

Comparing the incomparable

Michael Cysouw

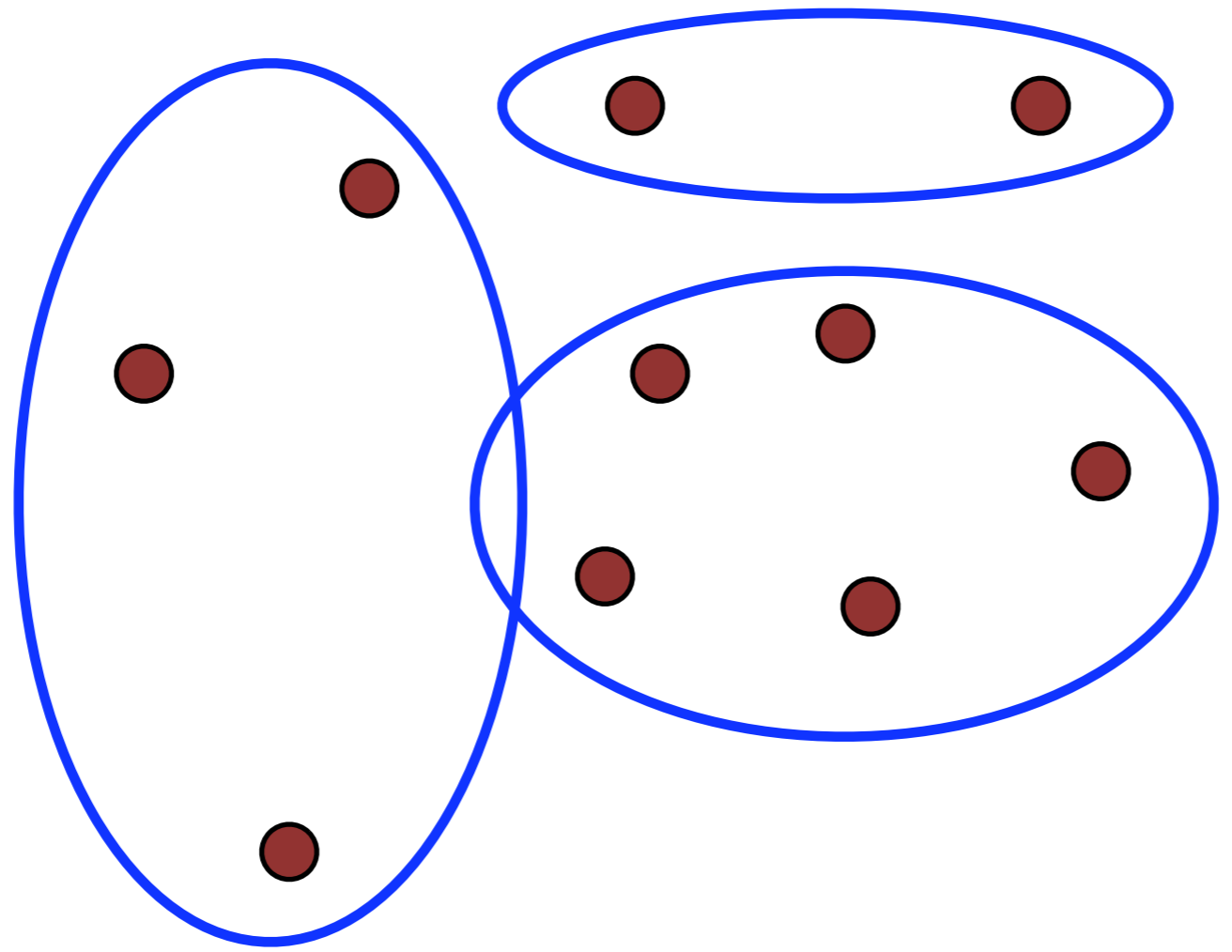
*Max Planck Institute for Evolutionary Anthropology
Meeting Forschergruppe 'Verbale Argumente'*

