

Managing Linguistic Complexity

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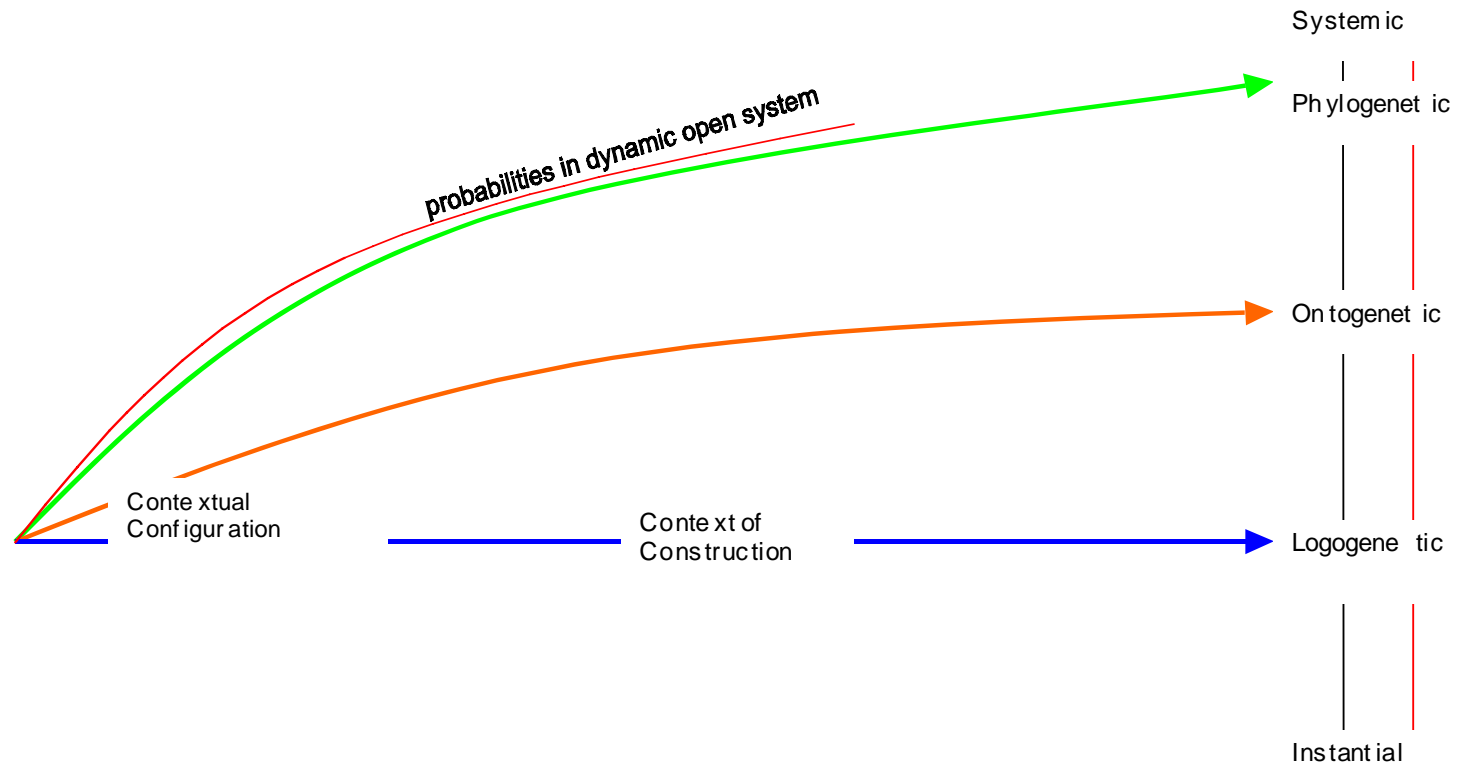
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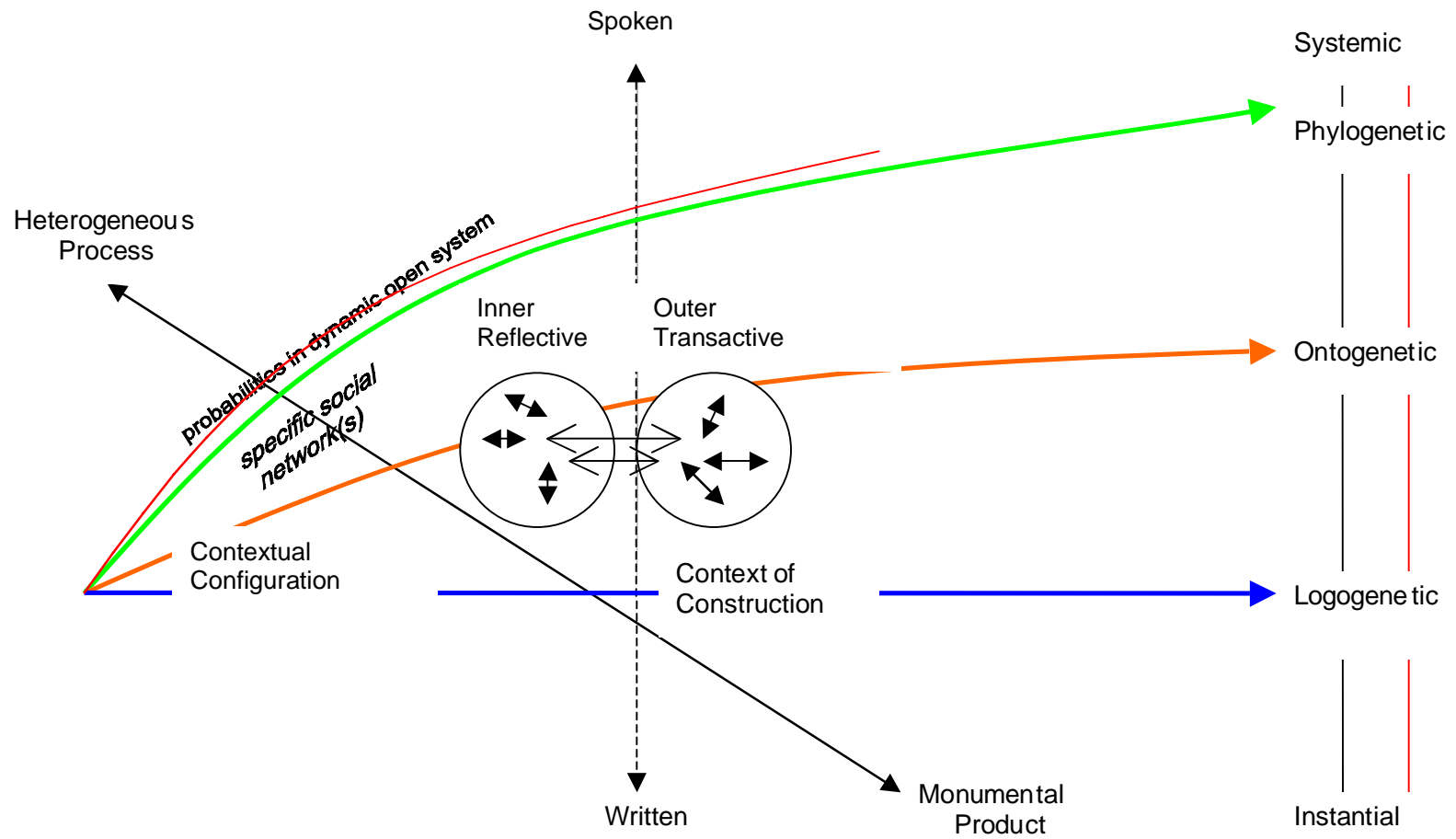
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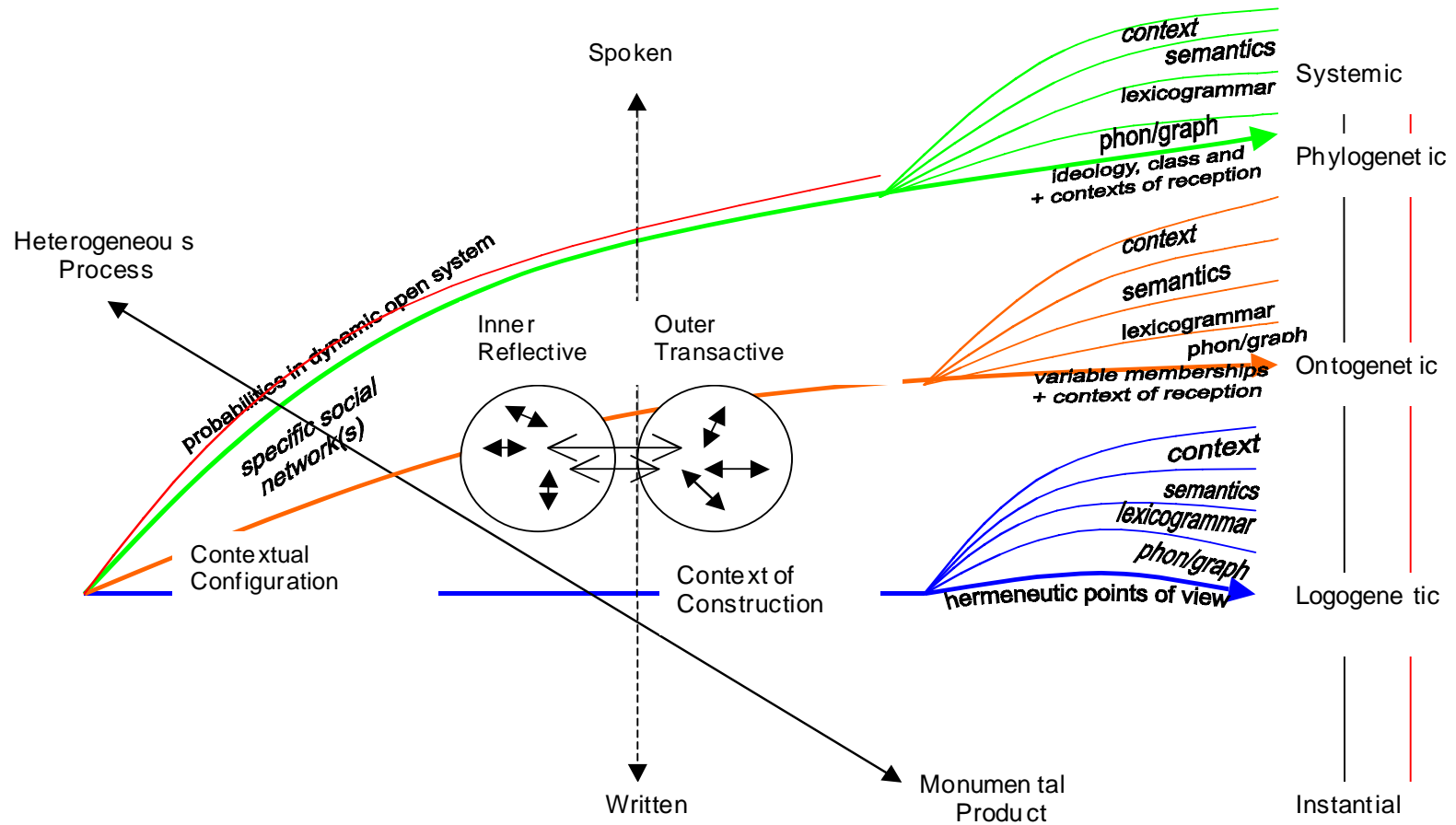
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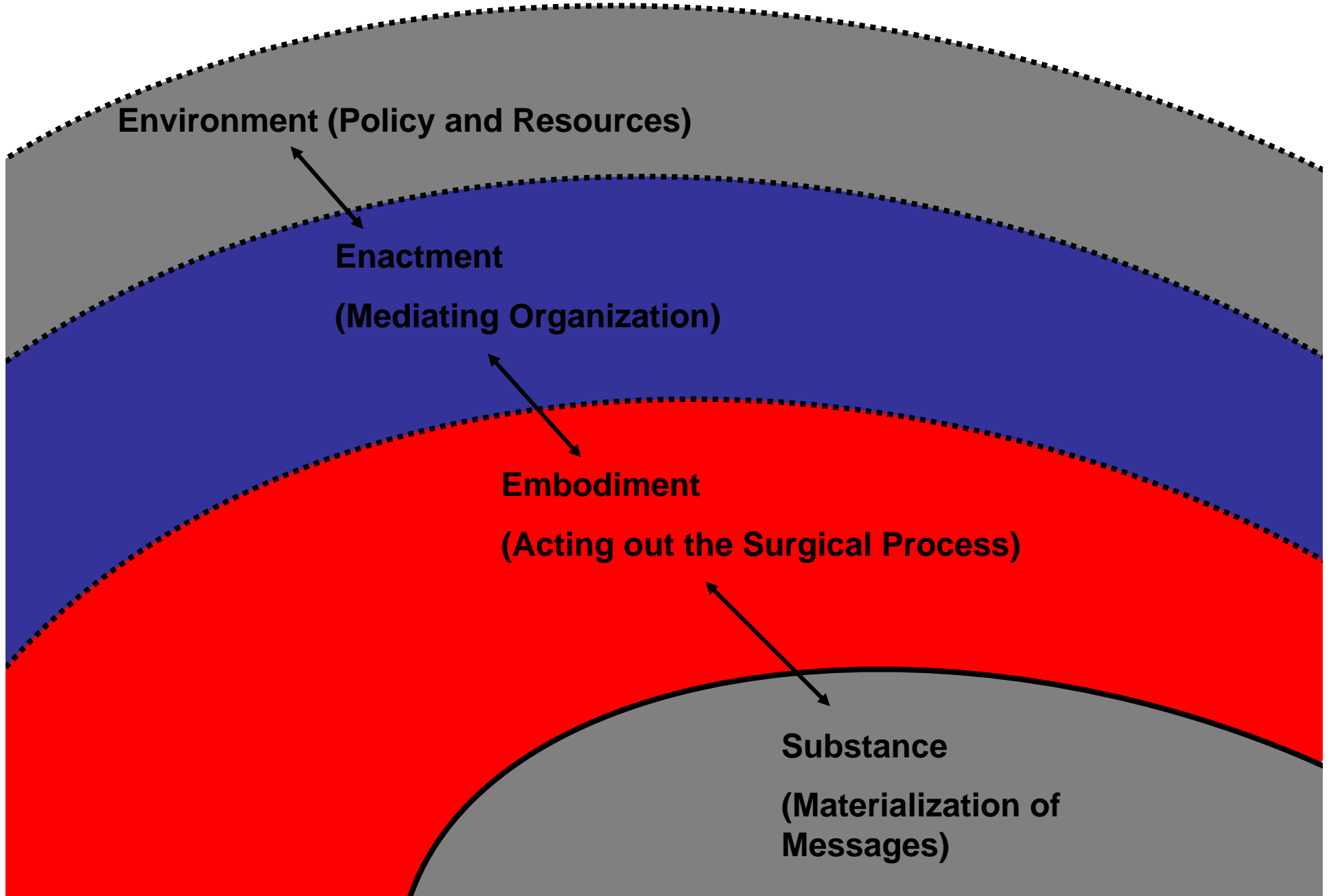
Every text is a pulse of semantic energy on three simultaneous trajectories



