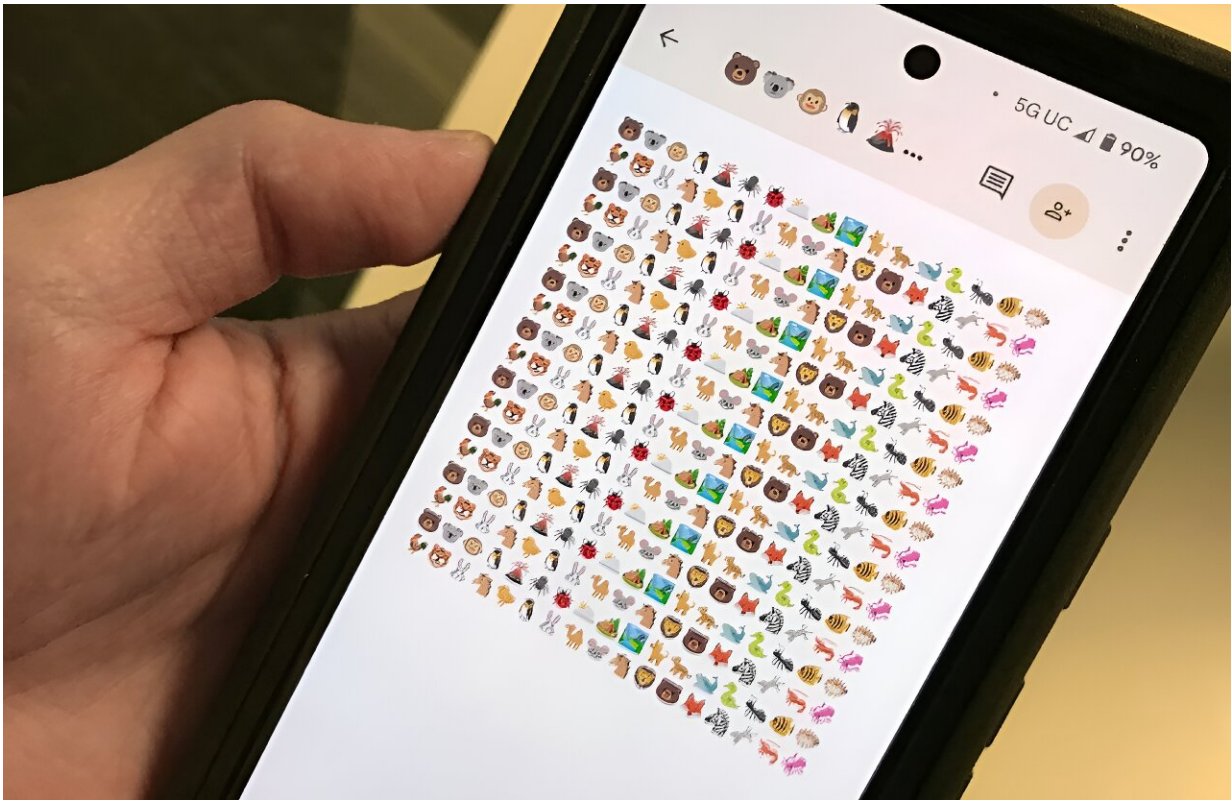


# Fungi and flatworms: Scientists want more diverse nature emojis

December 12 2023



An analysis published Monday in the journal *iScience* found that while animals are well represented by the current emoji catalog, plants, fungi, and microorganisms get short shrift.

Too many cats, not enough crustaceans: The current emoji catalog doesn't accurately represent the breadth of biodiversity seen in

nature—and that hurts conservation efforts, according to scientists.

An analysis published Monday in the journal *iScience* found that while animals are well represented by the current emoji catalog, plants, fungi, and microorganisms get short shrift.

"While the [biodiversity crisis](#) may seem distant from the [online world](#), in our increasingly digitized society, we should not underestimate the potential of emojis to raise awareness and foster appreciation for the [diversity of life](#) on Earth," wrote authors Stefano Mammola, Mattia Falaschi, and Gentile Francesco Ficetola.

"The development and maintenance of diverse and inclusive emoji sets are crucial to ensure the equitable representation of the tree of life in digital communication tools," added the University of Milan conservation biologists.

The team assessed emojis related to nature and animals available in Emojipedia, a curated online catalog of emojis, and tracked how these changed between 2015 and 2022.

Among animals, vertebrates—including mammals, birds, reptiles, amphibians, and [bony fish](#)—were overrepresented, making up 76 percent of animal emojis.

Arthropods, including insects, arachnids, crustaceans, were proportionally underrepresented, despite there being 1.3 million described species of arthropod compared to 85,000 known species of vertebrate.

The researchers also noted there were no emojis representing either platyhelminths—flatworms, including tapeworms—or nematodes, despite there being more than 20,000 platyhelminth species and almost

20,000 nematode species.

On the flip side, they found emoji biodiversity was increasing. "Annelids gained representation in 2020 with the addition of the 'worm' emoji, which most likely represents an earthworm, and cnidarians gained representation in 2021 with the addition of a red coral emoji," they found.

**More information:** Biodiversity communication in the digital era through the Emoji Tree of Life, *iScience* (2023). [DOI: 10.1016/j.isci.2023.108569](https://doi.org/10.1016/j.isci.2023.108569). [www.cell.com/iscience/fulltext ... 2589-0042\(23\)02646-9](https://www.cell.com/iscience/fulltext/S2589-0042(23)02646-9)

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