

CHAPTER I

Introduction	13
1. The content	13
2. Preview	17
3. Tuning the violins	23
4. Embodiment and operationalism	27

CHAPTER 2

From tool in general to language tool in particular	33
1 Tool in general	33
1.1 Transition	33
1.1.1 Illustration: two types of world	33
1.1.2 Qualitative rupture	40
1.1.3 Illustration: timeframe	42
1.1.4 On “the object” *	45
1.1.5 Association and displacement	47
1.2 Modification	50
1.2.1 Dimensions	50
1.2.2 The primordial motivation	51
1.2.3 The experience	53
1.2.4 Where change begins	55
1.2.5 Another input, another experience: new contents	61
1.2.6 Another input, another experience: formally	63
1.2.6.1 Bandwidth	64
1.2.6.2 Dilation, phase shift and complexity	64
1.2.6.3 Self initiation	66
1.2.6.4 Self-referral and detachment.	67
1.2.6.5 The overall effect on the experience.	67
1.3 Irreversibility	70
1.3.1 Self initiated imaginativity as by-product	70
1.3.2 The pre-imaginative point of entry	71
1.3.3 Consolidation	72
1.3.4 Cognitive reorganisation	72
1.3.5 Reorganisation as inhibition reinforcer	74
1.3.6 Amnesia	74
1.3.7 The method, a case of implicit learning	75
1.3.8 Automatization	75
1.3.9 Conclusion	76
2. From tool in general to language tool in particular	77
2.1 Language, prevailing points of view	77
2.1.1 Historical points of view	77
2.1.2 The common sense or folk psychological opinion	79
2.1.3 The dominant or mainstream paradigm	79
2.1.4 Textbook illustrations.	82
2.1.5 Local versus universal grammar: different functionality	85
2.1.6 Synthesis	86
2.1.7 The questions	87
2.1.8 Schematized summary	88
2.2 The introduction of a new cognitive scheme'	88
2.2.1 The initial situation and the introduction	88
2.2.2 The importance of the object	89
2.2.3 The “logic” of manipulation.	91
2.2.4 Categorization of objects	97
2.2.5 Displacement, freedom and reification	97
2.3 Information, syntax, pragmatics, constructivism	99
2.3.1 Language entities as physical objects	100
2.3.2 The transformation into a stimulus	101
2.3.3 From ecstasy to information	101

2.3.4	Information stimulates the skill of manipulation	104
2.3.5	Manipulation as substrate of generativity	105
2.3.6	Functions of imagination	110
2.3.7	The plural functional linguistic object	115
2.3.8	Critique: object as culture relative construct?	125
2.3.9	Critique: "object" in the neurophysiology	131
2.4	The language trap as a variant of irreversibility	132
3.	Conclusion	133
CHAPTER 3		
	Holloways appreciation of the object as arbitrary form	137
1.	Introduction	137
2.	On the meaning of the arbitrary	138
3.	Imposition of an arbitrary form	139
4.	Synthesis	139
5.	Holloways inspiration	140
6.	Comments about the relation tools and language	140
7.	The antecedent importance of the social context	143
8.	The "finished artefact fallacy" by Noble en Davidson	147
CHAPTER 4		
	Neural correlates for objectification	149
1.	Motivation	149
2.	Discussion	151
3.	Conclusion	155
CHAPTER 5		
	Ingold on language, dwelling and objects	157
1.	Concerning language	157
2.	Ingold s appreciation of linguistic practice	159
3.	The poetics of dwelling	159
4.	Critique on modernity	160
5.	Critical consideration	161
6.	Concluding	163
CHAPTER 6		
	Seven misconceptions	165
1.	Each and every organism communicates	165
2.	The fallacy of the communicative intention	166
3.	Language as an intransitive faculty	167
4.	The apparent identity of speech and language	168
5.	Language as extension of nonverbal communication	168
6.	Anthropomorphising is ever-present	171
7.	Focus exclusively on information	172
8.	Concluding: about naturalization	172
CHAPTER 7		
	Communication and language, criterion	175
CHAPTER 8		
	Tool, the need for a definition	181
CHAPTER 9		
	On the feature of distance taking	189
CHAPTER 10		
	The linguistic turn in a historic perspective	193
1.	Introduction	193
2.	Language as understood today	194

3. Before 1650	195
4. The position of language	199
5. Luther and Galileo, a changing mentality	201
6. Intermezzo	201
7. Descartes (1596 - 1655)	202
8. Petites-Ecoles de Port-Royal	203
9. The first track: focus on natural language	206
10. The second track, the system	215
11. De Saussure: language as structure	218
12. Kant a different approach	219
13. Conclusion and schemes	220

CHAPTER 11

On the minimalist program	225
1. Introduction	225
2. A critical approach of the arguments	227

CHAPTER 12

The virtual world of language	235
-------------------------------	-----

CHAPTER 13

A slow evolution, skueomorphism?	239
----------------------------------	-----

CHAPTER 14

On the difference making the difference	249
1. The question	249
1.1 The theme	249
1.2 The question in its original form	249
1.3 The character of cognition	250
1.4 Rephrasing the question	250
1.5 A broad interest in the subject	251
1.6 Further elaboration	252
2. A familiar model	253
2.1 The stepping stone	254
3. Indications for a change	256
3.1 Artefacts...	256
3.2 ... as an indication of cognitive changes	256
3.3 Radical constructivism	258
3.4 Structure as a product of objectification	258
3.5 The arguments in a nutshell	259
3.6 Disconnection and making a choice	259
3.7 Analogy or projection	259
3.8 Meaning, symbol and formalisation	260
3.9 Evocation, meaning and external memory	261
3.10 The difference making the difference?	262
4. An exponential development	262
5. Conclusion	264
6. Epilogue	264
6.1 Evaluation criterion	264
6.2 Not all turning points are the same	265

CHAPTER 15

Exaptive conditions	269
1. The article	269
1.1 Relevance	269
1.2 Discussion	270
1.3 Conclusion	278
2. An alternative approach	279
2.1 On cognition	280
2.1.1 Meaning of cognition	280

2.1.2 Representation as making present anew	281
2.1.3 From representation to situated cognition	281
2.1.4 On disconnection and decontextualization	283
2.1.5 Self-initiation	284
2.1.6 The transformation of figure into object	285
2.1.7 The exaptive environment	285
2.2 On bipedalism	285
2.3 From objectification to anticipatory cognition	289
2.4 Conclusion	291
CHAPTER 16	
Conclusion	293
CHAPTER 17	
Epilogue	297
1. The hypothetical initial condition	297
1.1 Introduction	297
1.2 Discussion	299
2. The proof	307
References	321