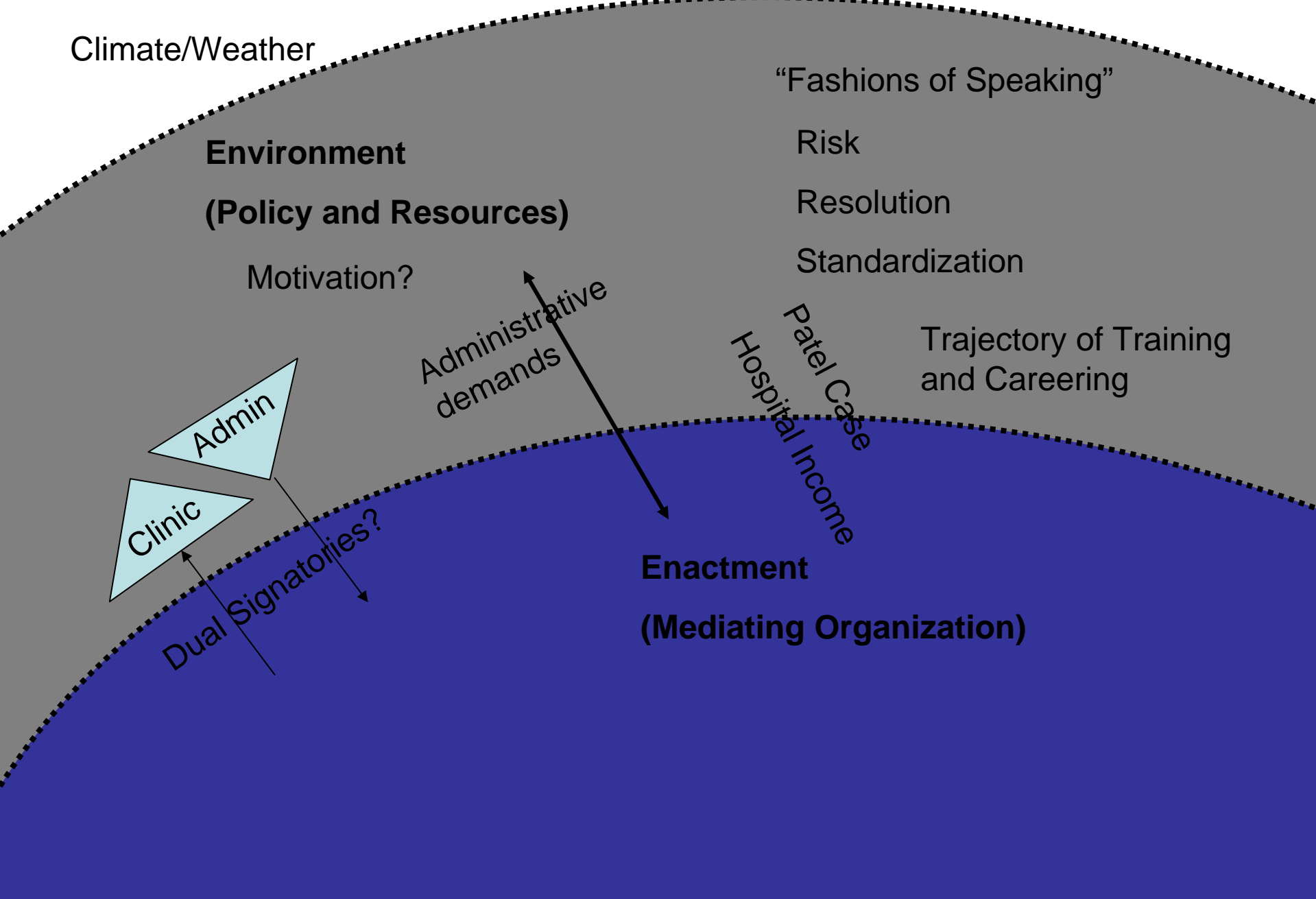




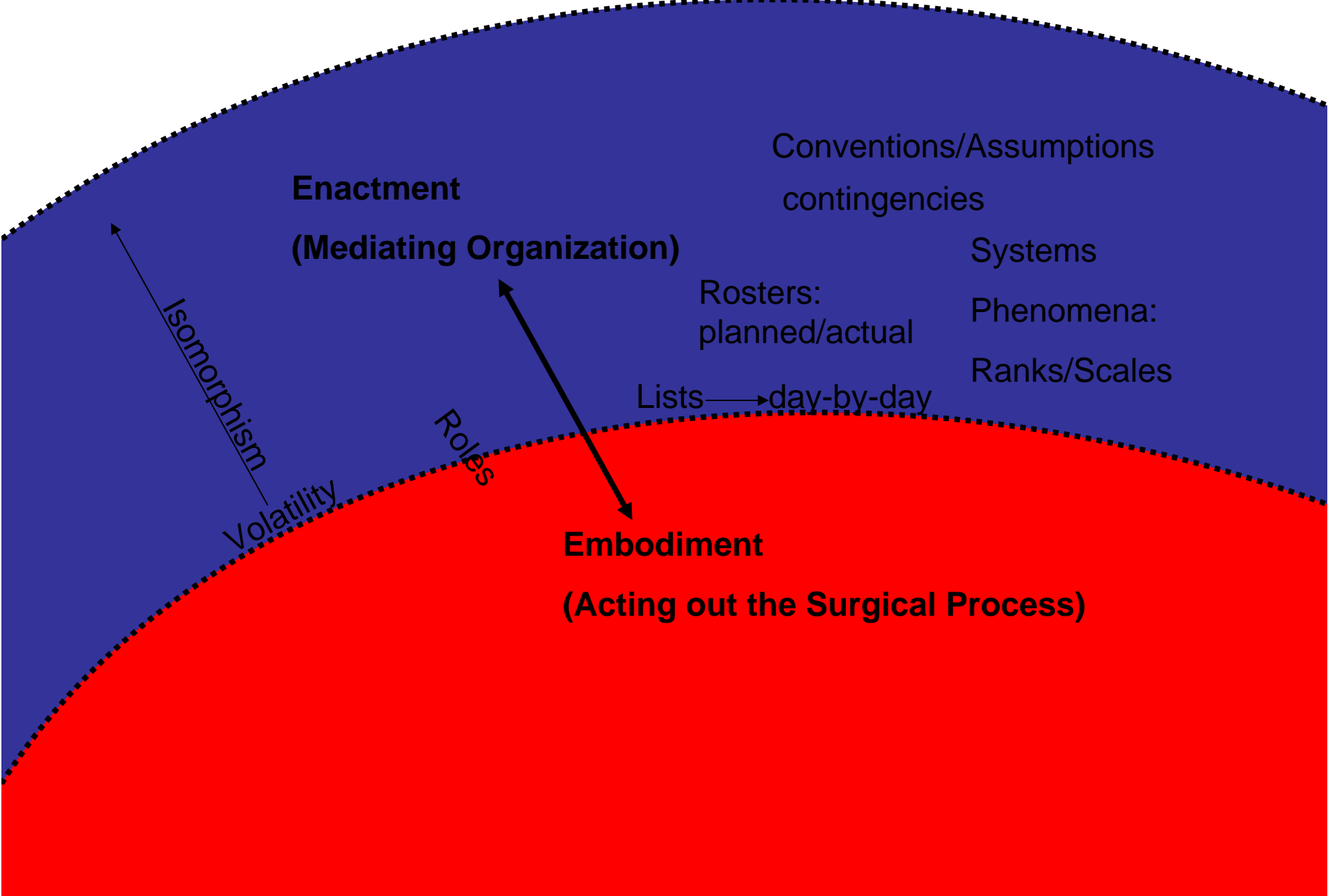
Stratification of Surgical 'Culture'



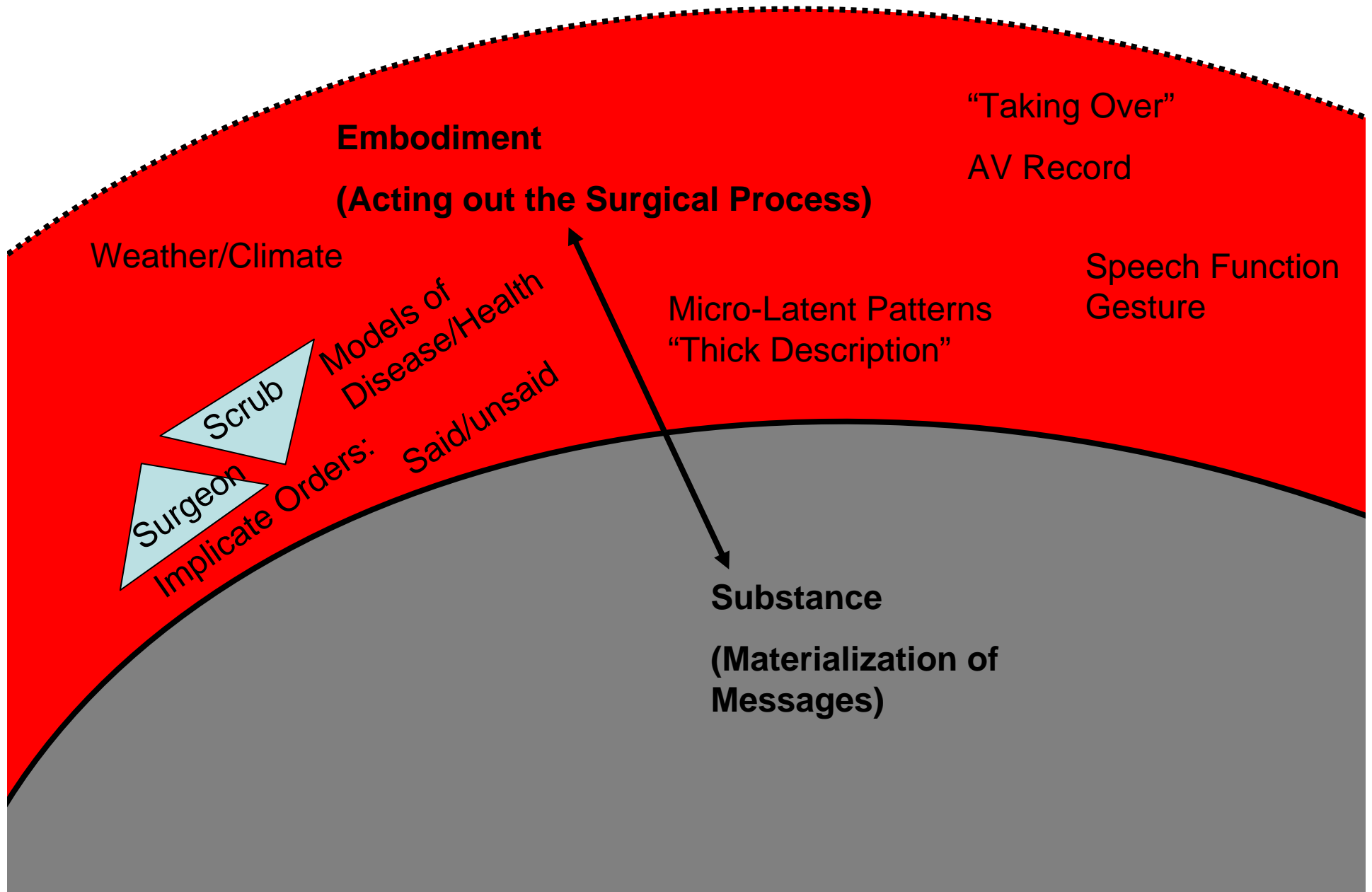
