

OVERVIEW OF NOTION CONVENTIONS FOR NOTATION OF FORM IN GESTURES

APPENDIX TO THE ARTICLE

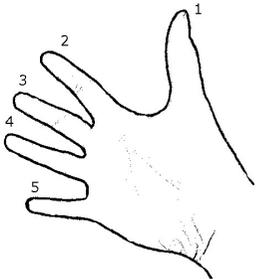
„A LINGUISTIC PERSPECTIVE ON THE NOTATION OF FORM FEATURES IN GESTURES“ IN: MÜLLER, CORNELIA, ALAN CIENKI, ELLEN FRICKE, SILVA H. LADEWIG, DAVID MCNEILL AND SEDINHA TEBENDORF (EDS.), *BODY – LANGUAGE – COMMUNICATION / KÖRPER – SPRACHE – KOMMUNIKATION. VOL. 1. HANDBÜCHER ZUR SPRACH- UND KOM-MUNIKATIONSWISSENSCHAFT / HANDBOOKS OF LINGUISTICS AND COMMUNICATION SCIENCE.* (HSK 38.1). BERLIN, NEW YORK: MOUTON DE GRUYTER.

1.1. form clusters for hand configuration

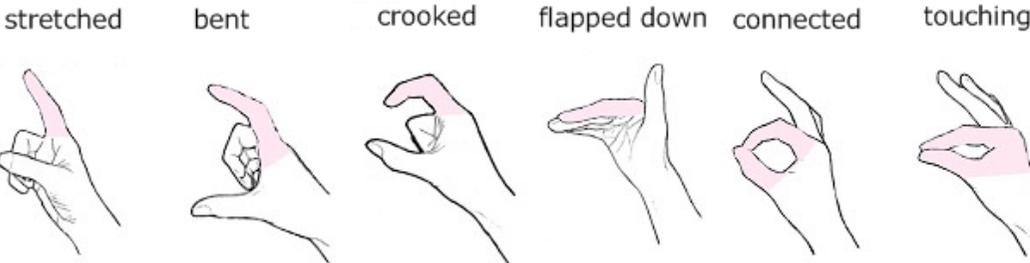
- 1. "Fist"
- 2. "Flat hand"
- 3. "Single fingers"
- 4. "Combinations of fingers"



1.2. numbering of fingers



1.3. shape of digits



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1.4. overview of hand configurations

1. flat hand					
Flat hand	Lax flat hand	Spread flat hand	Flat hand 1 facing forward		
					
2. fist					
Fist					
					
3. single fingers					
1 stretched	2 stretched	2 bent	3 stretched	5 stretched	1+2 stretched
					

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3. single fingers							
2+3 stretched	2+5 stretched	1+5 stretched	1-3 stretched	1-4 stretched	2-4 stretched		
							
4. combination of fingers							
1+2 connected	1+3 connected	1+2 crooked		1+2 bent	1-5 crooked	1-5 bent	1-5 spread bent
							
2-5 flapped down	2-5 flapped down 1 stretched	2-5 bent		1-5 touching	1-5 connected	1+2 touching	
							

2. CLASSIFICATION OF PARAMETER „ORIENTATION“

- depending on 1.) palm and 2.) gesture space
- orientation = orientation 1 + orientation 2 (e.g. palm lateral towards center (PLTC))

1. palm

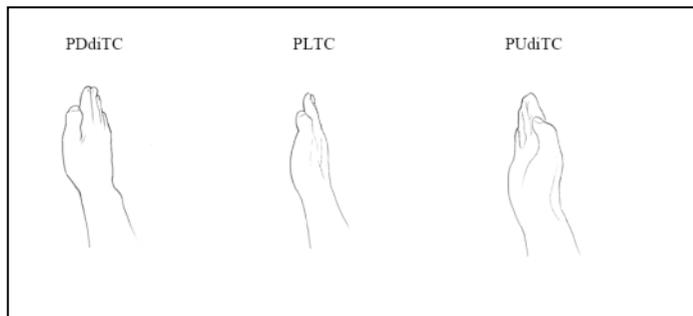
- palm up PU
- palm down PD
- palm lateral PL
- palm vertical PV

