Metaphorical height contrasts across sign languages and in cross-signing

Carl Börstell Centre for Language Studies Radboud University

"Is space used to convey valence across sign languages?"

Data & Methodology

Dataset 1

786 property signs (positive vs. negative) 27 sign languages¹

Dataset 2

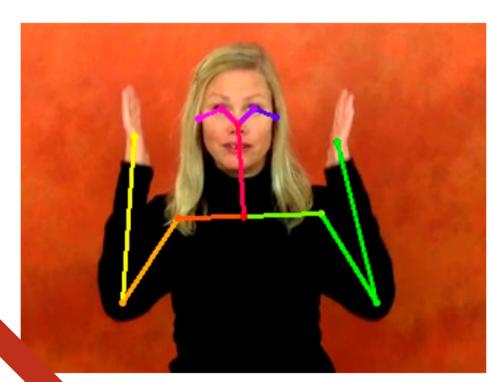
15 mins of cross-signing (NGT ~ Chinese SL)

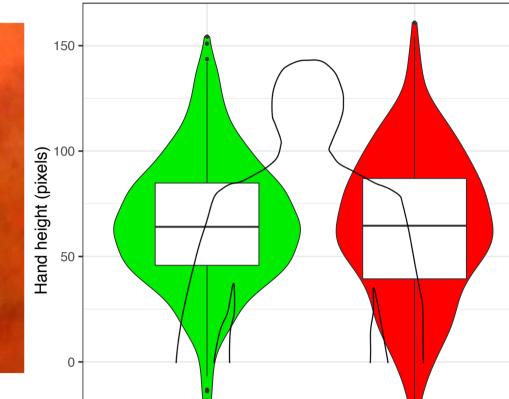
Analyses

Manual/automated² sign height and movement directions + stats and plots³

Static sign height is not relevant

Auto





Manual

good, happy, alive, ...

Vertical movements (upward/downward) are associated with valence in antonyms across languages

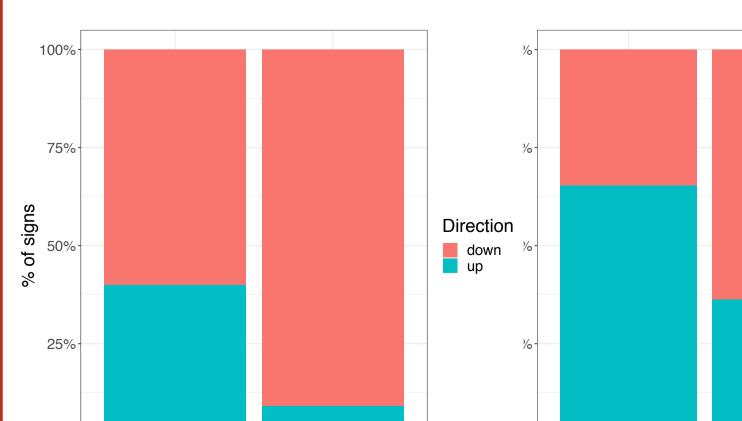
sample, movement in signing space is associated with valence (pos vs. neg):

In

the

language

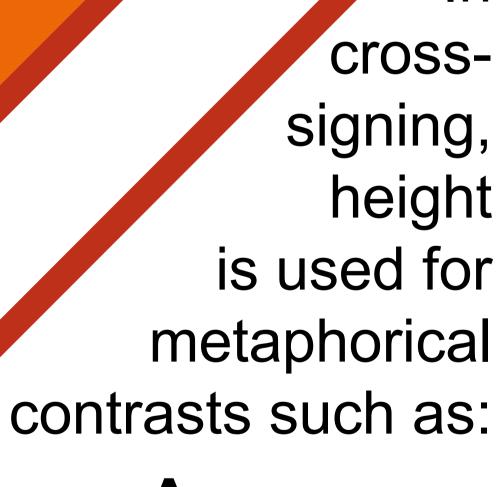
- Upwards = positive^{4,5}
- Outwards = positive!



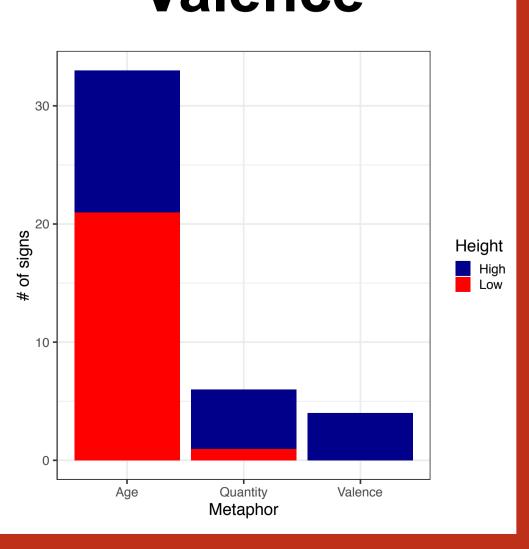
Valence

Direction inwards outwards

bad, sad, dead, ...



- Age
- Quantity
- Valence



Directional movements are relevant

Valence

Vertical contrasts in cross-signing