Stratification of Surgical 'Culture'



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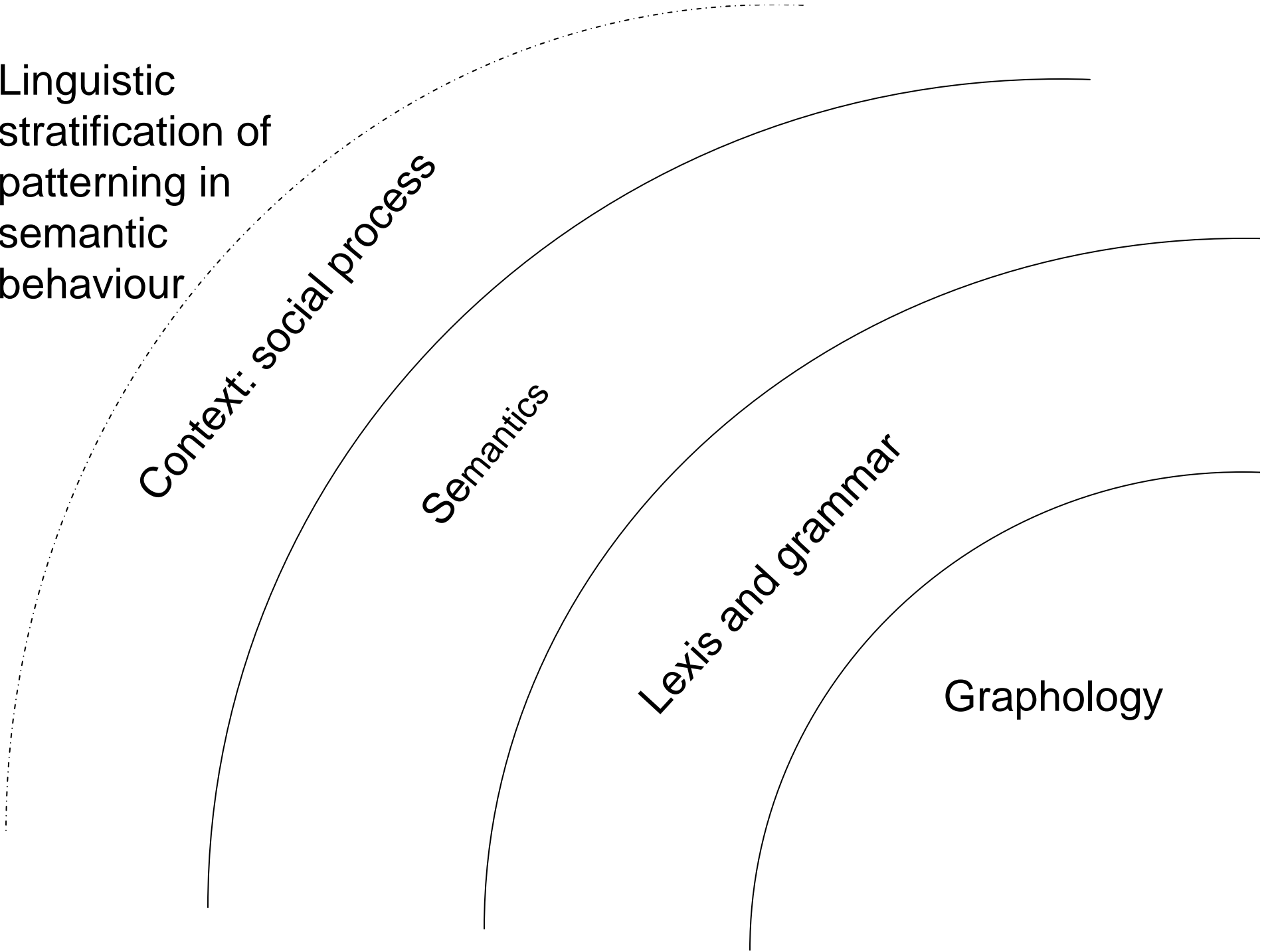
Linguistic
stratification of
patterning in
semantic
behaviour

