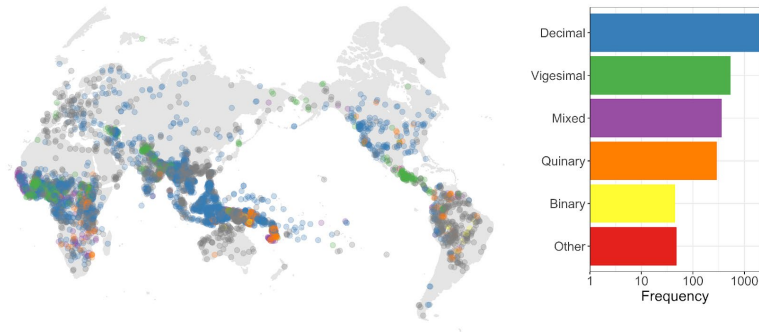

Regularity and diversity in the world's numeral systems: The NumeralBank database

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Numeral systems are uniquely human achievements, essential for numerical cognition, present in almost every speech community around the world— and yet, there is striking diversity in their structure, shape, and function. We introduce NumeralBank: an extensible open-access database designed to facilitate the documentation, exploration, and analysis of the world's numeral systems, as well as how they relate to usage, communication, and cognition.

To date, NumeralBank includes standardized data on numeral systems 4,000+ languages covering all continents, major language families, and cultural areas (see Figure). In this talk, we comparatively describe the properties of numeral systems based on NumeralBank. In this talk, we comparatively describe the properties of numeral systems based on NumeralBank. Our analyses include compositionality of numerals across languages, and their structure (form) with respect to the numbers they represent (meaning).



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