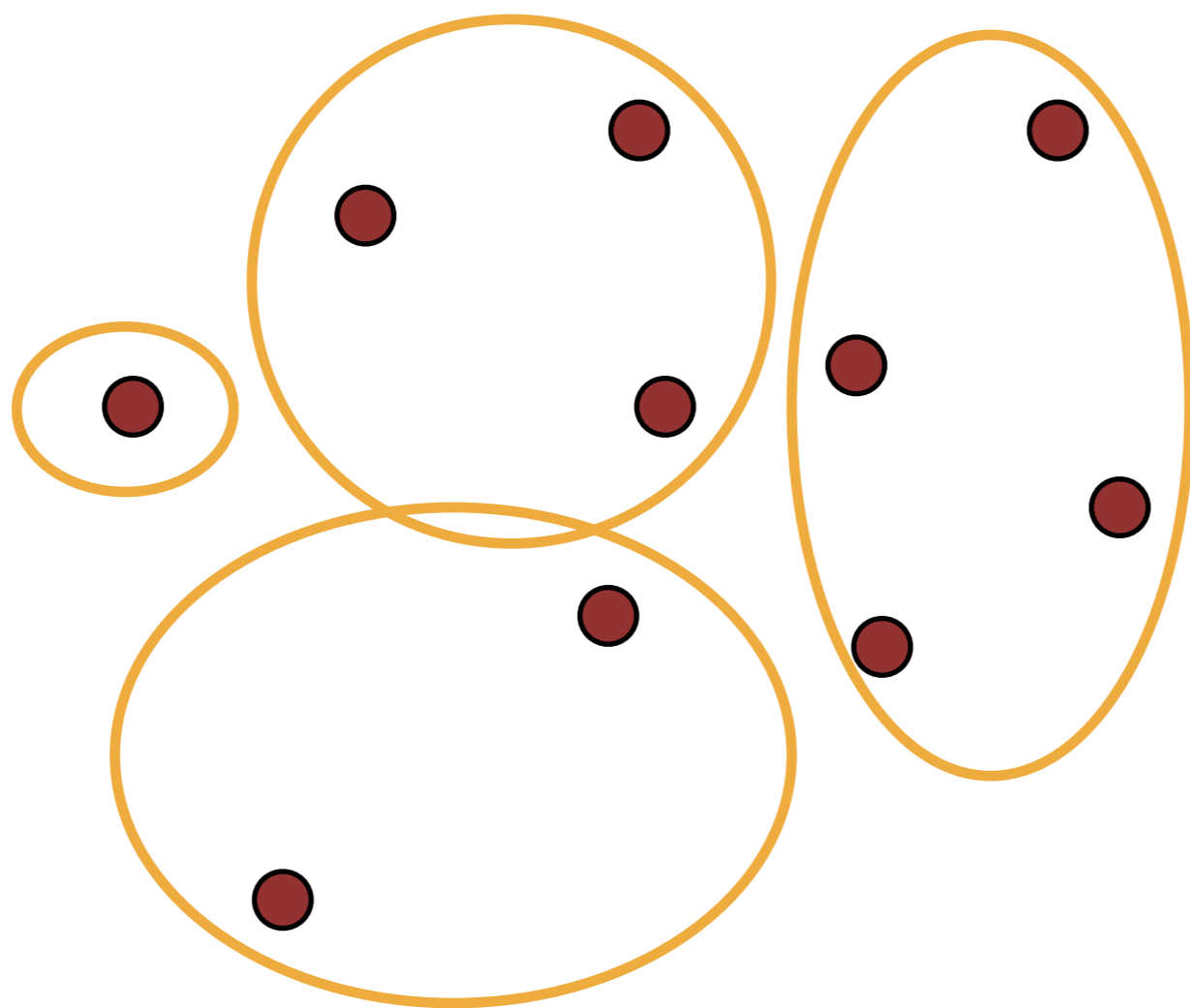
	Nias	Wappo	Maasai
S intransitive predicate	mutated	-i	lowered tone
A transitive predicate	unmutated	-i	lowered tone
P transitive predicate	mutated	∅	lexical tone
citation form	unmutated	∅	lexical tone
vocative	?	∅	lexical tone
S nominal predication	mutated	∅	lowered tone
Predicate nominal predication	unmutated	∅	lexical tone
S existential clause	mutated	-i	?
S locational clause	mutated	-i	lowered tone
comparee	mutated	-i	?
base of comparison	unmutated	∅	?
S in Topic/Focus	unmutated	-i	lexical tone
attributive possessor	mutated	genitive	?
predicative possessor	mutated	-i	?
predicative possessee	mutated	∅	?
S in subordinate clause	?	∅	lowered tone
causer	unmutated	-i	lexical tone
other valence increase	mutated	?	lexical tone
S of passive/antipassive	unmutated	-i	lexical tone
base of inflection	?	∅	?
base of compounding	?	∅	?