Context: social process

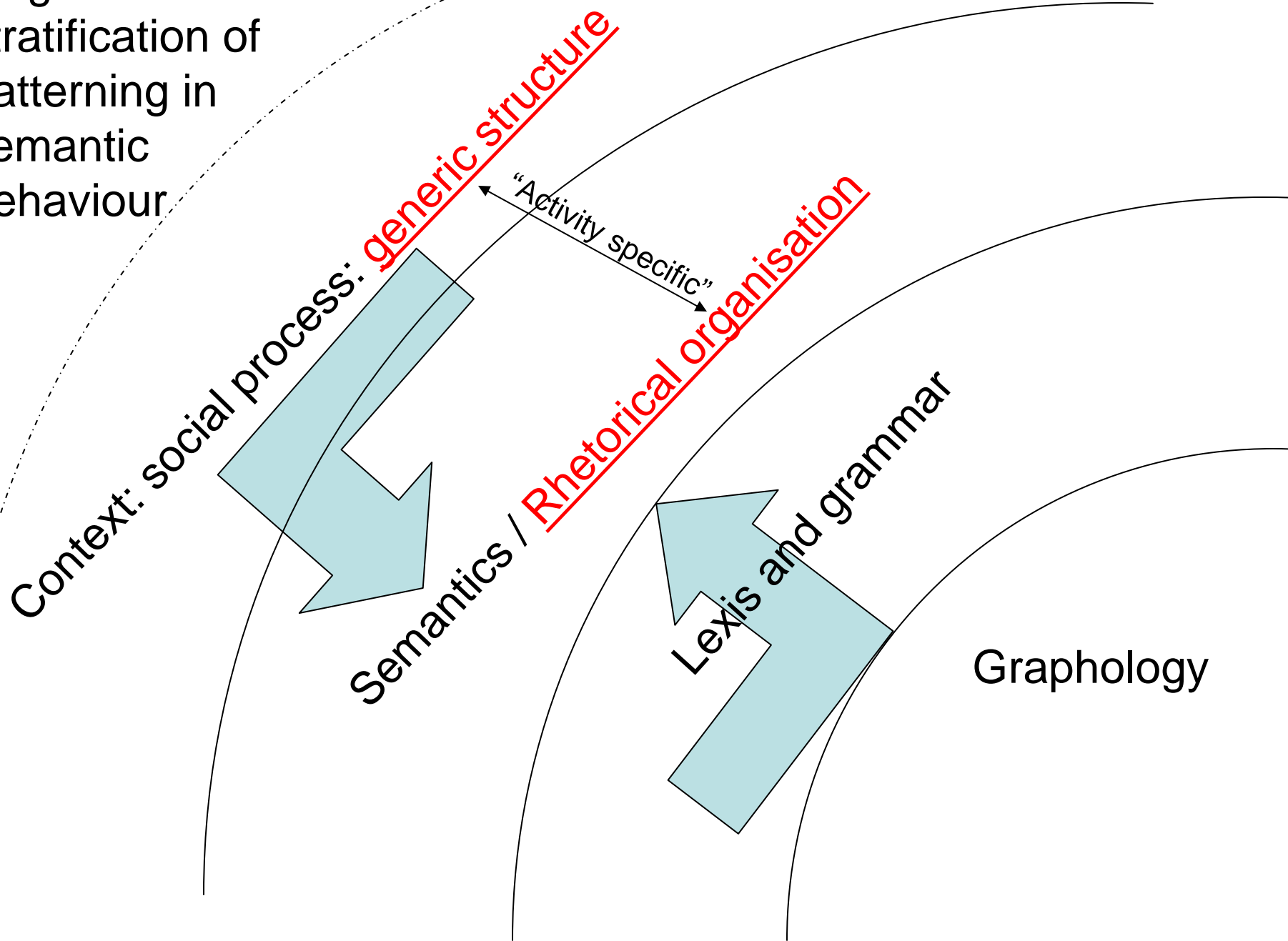
Semantics

Lexis and grammar

Graphology

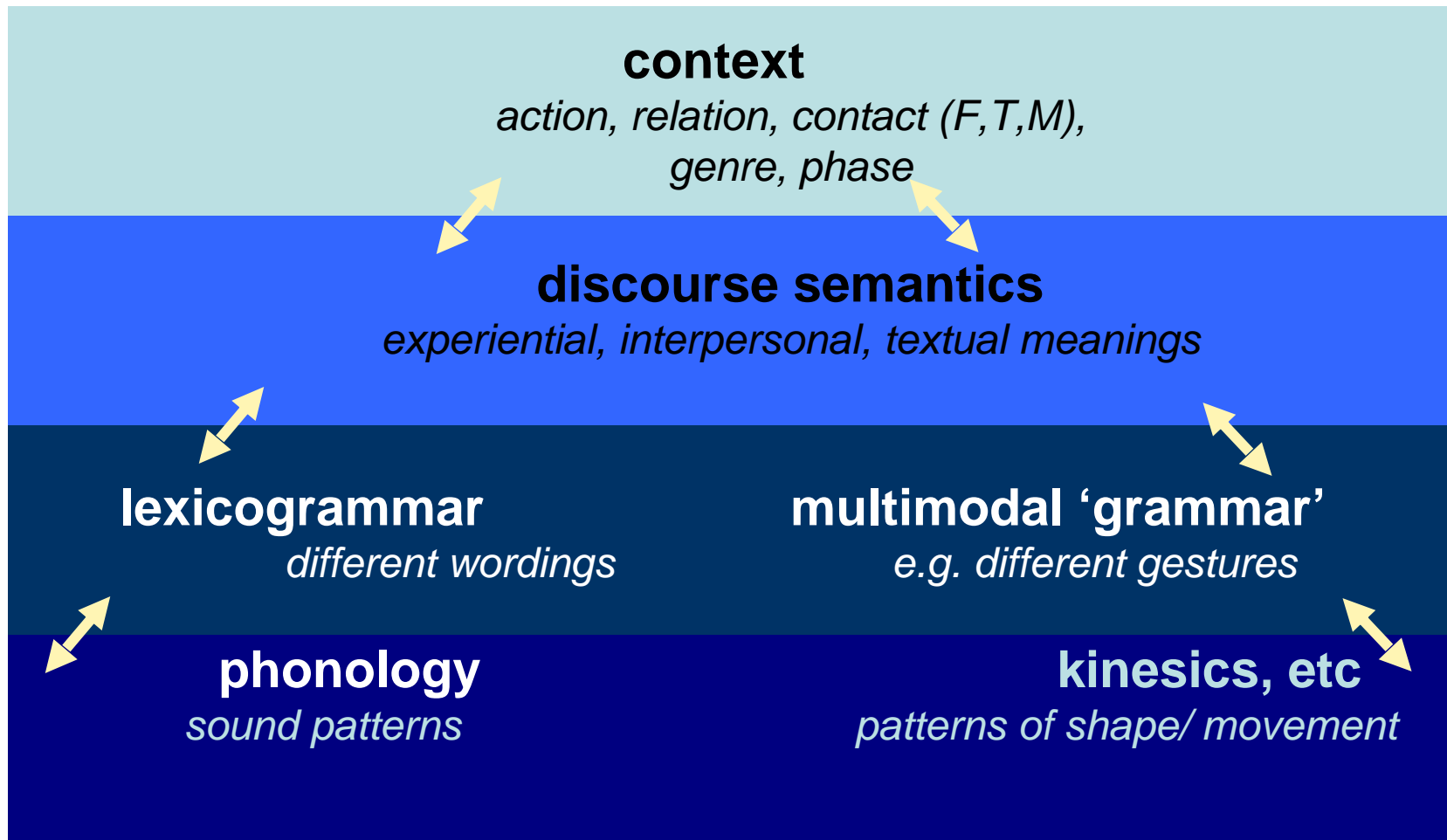


Linguistic stratification of patterning in semantic behaviour



How is responsibility construed

- in what context?
- by whom, to whom?
- using what resources?



Realizational systems

Characteristics:

- stratification
 - each stratum *realizes* the one above
 - each stratum *is realized by* the one below
- the strata are not isomorphic, i.e.
 - there is potential for recombination of features across strata, and
 - recombination creates new meaning potential

Realizational systems

Significance:

- ubiquitous
 - examples from work at CLSL include various aspects of health care provision, residential care, finance, media, security, education
- public investigations and controversy
 - parametric architectures within which we make day-by-day, little (but consequential) decisions about the conditions of living

Realizational systems

Comparison with more typical models:

- causation needs to be reconceptualized
- there is dependency (not causation) between strata
- multiple sources of variation and change
- change may be driven by non-conscious, unconscious or conscious action
- the artificial impression of **teleology**

Realizational systems

‘teleological illusion’

- produced by retrospective interpretations of complexity
- longstanding problem in literature studies
- parallel problem in biological evolution
- a new order of human control within the non-directed patterns of biology
- evolutionary psychology, post-modernism, etc. *versus* Boltzmann