- marker „diagonal“ Di

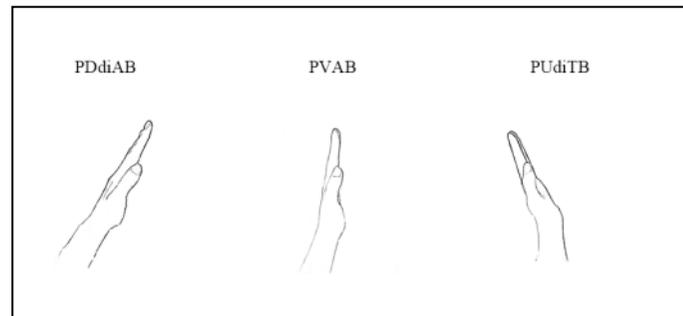
2. gesture space

- towards center TC
- away center AW
- towards body TB
- away body AB

***diagonal orientation in relation to body centre line
(viewed from above)***

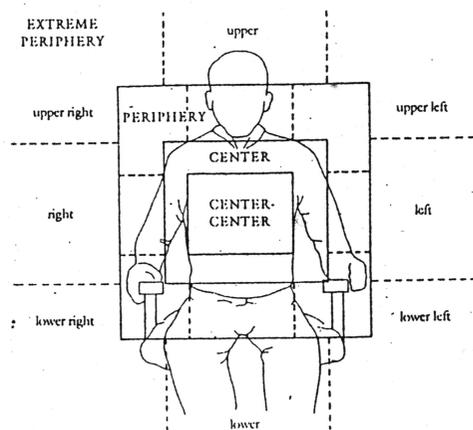


***diagonal orientation in relation to body of speaker
(viewed from the side)***



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3. CLASSIFICATION OF PARAMETER „POSITION“

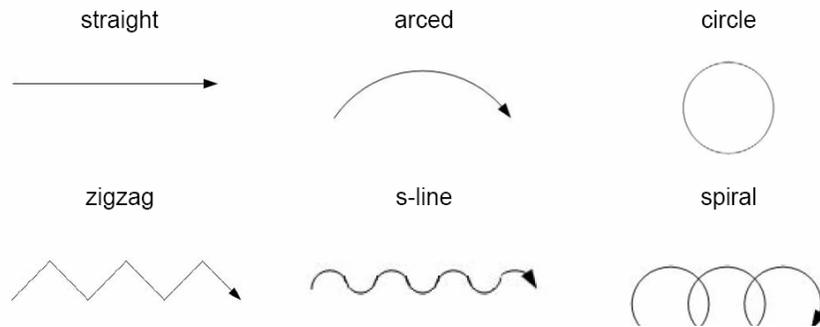


McNeills gesture space (figure taken from McNeill 1992)

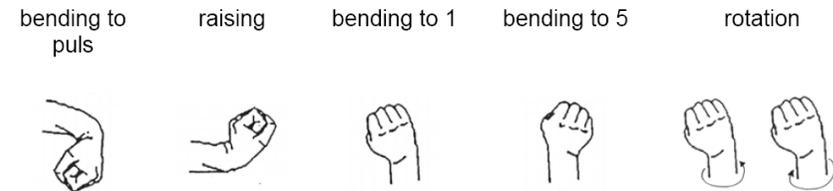
4. CLASSIFICATION OF PARAMETER “MOVEMENT”

4.1. “type of movement”

4.1.1. movements of the arm, shoulder or single fingers

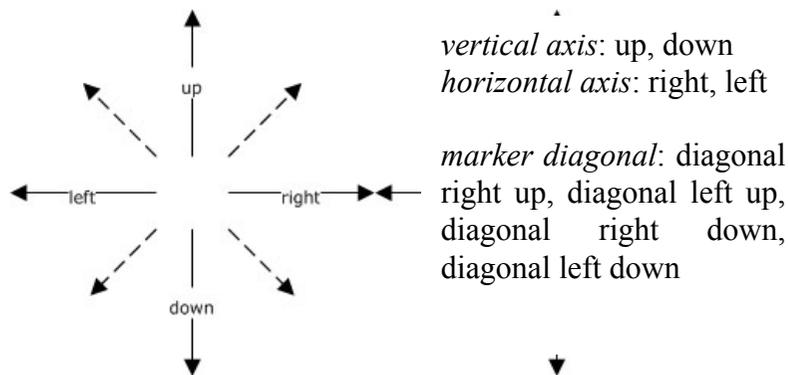


4.1.2. movements of the wrist and single fingers

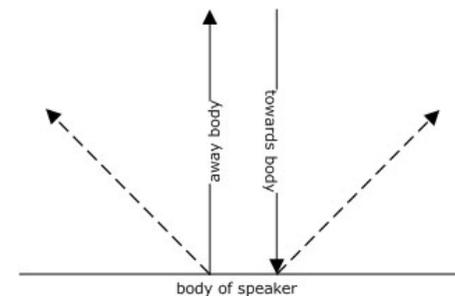


(figures taken from Prillwitz et al. 1989)

