

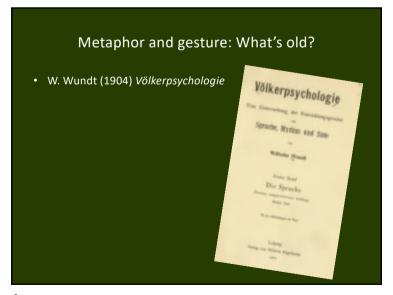
Metaphor and gesture: What's new?

- What's old?
- What's less old?
- What's new/current?
- What could be new?

you still learn
something from that
about how another
group of people
sees the world
and how difficult
it is
to translate
that
so neatly
into your own
language

— philosopher Martha Nussbaum
on the value of learning a foreign language
("Conversations with history", http://conversations.berkeley.edu/)

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#### Metaphor and gesture: What's "old"?

- W. Wundt (1904) Völkerpsychologie
- D. McNeill & E. Levy (1982) "Conceptual representations in language activity and gesture"
- D. McNeill (1985) "So you think gestures are nonverbal?"
- D. McNeill (1992) Hand and mind: What gestures reveal about thought
- G. Calbris (1990 [1984]) The semiotics of French gestures





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#### Metaphor and gesture: What's less old?

- A. Cienki & C. Müller (Eds.) (2008) Metaphor and gesture
- A. Cienki & C. Müller (2008) "Metaphor, gesture, and thought" (Cambridge handbook of metaphor and thought)
- C. Müller (2008) Metaphors dead and alive, sleeping and waking. A dynamic view





Metaphor and gesture: What's less old?

- R. Webb (1996) "Linguistic features of metaphoric gestures" (PhD thesis, U. of Rochester)
- A. Cienki (1998) "Metaphoric gestures and some of their relations to verbal metaphoric expressions"
- E. Sweetser (1998) "Regular metaphoricity in
- C. Müller (1998) Redebegleitende Gesten



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#### Metaphor and gesture: Where are we now?

- Some important points:
  - Gesture is inherently dynamic
  - Gesture is spatial, but also motoric/kinesthetic (felt bodily)
    - Gesture as "expressive movement" (Müller, Kappelhoff)
  - Metaphor in gesture appears by representing an (abstract) idea in the physical form of something else

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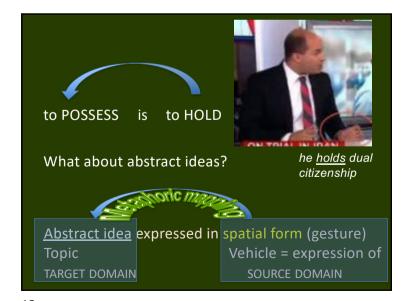
Idea of something physical

expressed in spatial form (gesture)

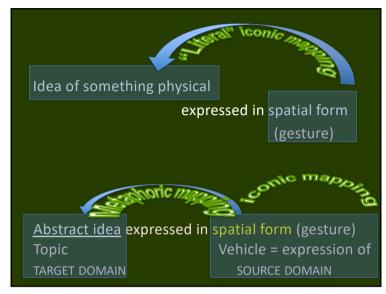
What about abstract ideas?

Abstract idea expressed in spatial form (gesture)

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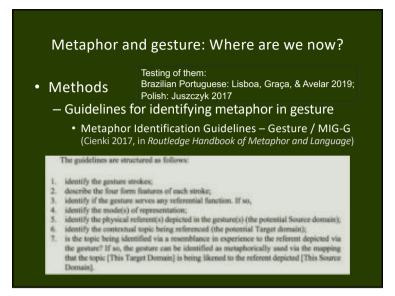


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## Metaphor and gesture: What's new/current?

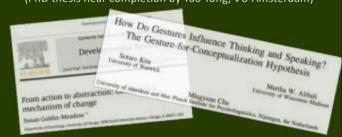
- Research from cognitive science/cognitive psychology/psycholinguistics
- Research from linguistics
  - Research on different semantic domains
- Applications

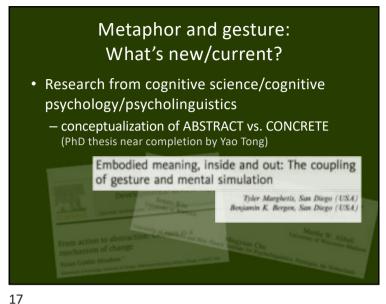


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# Metaphor and gesture: What's new/current?

- Research from cognitive science/cognitive psychology/psycholinguistics
  - conceptualization of ABSTRACT vs. CONCRETE
     (PhD thesis near completion by Yao Tong, VU Amsterdam)





Metaphor and gesture: What's new/current? Research from cognitive science/cognitive psychology/psycholinguistics gesture in teaching mathematics Gesturing Gives Children New Ideas About Math

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Gestures and learning mathematics • 3 + 4 + 5 = Susan Goldin-Meadow:

Metaphor and gesture: What's new/current? • Research from cognitive science/cognitive psychology/psycholinguistics gesture in teaching/learning foreign languages Pedagogical Gestures as Interactional Teaching and Learning Tense he ESL Grammar Classroom How to make yourself understood international students: The role

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## Metaphor and gesture: What's new/current?

- Research from linguistics, communication studies
  - Research on different semantic Target domains
    - TIME
    - DISCOURSE

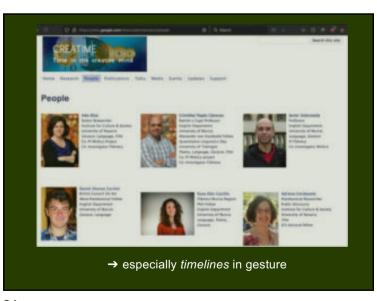
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## Metaphor and gesture: What's new/current?