Realizational systems

A multidimensional model of value

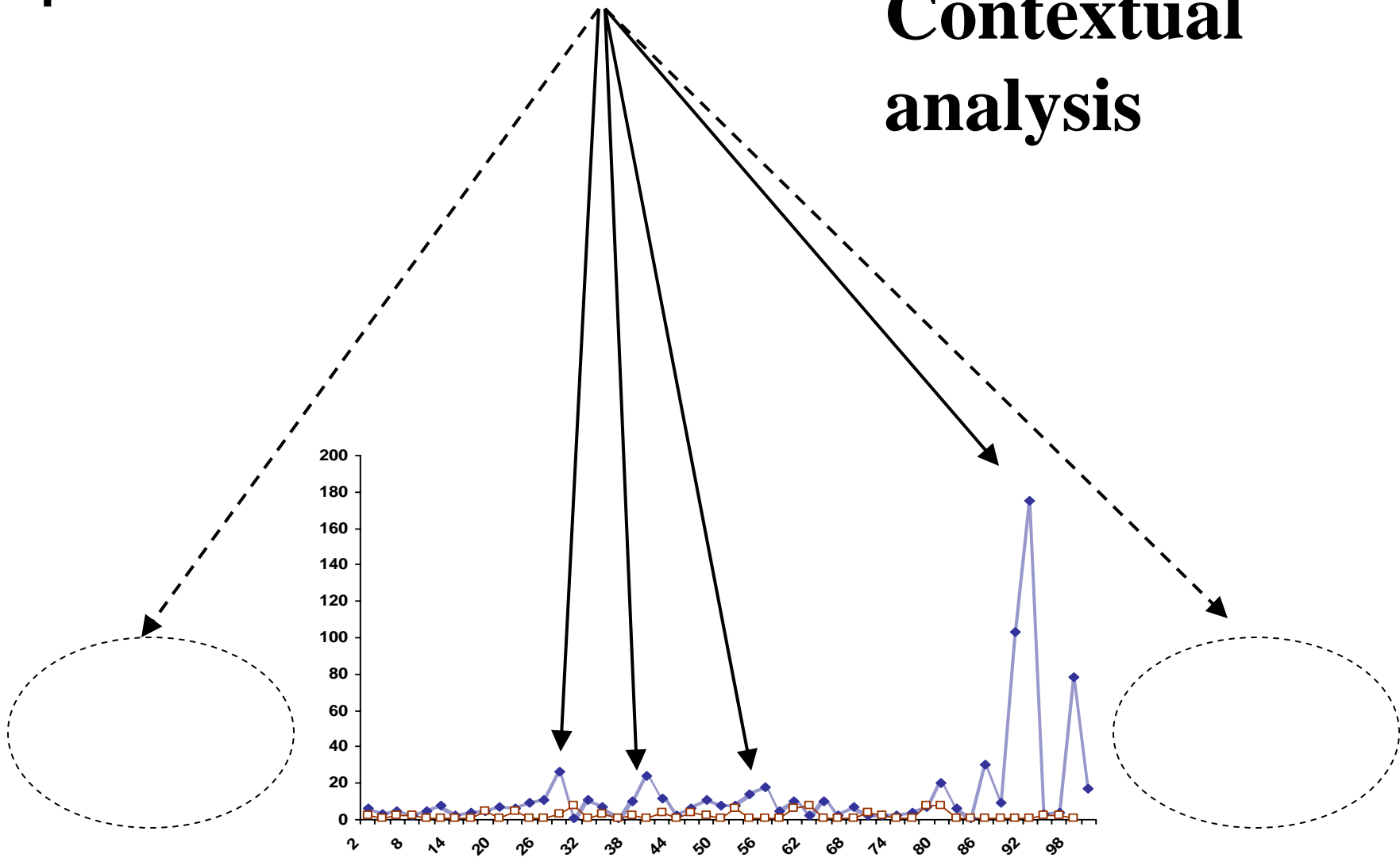
- semantics and lexicogrammar **in context**
- stratification: codings of codings
- relativity to the observer
- ‘metastability’
- vectors of semiotic change
- analogy with genetic recombination
- moral and democratic responsibility: **data**

?

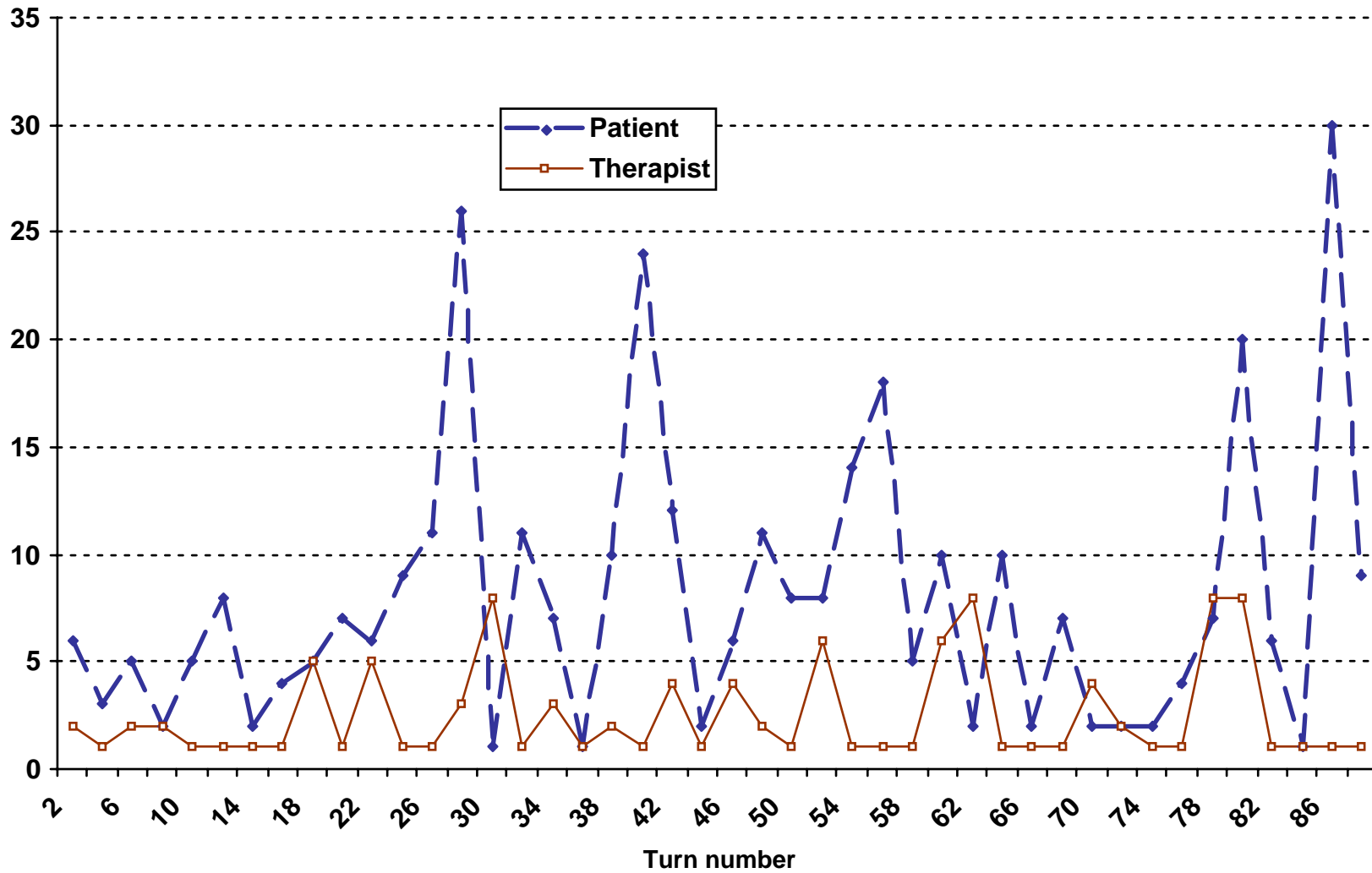
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Generic structure

