

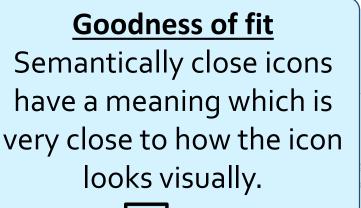
Building a Global Visual Language: What Do 1,000 People Think of 1,000 Icons?

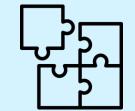


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PROJECT AIM

- Icons convey information intended to be understood by everyone.
- Yet, what we know about icons comes from very few (<200 people) and very WEIRD people (e.g., Western, rich).
- Our aim is to discover how icons are perceived by a diverse sample of people, across ages, languages, & cultures.





Concreteness Concrete icons depict reallife objects, places, or people.

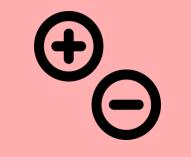
WHAT ARE THE KEY ICON CHARACTERISTICS?

Just an icon of a dog!



Valence

How intrinsically positive or aversive an icon is (positivity/negativity).



Feeling Icons can make you feel happy or sad.

English

other

Polish

Portuguese

METHOD – (what did we do with the MASI fund?)

• Collected and catalogued over 1,000 icons from various sources – e.g., The Noun Project, BSI, ISO.

German

Isizulu

Nepali

Pashto

Shona

Slovak

Sotho

Thai

Twi

Urdu

Xhosa

Setswana

Ukrainian

Mandarin

Hungarian Isixhosa

- 3 Experiments, with over 1,000 participants, yielding over 398,376 data points and counting.
- In each experiment, seven surveys (Likert 1-7 scales) collected ratings of 7 icon characteristics.

RESULTS SO FAR

- 36 Languages were sampled Fig. 1.
- There are differences in how icon characteristics are rated by different language speakers.
- Fig.2 shows how ratings of icon appeal differed across different languages (English was subsampled to match the other languages).