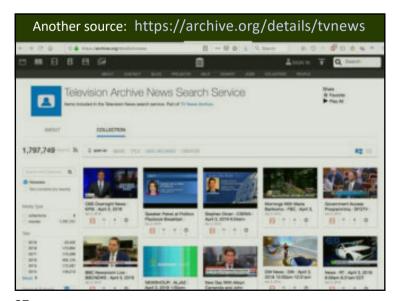
- Research on temporal metaphor in gesture
  - Santiago et al. (2007), "Time (also) flies from left to right"
  - Brown (2012), "Time and space in Tzeltal: Is the future uphill?"
  - Casasanto & Jasmin (2012), "The hands of time: Temporal gestures in English speakers"
  - Jamalian & Tversky (2012), "Gestures alter thinking about time"
  - Cooperrider & Núñez (2013), "Across time, across the body: Transversal temporal gestures"
  - Walker & Cooperrider (2016), "The continuity of metaphor: Evidence from temporal gestures"
  - Li (2017), "Time on hands: Deliberate and spontaneous temporal gestures by speakers of Mandarin"
  - Gu (2018), Chinese hands of time (PhD thesis, Tilburg U.)
  - Winter & Duffy (2020), "Can co-speech gestures alone carry the mental time line?"



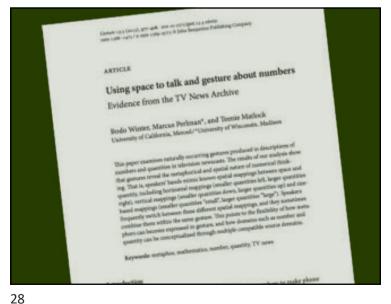
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phor ar \_\_\_\_ure:
 t's new/current?

• Res \_\_estures about DISCOURSE

- Bressem & willer (2014

Palm Up Open Hand (PUOH)

Ring Cyclic gesture







Metaphor and gesture:
What's new/current?

• Applications:

- Political discourse

- Business discourse, entrepreneurs, management

- Therapeutic discourse

## Metaphor and gesture: What's new/current?

• Applications:

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- Political discourse
- Business discourse, entrepreneurs, management
- Therapeutic discourse
- Human-computer interaction



### Metaphor and gesture: What's new/current?

- Important issues: the variable attention to metaphor by speakers and listeners/viewers (Di Biase-Dyson & Egg 2020)
  - Meta-communicative awareness (Cienki 2020) to differing degrees in
    - speech production (tuning devices [Cameron & Deignan 2003]; Goatly 1997])
    - gesture production (use of space, dynamism, gaze [Cienki & Mittelberg 2003; Müller 2008b])
    - signals of different degrees of awareness of others' use of metaphor, heard in speech and/or seen in gesture

### Metaphor and gesture: What's new/current?

- Important issues: whose metaphors we are talking about? (Cienki 2020)
  - the Speaker's?
  - the Listener's? (the Attender's [Clark 1996])
  - the Researcher's? (an after-the-fact attender)

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#### Metaphor and gesture: What's new/current?

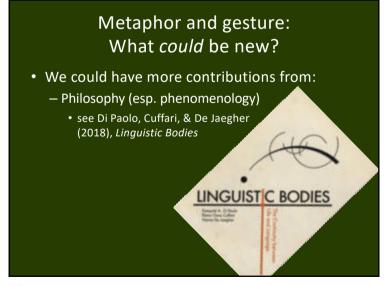
- Important issues: *gradability* of metaphoricity (Cienki 2020; Müller 2008a, 2008b) in terms of
  - the conventionality of a mapping in a culture (LIFE IS A JOURNEY versus LIFE IS A BANANA)
  - the degree of cognitive activation of a mapping in the given moment
  - the conventionality of a metaphoric expression in a culture

('<u>follow</u> your dreams' versus 'don't <u>trip over</u> your inhibitions')

#### Metaphor and gesture: What *could* be new?

- We could have more contributions from:
  - cultural anthropology, ethnographic methods
  - little is known about gesture use in most parts of the world beyond North America and Europe
    - Africa (Northern, Sub-Saharan)
    - Asia (Western, Central, Northern, Eastern, Southern)
    - South America
    - Indigenous languages around the world

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#### Metaphor and gesture: What *could* be new?

- We could have more contributions from:
  - cultural anthropology, ethnographic methods
  - revealing background knowledge of cultural models
    - Calbris (1990) on etymologies in gesture
    - Danesi (1995) on"conceptual fluency" in the metaphors used in a given culture (re: learning a second language)

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### Metaphor and gesture: What *could* be new?

- We could have more contributions from:
  - Artistic research (including movement studies)



# Conclusions – What is highlighted by studying metaphor in gesture?

you still learn something from that about how another group of people sees the world and how difficult it is to translate that so neatly into your own language



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"The essence of metaphor is understanding and experiencing one kind of thing in terms of another"

(Lakoff & Johnson 1980: 5)

"metaphorizing as embodied interactivity involves experiencing and understanding one realm of experience in terms of another" (Müller 2019: 76)

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# Conclusions – What is highlighted by studying metaphor in gesture?

- The important role of metonymy (synecdoche) in visual metaphor
- The prevalence of ontological metaphor in gesture (and thus in thought, on some level) (Chui 2017; Cienki 2003)
- The dynamic nature of metaphoric expression/ interpretation and metaphoric thinking
- Gesture is a semiotic system where the normative constraints on form-meaning correspondences are in many ways less fixed than they are in spoken language
  - Note the complexity of researching meaning-expression in such a system!