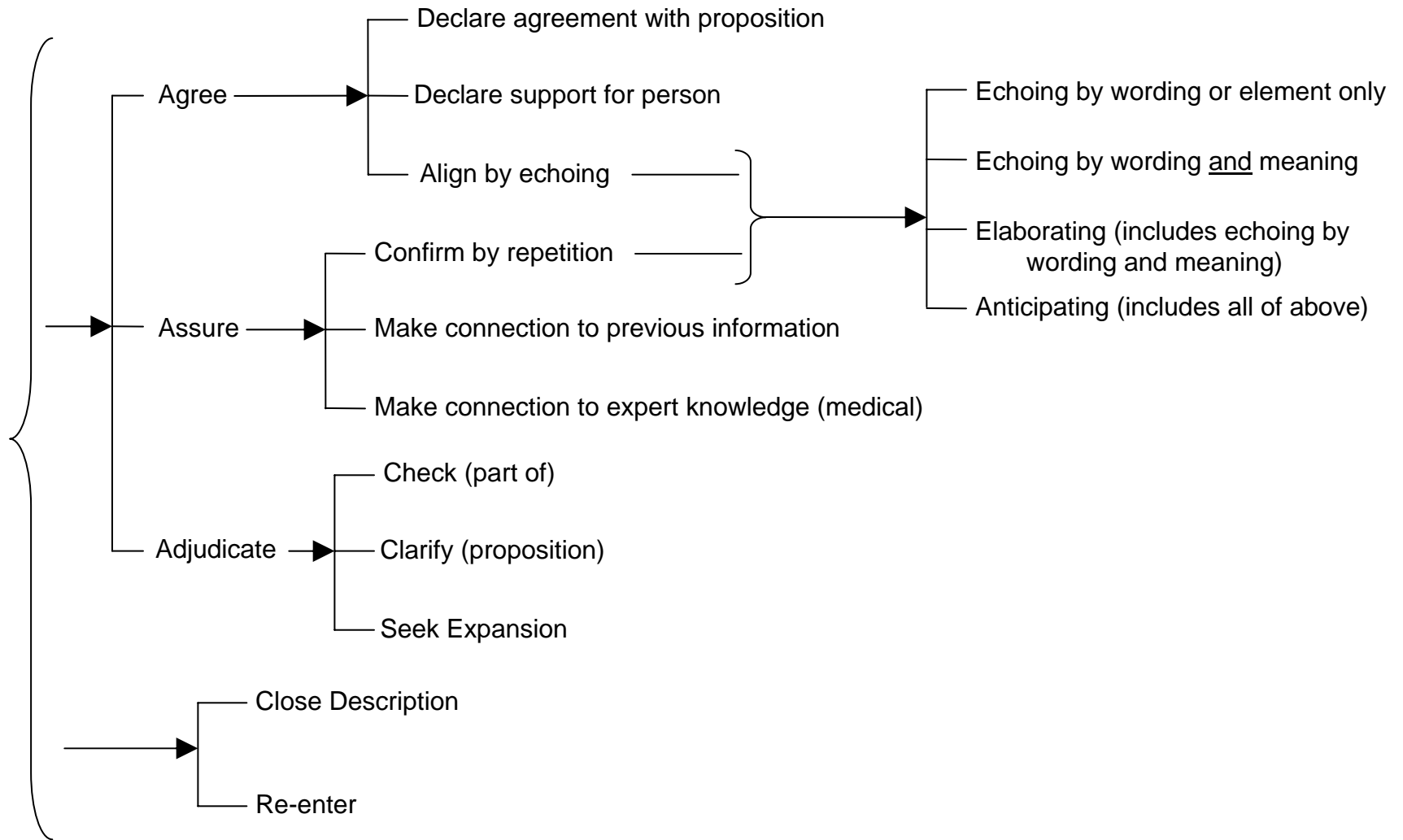
**Contextual
analysis**



Semantics of turn-taking



Techniques of Semantic Solidarity



Instantial weight

1 Status/ depth	Primary	Hypotactic	Hypot ²	Rankshifted	β in r/shifted	R/s in R/s
	5	4	3	2	1	0
2 Finiteness	Tense	Modality	Non-finite Pred	Nominalized	Minor	Exclam/ Voc
	5	4	3	2	1	0
3 Process	Material	Behavioural	Verbal	Mental	Existential	Relational
	5	4	3	2	1	0
4 Voice	Middle + Domain (Circ/Range)	Middle	Effective (Operative)	Eff (Receptive) + Agent	Eff/Rec -Agent	-Voice
	5	4	3	2	1	0

Instantial weight (continued)



5 Agent/ Role	X Acts (Med/Actor)	X acts on Y (Agent/Actor)	X is acted upon (Med/Goal)	X is Domain (Range like)	X is Circ (Circ/Inst)	Experiential occluded
	5	4	3	2	1	0



6 Subject	X is Subject	Complement	Predicator	Adjunct	Vocative	Occluded
	5	4	3	2	1	0



7 Theme	Marked as Theme: Complement	Adjunct	Predicator	3 rd Person	1 st /2 nd	
	5	4	3	2	1	0

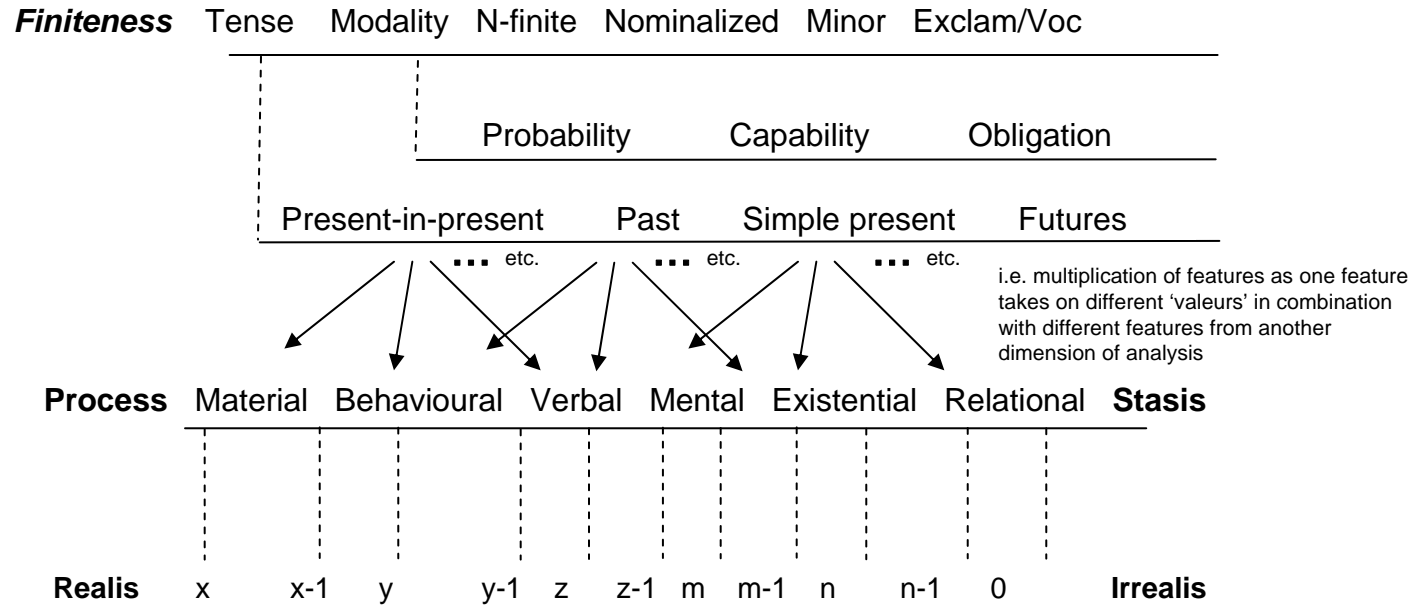


8 News	Marked News (Theme)	News Only	Non-final	Marked Final (eg Pred)	Final Unmarked	Theme only
	5	4	3	2	1	0



9 Person	Realized as 1 st	As 2 nd	As 3 rd (particular)	As 3 rd (homo- phoric)	General Thing/Stuff	No reference
	5	4	3	2	1	0

