Contents

Detailed contents Acknowledgments	vii xvi
Introduction Ralph Fasold and Jeff Connor-Linton	1
1 The sounds of language Elizabeth Zsiga	13
2 Words and their parts Donna Lardiere	55
3 The structure of sentences David Lightfoot and Ralph Fasold	97
4 Meaning Paul Portner	137
5 Discourse Deborah Schiffrin	169
6 Child language acquisition Kendall A. King	205
7 Language and the brain Michael T. Ullman	235
8 Language change Shaligram Shukla and Jeff Connor-Linton	275
9 Dialect variation Natalie Schilling-Estes	311
10 Language and culture Deborah Tannen	343
11 The politics of language Ralph Fasold	373
12 Writing Jeff Connor-Linton	401

vi	CONTENTS	
	13 Second language acquisition Alison Mackey	433
	14 Computational linguistics Inderjeet Mani	465
	Glossary References Index	493 519 533

Detailed contents

	Introduction	1
	Universal properties of language	1
	Modularity	2
	Constituency and recursion	2
	Discreteness	3
	Productivity	4
	Arbitrariness	4
	Reliance on context	5
	Variability	6
	The descriptive approach	7
	Defining language	9
	The diversity of linguistics	10
	How to approach this book	11
1	The sounds of language	13
	Key terms	13
	Chapter preview	13
	Goals	14
	Articulatory phonetics	14
	The tools of phonetics	14
	The vocal tract	14
	Articulation	17
	Manners of articulation	18
	Writing sounds: transcription	20
	Consonants Vowels	22 25
		25
	Suprasegmentals Length	28
	Tone and intonation	20
	Syllable structure	30
	Stress	31
	Acoustic phonetics	32
	Sound waves	32
	Simple and complex sounds	33
	Hearing	34
	Measuring speech	35
	Phonology	38
	Phonemes and allophones	38
	Phonotactics	41
	Alternation and allomorphs	43
	Types of phonological alternations	44

viii

DETAILED CONTENTS

	Phonological theory	47
	Chapter summary	49
	Exercises	50
	Suggestions for further reading	53
2	Words and their parts	55
	Key terms	55
	Chapter preview	55
	Goals	56
	What is a word?	56
	Morphology: the study of word-structure	59
	Morphemes	61
	The forms of morphemes	64
	Some morphological operations of the world's	66
	languages Affixation	66 67
	Other types of affixation	66
	Reduplication	69
	Ablaut and suppletion	71
	Tone and stress	72
	Two purposes of morphology: derivation and inflection	72
	Derivation	74
	Inflection	80
	Acquiring inflectional contrasts	90
	Chapter summary	92
	Exercises	93
	Suggestions for further reading	96
3	The structure of sentences	97
	Key terms	97
	Chapter preview	97
	Goals	98
	Poverty of the stimulus	98
	The amazing robot basketball player	98
	Applying the metaphor to the structure of sentences Compositionality	99 100
	Projection	100
	Merger	100
	Adjunction	107
	Movement and deletion	109
	Grammars are finite; language is not	111
	Recursion	112
	The significance of recursion	113
	Restrictions	113
	You can do without <i>that</i> , but not always	113
	Heavy Determiner Phrase movement	116
	The Binding Theory	117
	Summary	121

	Detailed contents	
D '''		
Differences in syntax across languages	122	
Head–complement order in Hindi	122	
Immobile-WH-words in Thai	123	
Gender in languages	123	
Functional Syntax	126	
A functional analysis of pronouns	126	
Contrasting formal and functional analyses	128	
Chapter summary	129	
Exercises	131	
Suggestions for further reading	135	
4 Meaning	137	
Key terms	137	
Chapter preview	137	
Goals	138	
Speaker's meaning and semantic meaning	138	
Semantics	139	
Fundamental semantic concepts and		
compositionality	140	
Subjects, predicates, and arguments	141	
Thematic roles and lexical semantics	143	
Logical words	146	
Modifiers	147	
Quantification	149	
Intensionality	152	
Semantics summary	156	
Pragmatics 1: meaning and context	157	
Indexicality, context-dependency, and anaphora		
Presupposition	158	
Pragmatics 2: meaning and the intention to		
communicate	159	
The Gricean view of meaning	159	
Implicature	160	
Speech acts	162	
Pragmatics summary	163	
Philosophical issues	163	
The psychological view	163	
The referential view	165	
Chapter summary	166	
Exercises	166	
Suggestions for further reading	168	
5 Discourse	169	
Key terms	169	
Chapter preview	169	
Goals	170	
Language use above and beyond the sentence		
Data: language use in everyday life	170	

x	DETAILED CONTENTS	
	Spoken and written discourse: a first look	175
	Spoken discourse	176
	Sequential and distributional analyses	170
	Repair and recipient design	178
	Comparing transcripts	180
	Adjacency pairs	182
	Participation frameworks	183
	Narratives	184
	Summary: spoken discourse	185
	Written discourse	186
	Fragmentation and integration	186
	Writing to be read	187
	Language functions	192
	Planes of discourse	194
	Participation framework	195
	Exchange structure	195
	Act structures	196
	Information state	196
	Idea structure	196
	Linking together planes of discourse	197
	Chapter summary	198
	Exercises	199
	Suggestions for further reading	202
	6 Child language acquisition	205
	Key terms	205
	Chapter preview Goals	205
		206 206
	Gathering data on language acquisition Parental diaries	200
	Observational studies	200
	Experimental studies	209
	The data: milestones in child language developmer	
	The first sounds	210
	The first words	212
	First sentences: morphological and syntactic	
	development	213
	Crosslinguistic and crosscultural aspects of language	
	acquisition	219
	Explaining the data	224
	Behaviorism	224
	Nativism	225
	Connectionism	227
	Social interactionism	228
	What's at stake in the child language debate?	230
	Chapter summary	231
	Exercises	231
	Suggestions for further reading	233