Fig. 1: Languages of our participants

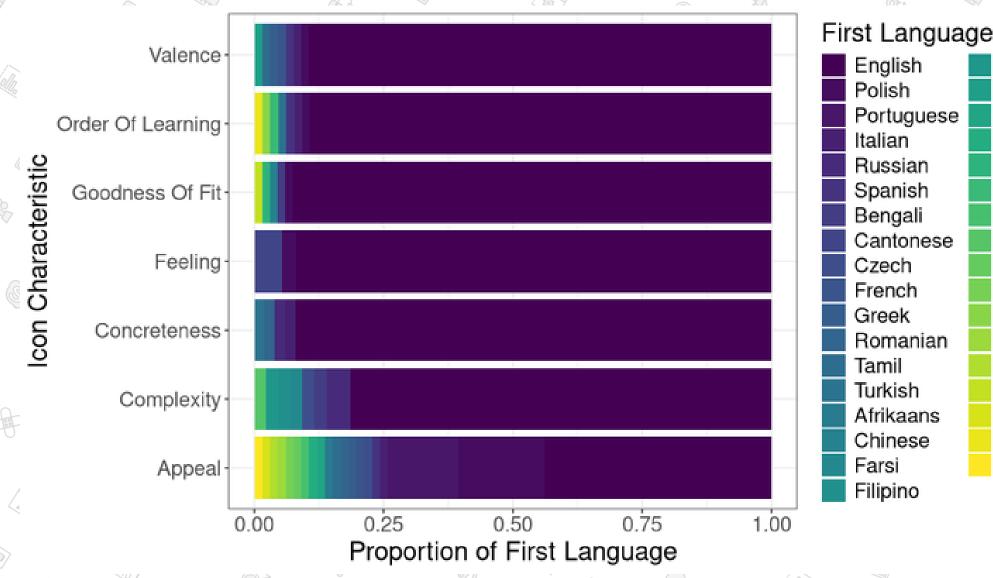
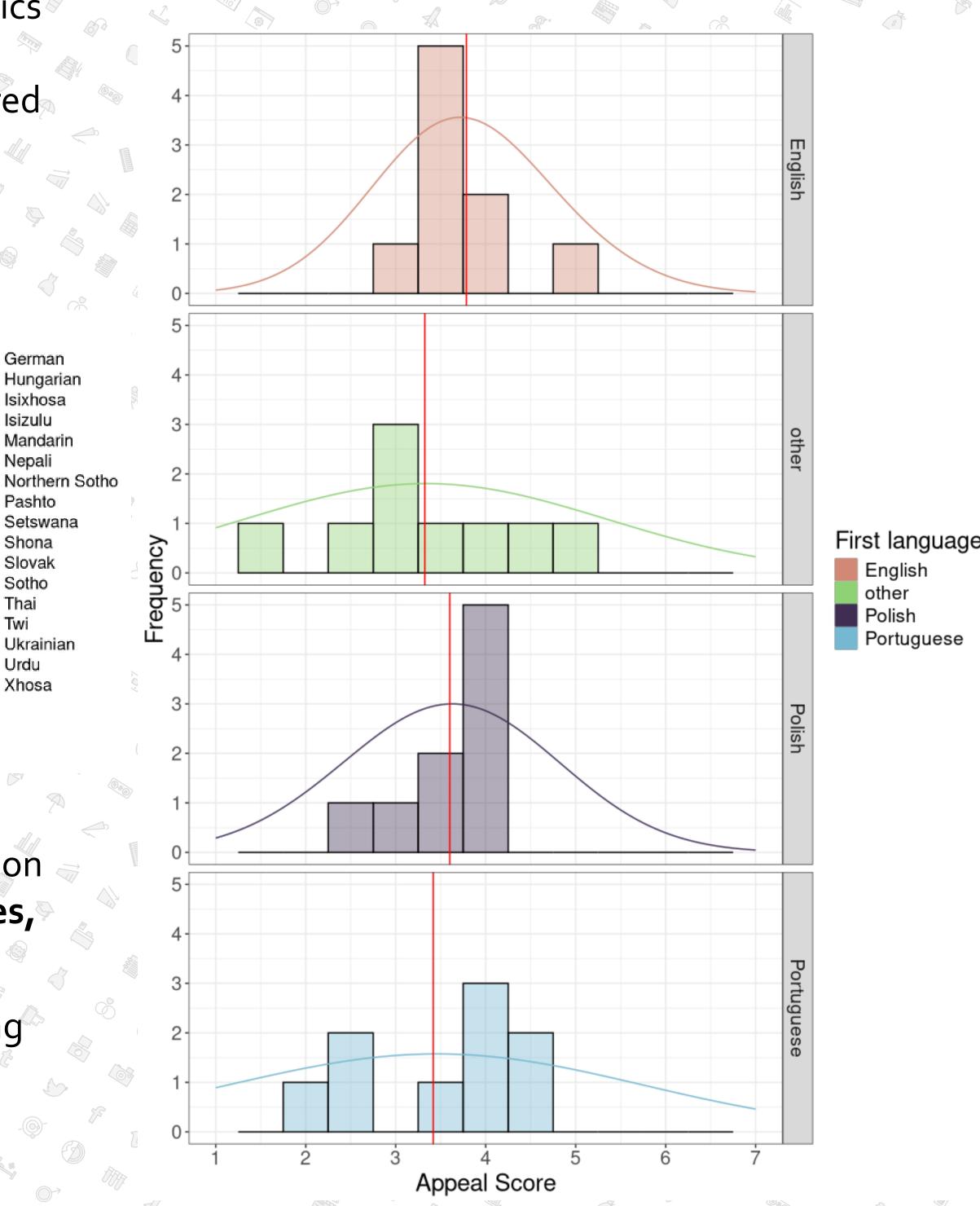


Fig. 2: Significant differences in ratings of appeal across different languages.



WHAT'S NEXT?

- Examine differences and similarities in perception and understanding of icons across ages, cultures, languages, and neural diversity.
- Train algorithms that can classify icons according their characteristics, thereby removing the obstacles for developers to use icons based on evidence-based principles.