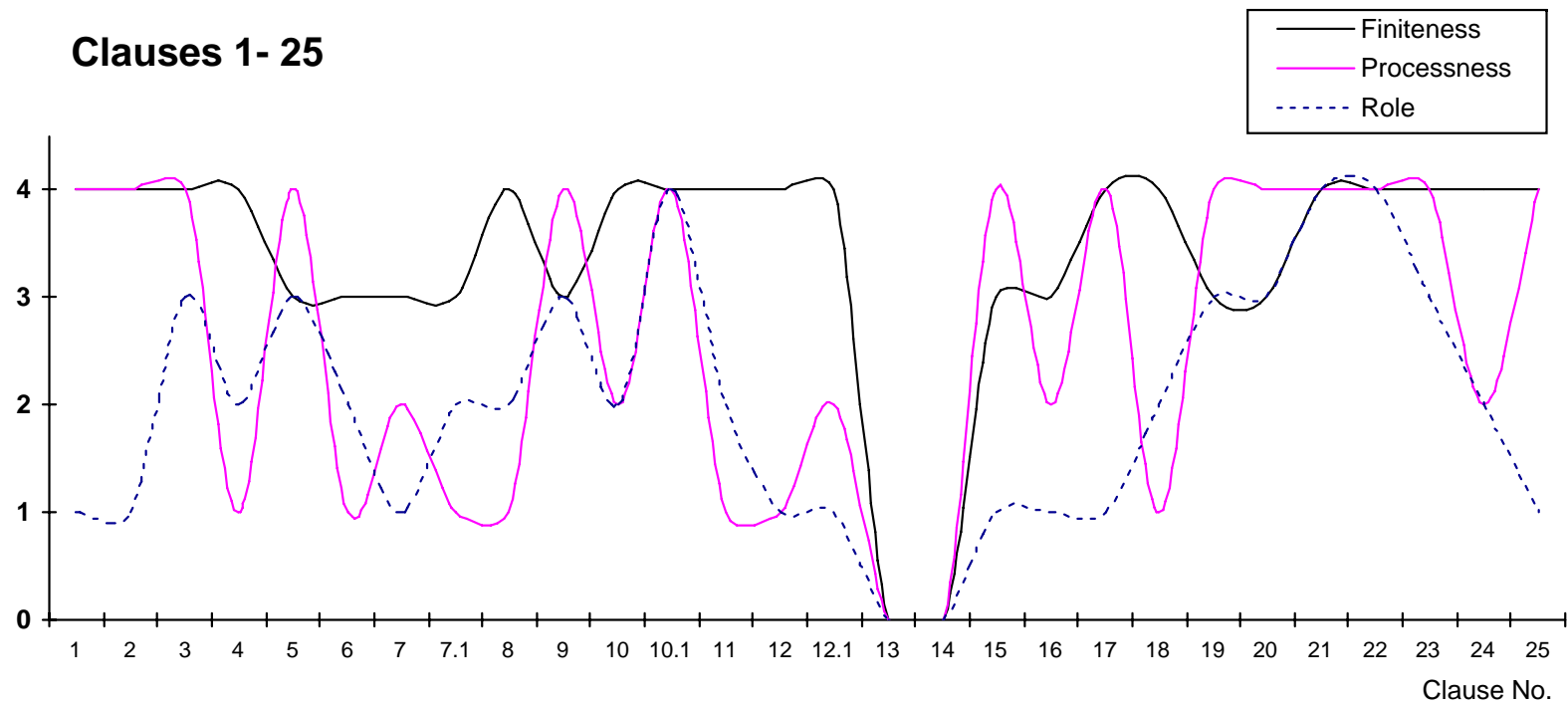
Expansion of instancial weight



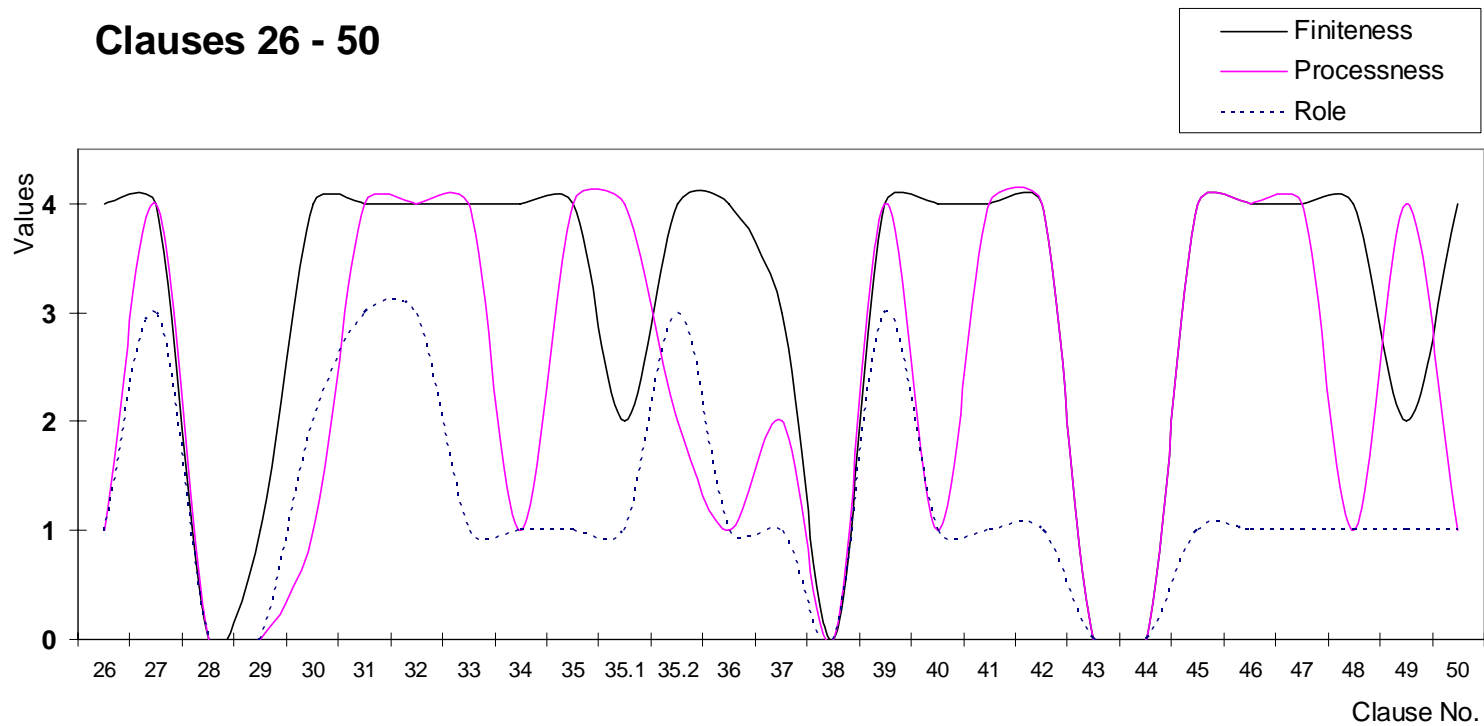
Instantial weight

1 Status/ depth	Primary	Hypotactic	Hypot ²	Rankshifted	β in r/shifted	R/s in R/s
↓	5	4	3	2	1	0
2 Finiteness	Tense	Modality	Non-finite Pred	Nominalized	Minor	Exclam/ Voc
↓	5	4	3	2	1	0
3 Process	Material	Behavioural	Verbal	Mental	Existential	Relational
↓	5	4	3	2	1	0
4 Voice	Middle + Domain (Circ/Range)	Middle	Effective (Operative)	Eff (Receptive) + Agent	Eff/Rec -Agent	-Voice
↘	5	4	3	2	1	0
5 Agent/ Role	X Acts (Med/Actor)	X acts on Y (Agent/Actor)	X is acted upon (Med/Goal)	X is Domain (Range like)	X is Circum (Circ/Inst)	Experiential occluded
↓	5	4	3	2	1	0
6 Subject	X is Subject	Complement	Predicator	Adjunct	Vocative	Ocluded
↓	5	4	3	2	1	0
7 Theme	Marked as Theme (Complement)	Adjunct	Predicator	3 rd Person	1 st /2 nd	
↓	5	4	3	2	1	0
8 News	Marked News (Theme)	News Only	Non-final	Marked Final (eg Predicator)	Final Unmarked	Theme only
↓	5	4	3	2	1	0
9 Person	Realized as 1st	As 2 nd	As 3 rd (particular)	As 3 rd (homophoric)	General Thing/ Stuff	No reference
	5	4	3	2	1	0

Logogenesis and instancial weight: *Sons and Lovers*

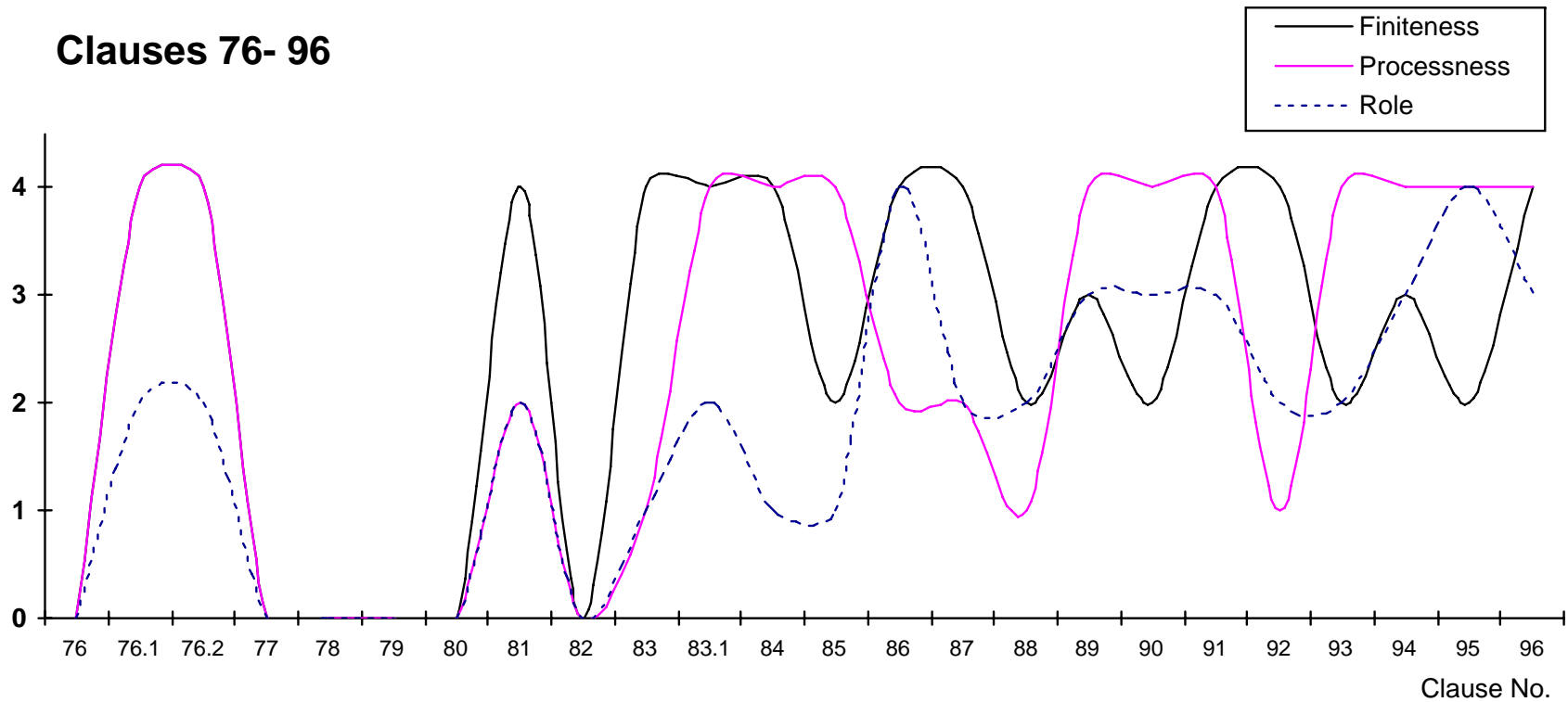


Logogenesis and instancial weight: *Sons and Lovers*

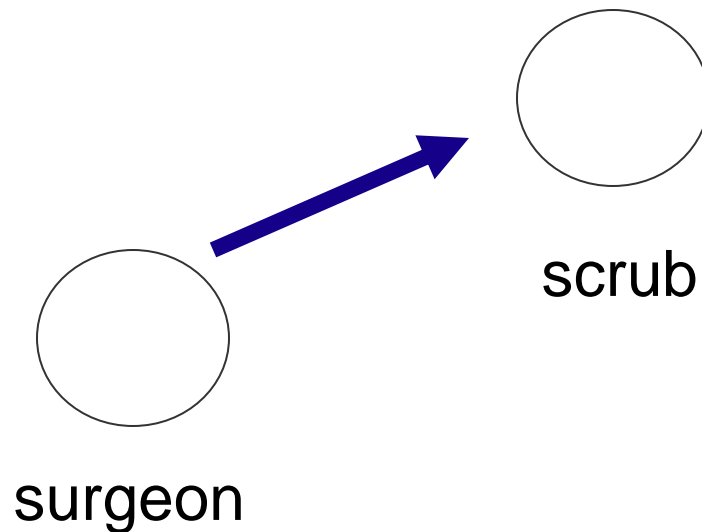


Logogenesis and instancial weight: *Sons and Lovers*

Clauses 76- 96

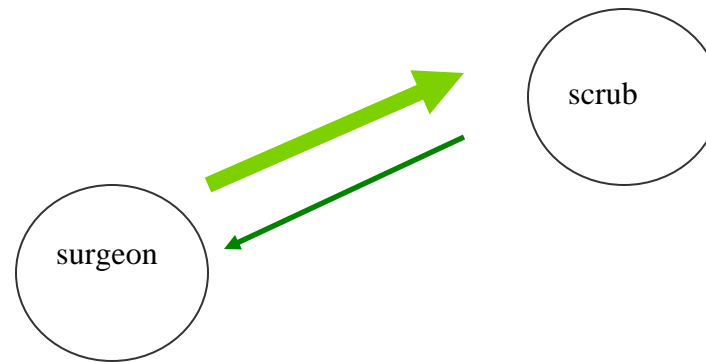


Communicative traffic - frequency & directionality




example 1: *Could I have another haemostat thanks?*

Communicative traffic - “speech function”



