# Metaphorical height contrasts across sign languages and in cross-signing

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

## Data & Methodology

### **Dataset 1**

786 property signs (positive vs. negative) 27 sign languages<sup>1</sup>

### Dataset 2

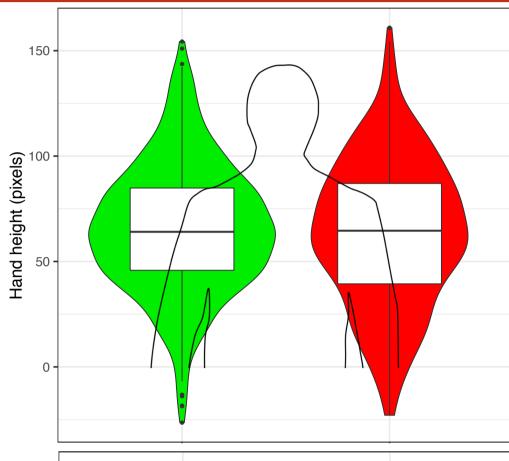
15 mins of cross-signing (NGT ~ Chinese SL)

## **Analyses**

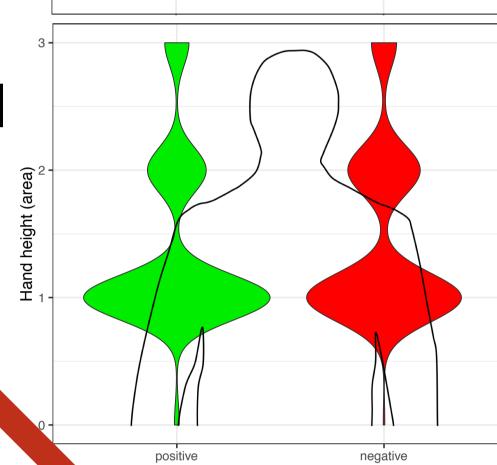
sign height and movement directions + stats and plots<sup>3</sup>

## Static sign height is not relevant

Auto



Manual



good, happy, alive, ...

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

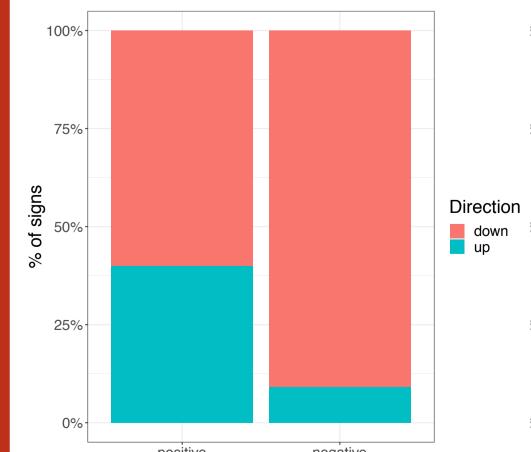
# Manual/automated<sup>2</sup>

In the

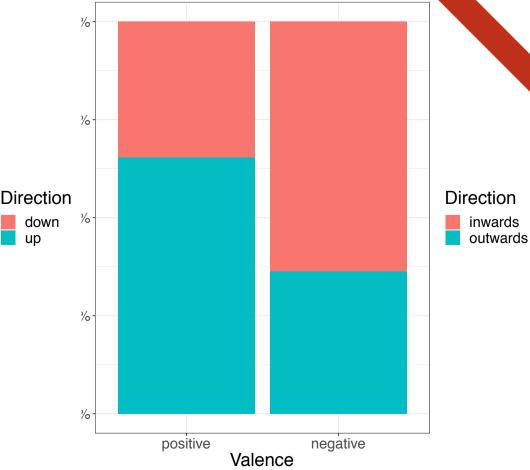
language sample, movement in signing space is associated with valence (pos vs. neg):

– Upwards = positive<sup>4,5</sup>

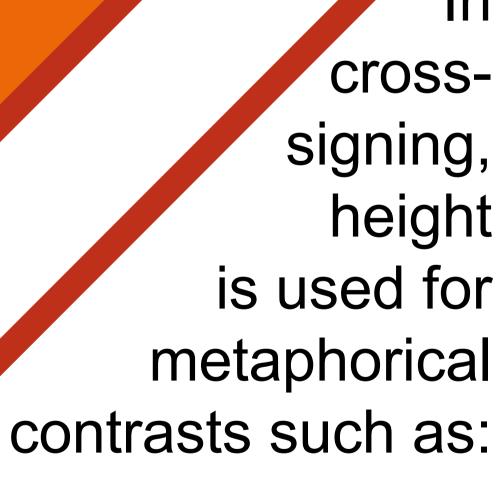
– Outwards = positive!



Valence

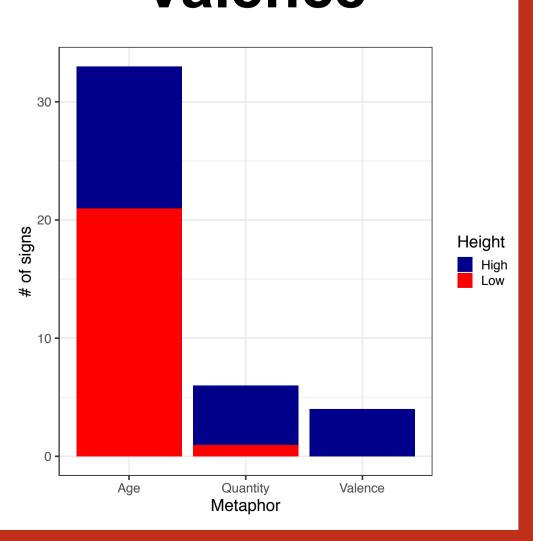


bad, sad, dead, ...





- Quantity
- Valence



Directional movements are relevant

Vertical contrasts in cross-signing