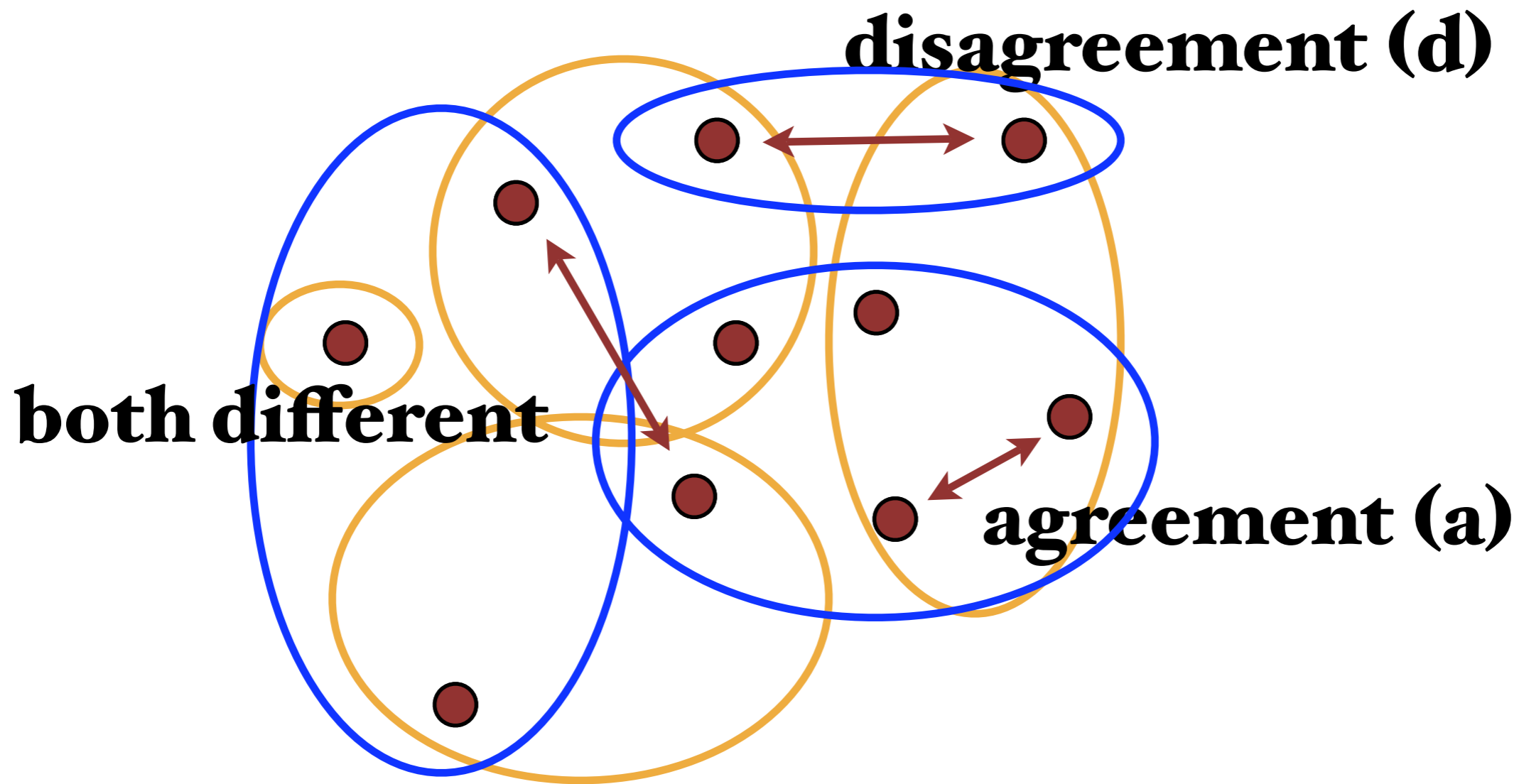
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Comparing languages