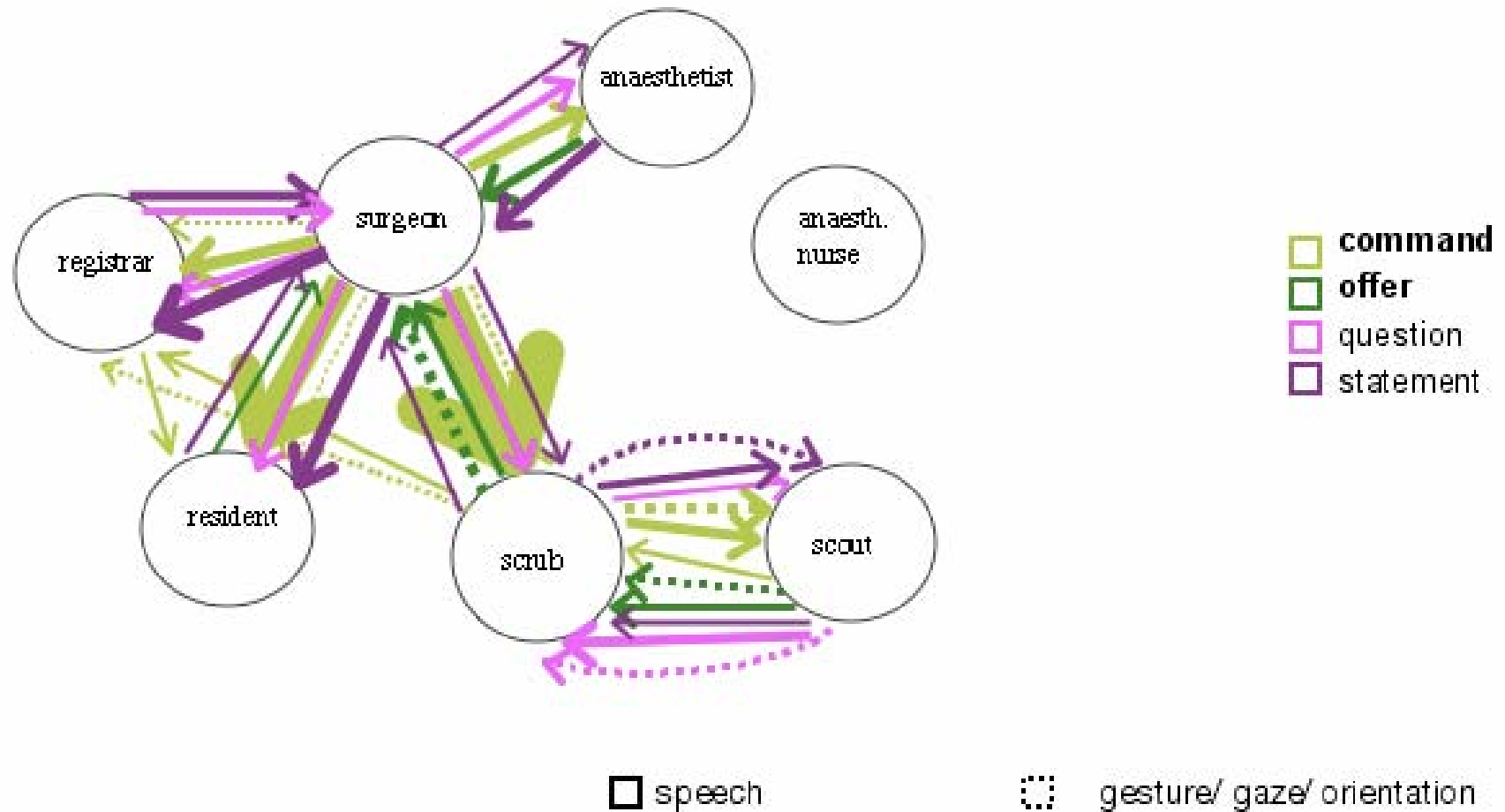
-  command
-  offer
-  question
-  statement

 speech

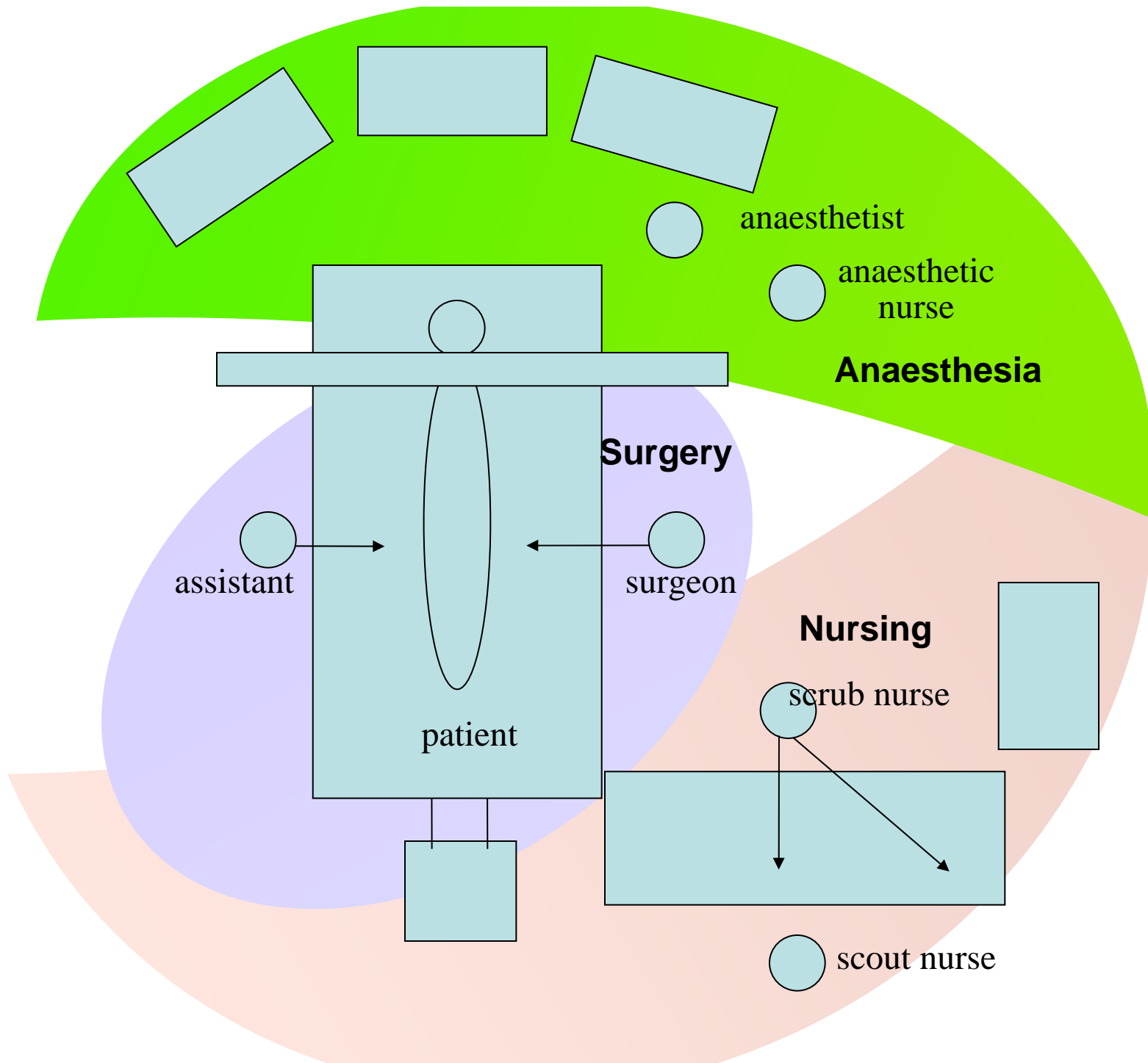
 gesture/ gaze/ orientati

[*I'd like another haemostat thanks (command)*
[*Here's another haemostat (offer)*

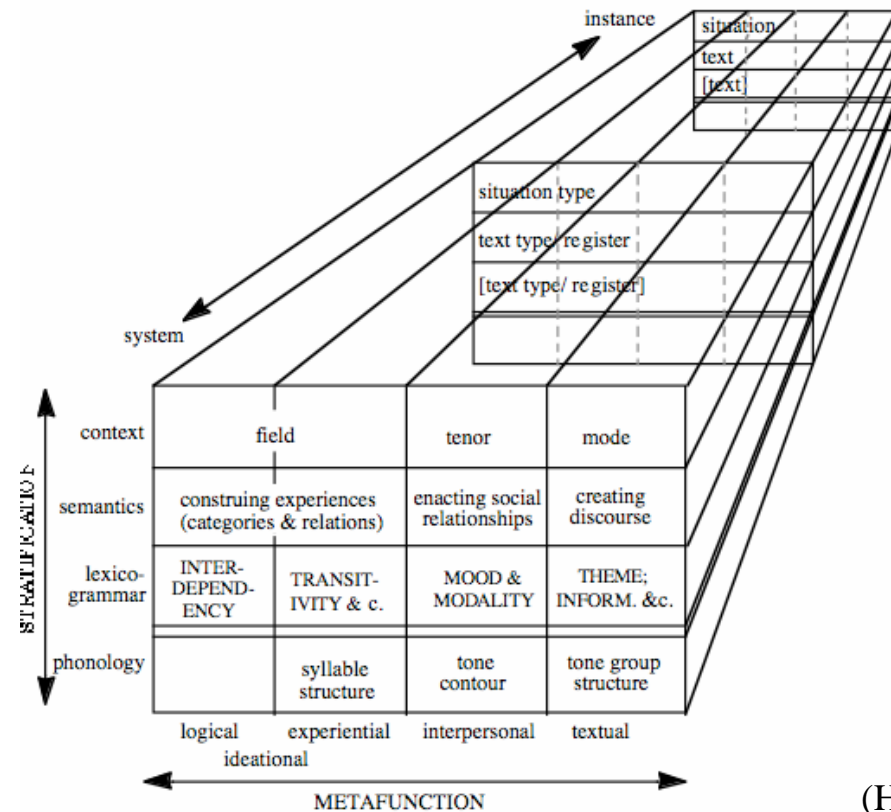
Building up team patterns







Dimensions for modelling variation in language & context



(Halliday 1978)