4.2.1. movements along the vertical and horizontal axis



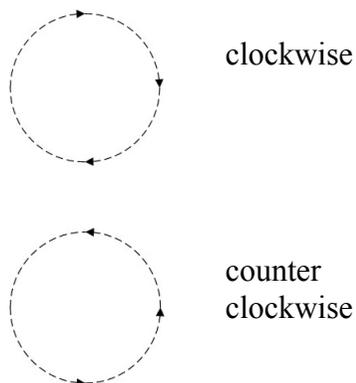
4.2.2. movements along the sagittal axis



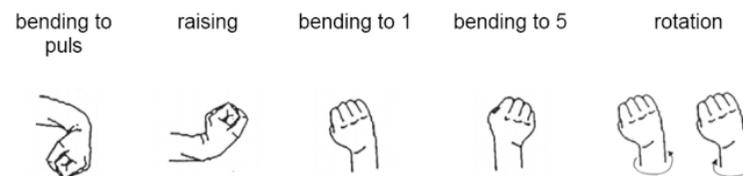
sagittal axis: away body, towards body

marker diagonal: diagonal away body, diagonal towards body

4.3.2. spiral and circular movements



4.2.4. movements of the wrist and single fingers



(figures taken from Prillwitz et al. 1989)

4.3. “character of movement”

1. size of movement

- Reduced
- enlarged

2. speed of motion

- decelerated
- accelerated

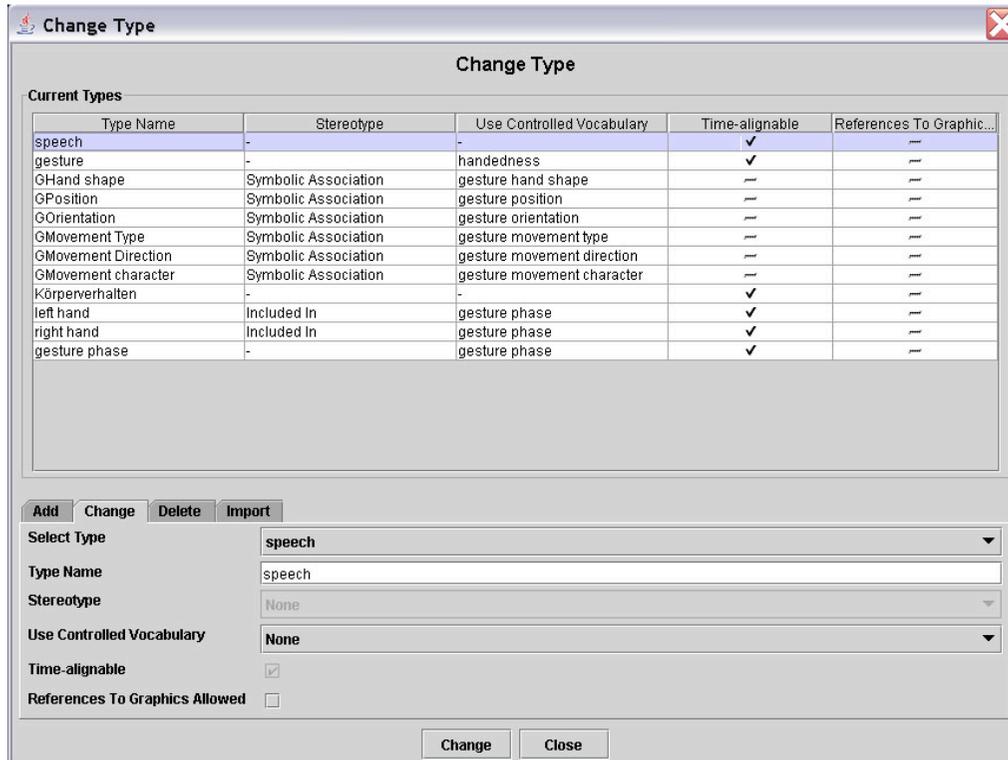
3. flow of movement

- accentuated ending

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5. SET UP OF ELAN FILE

5.1. set up of “linguistic types



linguistic types defined:

gesture	none
gesture phase	none
left hand	included in
right hand	included in
GHand Shape	symbolic association
GPosition	symbolic association
GOrientation	symbolic association
GMovement Type	symbolic association
GMovement Direction	symbolic association
GMovement character	symbolic association