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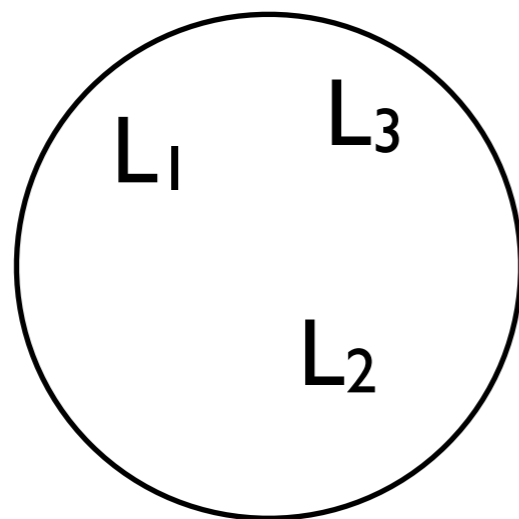
Jaccard distance:

$$d/a+d$$

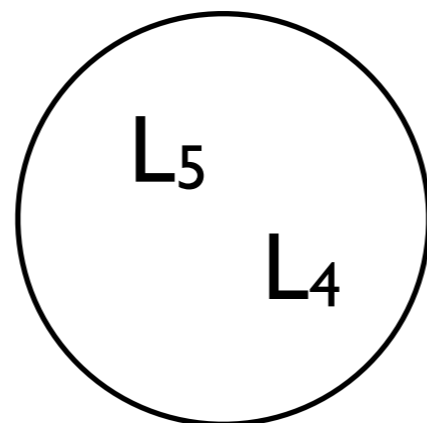
Typology without Types

	Nias	Wappo	Diegueño	Mojave	Maidu	Aymara	Maasai	Turkana	Dinka	K'abeena
Nias	0	74	71	76	79	82	63	76	80	73
Wappo	74	0	47	62	79	75	73	72	75	66
Diegueño	71	47	0	38	89	83	50	83	67	82
Mojave	76	62	38	0	75	70	69	85	0	78
Maidu	79	79	89	75	0	0	67	83	75	54
Aymara	82	75	83	70	0	0	57	75	67	57
Maasai	63	73	50	69	67	57	0	75	0	65
Turkana	76	72	83	85	83	75	75	0	33	70
Dinka	80	75	67	0	75	67	0	33	0	75
K'abeena	73	66	82	78	54	57	65	70	75	0

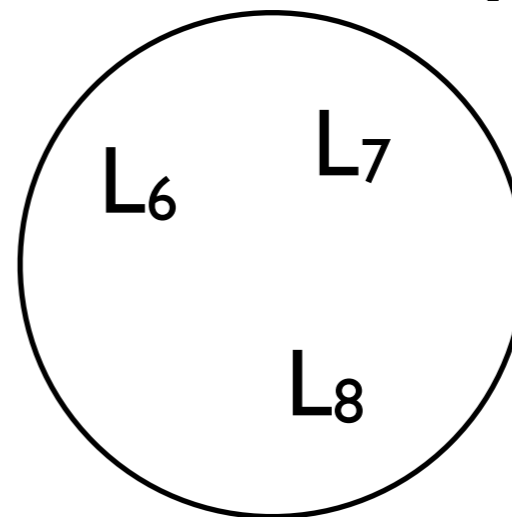
Type A



Type B



Type C



Type A

Type B

Type C

	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	...
L ₁	0	0	0	1	1	1	1	1	
L ₂	0	0	0	1	1	1	1	1	
L ₃	0	0	0	1	1	1	1	1	
L ₄	1	1	1	0	0	1	1	1	
L ₅	1	1	1	0	0	1	1	1	
L ₆	1	1	1	1	1	0	0	0	
L ₇	1	1	1	1	1	0	0	0	
L ₈	1	1	1	1	1	0	0	0	
...									

Undifferentiated Typology

Type A

Type B

Type C

	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	...
L ₁	0	0	0	0.37	0.37	0.28	0.28	0.28	
L ₂	0	0	0	0.37	0.37	0.28	0.28	0.28	
L ₃	0	0	0	0.37	0.37	0.28	0.28	0.28	
L ₄	0.37	0.37	0.37	0	0	0.58	0.58	0.58	
L ₅	0.37	0.37	0.37	0	0	0.58	0.58	0.58	
L ₆	0.28	0.28	0.28	0.58	0.58	0	0	0	
L ₇	0.28	0.28	0.28	0.58	0.58	0	0	0	
L ₈	0.28	0.28	0.28	0.58	0.58	0	0	0	
...									

Differentiated Typology

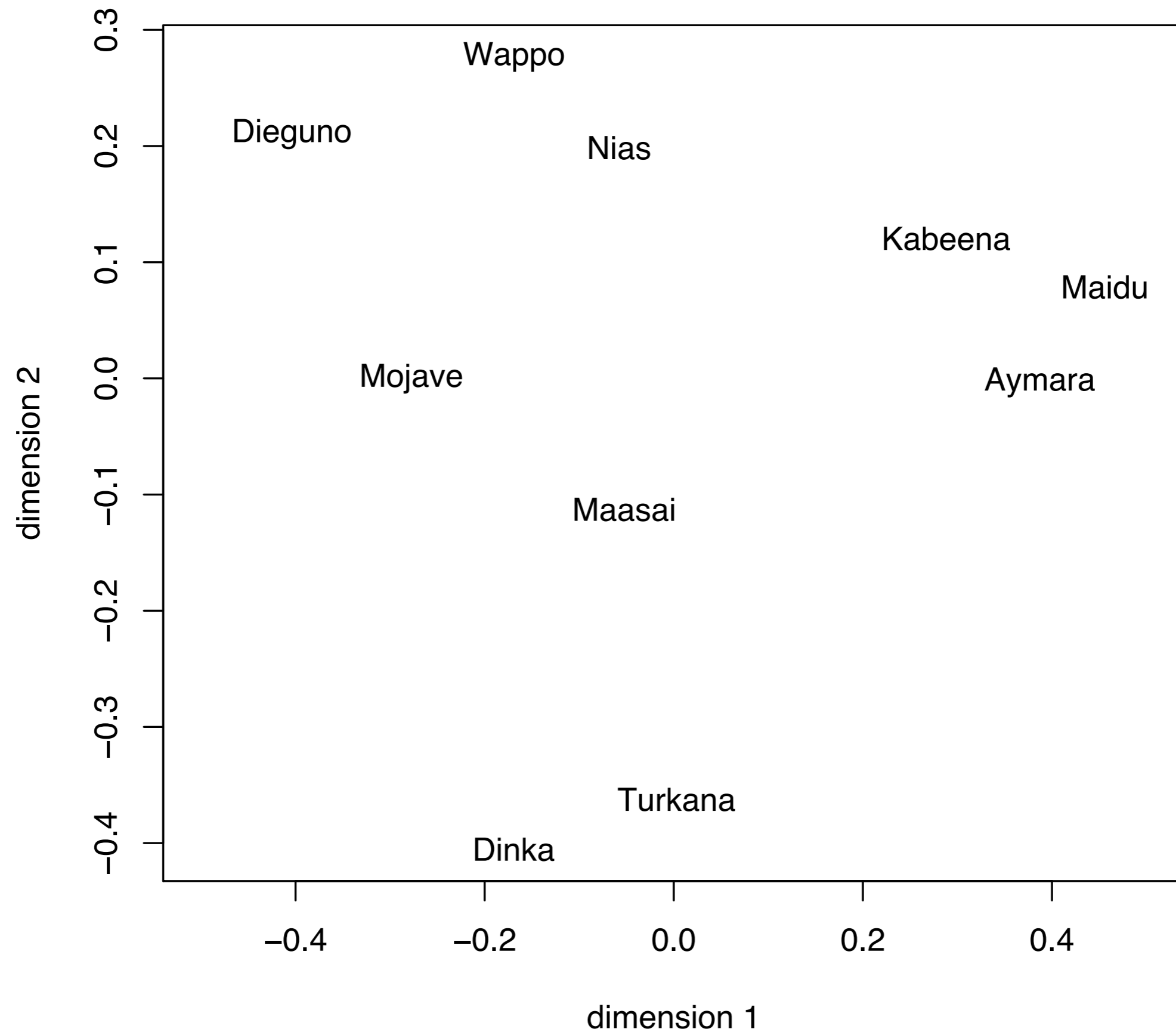
	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	...
L ₁	0	0.55	0.72	0.31	0.70	0.61	0.50	0.58	
L ₂	0.55	0	0.55	0.31	0.40	0.44	0.31	0.48	
L ₃	0.72	0.55	0	0.29	0.53	0.51	0.48	0.60	
L ₄	0.31	0.31	0.29	0	0.38	0.36	0.26	0.27	
L ₅	0.70	0.40	0.53	0.38	0	0.64	0.51	0.46	
L ₆	0.61	0.44	0.51	0.36	0.64	0	0.57	0.43	
L ₇	0.50	0.31	0.48	0.26	0.51	0.57	0	0.47	
L ₈	0.58	0.48	0.60	0.27	0.46	0.43	0.47	0	
...									