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5.3. overview of tier dependencies

Change Tier Attributes

Change Tier Attributes

Current Tiers

Tier Name	Parent Tier	Linguistic Type	Participant	Default Language
01-speech1	-		01	Deutsch (Deutschland)
01-speech2	-	speech	01	Deutsch (Deutschland)
01-GHandedness	-	gesture	01	Deutsch (Deutschland)
01-left hand	01-GHandedness	left hand	01	Deutsch (Deutschland)
01-IH-Gesture Phase	01-left hand	left hand	01	Deutsch (Deutschland)
01-IH-GHand shape	01-IH-Gesture Phase	GHand shape	01	Deutsch (Deutschland)
01-IH-GOrientation	01-IH-Gesture Phase	GOrientation	01	Deutsch (Deutschland)
01-IH-GPosition	01-IH-Gesture Phase	GPosition	01	Deutsch (Deutschland)
01-IH-GMovement Type	01-IH-Gesture Phase	GMovement Type	01	Deutsch (Deutschland)
01-IH-GMovement Direction	01-IH-Gesture Phase	GMovement Direction	01	Deutsch (Deutschland)
01-IH-GMovement character	01-IH-Gesture Phase	GMovement character	01	Deutsch (Deutschland)
01-right hand	01-GHandedness	right hand	01	Deutsch (Deutschland)
01-rH-Gesture Phase	01-right hand	left hand	01	Deutsch (Deutschland)
01-rH-GHand shape	01-rH-Gesture Phase	GHand shape	01	Deutsch (Deutschland)
01-rH-GOrientation	01-rH-Gesture Phase	GOrientation	01	Deutsch (Deutschland)
01-rH-GPosition	01-rH-Gesture Phase	GPosition	01	Deutsch (Deutschland)
01-rH-GMovement Type	01-rH-Gesture Phase	GMovement Type	01	Deutsch (Deutschland)
01-rH-GMovement Direction	01-rH-Gesture Phase	GMovement Direction	01	Deutsch (Deutschland)
01-rH-GMovement character	01-rH-Gesture Phase	GMovement character	01	Deutsch (Deutschland)

Add **Change** **Delete** **Import**

Select Tier 01-speech1

Tier Name 01-rH-GMovement character

Participant 01

Parent Tier 01-rH-Gesture Phase

Linguistic Type GMovement character

Default Language Deutsch (Deutschland)

Change **Close**

Tier Dependencies

- 01-speech1
- 01-speech2
- 01-GHandedness
 - 01-left hand
 - 01-IH-Gesture Phase
 - 01-IH-GHand shape
 - 01-IH-GOrientation
 - 01-IH-GPosition
 - 01-IH-GMovement Type
 - 01-IH-GMovement Direction
 - 01-IH-GMovement character
 - 01-right hand
 - 01-rH-Gesture Phase
 - 01-rH-GHand shape
 - 01-rH-GOrientation
 - 01-rH-GPosition
 - 01-rH-GMovement Type
 - 01-rH-GMovement Direction
 - 01-rH-GMovement character

5.4. ordering of tiers in ELAN window

The screenshot shows the ELAN interface with a timeline from 00:00 to 00:03. The 'gesture Pha' tier is highlighted with a red box and labeled as the 'parent tier'. Below it, several child tiers are listed, including '01-IH-GHa', '01-IH-GOri', '01-IH-GPo', '01-IH-GMo', and '01-IH-GMo', which are collectively labeled as the 'child tier (referring tier)'. The child tiers contain various form features like 'lax fl', 'PD', 'ccm', 'strai', 'right', and 'acce'.

5.5. example of controlled vocabulary “orientation” in ELAN window

The screenshot shows the ELAN interface with a timeline from 00:00 to 00:03. A drop-down box is open, displaying a list of orientation-related terms: PD, PD FD, PB, PLTB, PLAB, PLTC, right, and acce. The drop-down box is labeled as 'drop down box with controlled vocabulary'. The background shows the same tier structure as in 5.4, with 'gesture Pha' as the parent tier and various child tiers below it.

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5.6. example of controlled vocabulary