‘Deconstructed’ Typology, or: Typology without Types

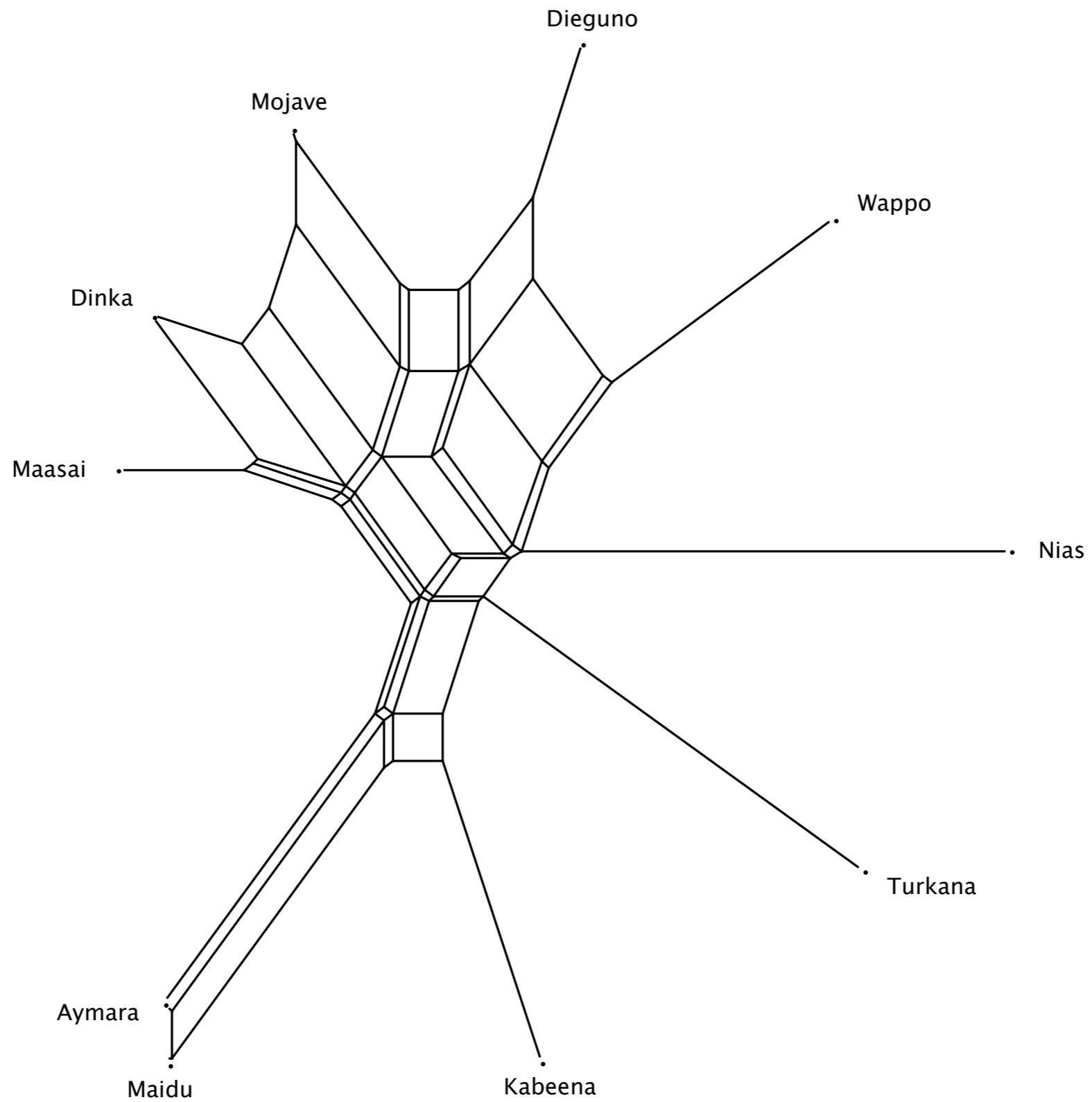
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Investigating the structure of the typology



Investigating the structure of the typology



Comparing contexts