Detaile	d contents	
7 Language and the brain	235	
Key terms Chapter preview	235 235	
Goals	235	
The biology of the brain The cerebrum	236	
The cerebral cortex and its neurons	237	
Cytoarchitectonics: the distribution of neurons	238	
in the cortex	238	
The cerebellum, subcortical structures, and networks		
in the brain	241	
Questions about the biology of language	242	
Biological substrates: what are the biological bases		
of language?	242	
Biotemporal dynamics: what does brain activity during		
language use look like?	244	
Separability: do different language functions depend		
on different biological substrates?	244	
Domain specificity: are the biological substrates of		
language dedicated exclusively to language?	245	
Methods in the study of the biology of language	246	
The lesion method	247	
Hemodynamic neuroimaging	248	
Event-related potentials	251	
Magnetoencephalography	253	
Direct brain recording and stimulation	253	
Transcranial Magnetic Stimulation	254	
Evidence and explanations	255	
The lexicon, conceptual-semantics, and phonology	256	
Syntax	264	
Morphology	270	
Chapter summary	273	
Exercises	273	
Suggestions for further reading	274	
B Language change	275	
Key terms	275	
Chapter preview	275	
Goals	276	
Languages change	276	
Causes of language change	277	
Articulatory simplification	277	
Regularization	278	
Language contact	278	
Kinds of language change	280	
Phonological change	281	
Morphological change	283	
Syntactic change	284	

xii

	Semantic change	284
	Mechanisms of language change	285
	Sound change	285
	Borrowing	294
	Analogy	296
	Linguistic reconstruction and language families	298
	The comparative method Internal reconstruction	300
	Historical linguistics and culture	303 304
	Chapter summary	304
	Exercises	306
	Suggestions for further reading	310
٩	Dialect variation	311
9		
	Key terms	311 311
	Chapter preview Goals	311
	The nature of dialect variation	312
	Languages, dialects, and standards	312
	The regular patterning of dialects	312
	Why are standards held in such esteem?	314
	Why dialects?	315
	Inherent variability	316
	Levels of dialect variation	319
	Lexical variation	320
	Phonological variation	321
	Morphosyntactic variation	323
	Pragmatic variation	324
	Shared features among dialects	324
	Types of dialect variation	326
	Social class and social network	326
	Gender-based patterns of variation	328
	Ethnicity-based variation	329
	Dialect and style	332
	Age-based variation and language change The fate of dialect variation	333 334
	Chapter summary	334
	Exercises	337
	Suggestions for further reading	341
10	55	
10	Language and culture	343
	Key terms	343
	Chapter preview Goals	343 344
	Culturally-influenced aspects of language	344 344
	Language, culture, and framing	344
	Crosscultural miscommunication	349
	Politeness and interaction	351

	Detailed contents	xiii
High-involvement and high-consideration	teness styles 354	
Overlap	354	
Back-channel cues	356	
Turn-taking	357	
Asking questions	360	
Indirectness	361	
Mutual stereotyping	362	
The ritual nature of conversation	362	
Language and gender	363	
Complementary schismogenesis	365	
Language and cultural relativity	366	
Chapter summary	369	
Exercises	370	
Suggestions for further reading	371	
1 The politics of language	373	
Key terms	373	
Chapter preview	373	
Goals	374	
Identity politics and language	374	
Identity in language	375	
Key concepts	375	
Interpreting some of the cases	377	
Language standardization	378	
Minimum and arbitrary standards	380	
Nonstandard language: Ebonics	381	
Language issues in China and Singapo	ore 383	
The politics of standardization	385	
Diglossia	385	
"Languages" and "dialects"	386	
The politics of languages and dialects	388	
Official English	389	
Language rights in the United States	391	
Bilingualism	391	
Bilingual maintenance: continuing imn	nigration 392	
Bilingual maintenance: group identity	393	
Controlling the content of speech	395	
Blasphemy and cursing	396	
Hate speech	397	
Chapter summary	398	
Exercises	399	
Suggestions for further reading	400	
2 Writing	401	
Key terms	401	
Chapter preview	401	
Goals	402	
Writing and speaking	402	

xiv

DETAILED CONTENTS

Types of writing systems	404
Logographic systems	405
Syllabic systems	409
Alphabetic systems	411
Consonantal alphabetic systems	414
The development of writing	416
Protowriting	416
Cuneiform	419
Egyptian hieroglyphs	421
Early alphabets	423
The consequences of literacy	425
Conservatism	425
Democratization	426
Standardization	427
Relative advantage	428
Chapter summary	429
Exercises	430
Suggestions for further reading	432
17 Cocond language acquisition	477
13 Second language acquisition	433
Key terms	433
Chapter preview Goals	433
	434 434
Theories of second language acquisition Behaviorism	434 434
	454
Comprehensible input and the natural order	475
hypothesis The interaction hypothesis	435 438
Socioculturalism	436 440
Universal grammar	440
Frequency-based approaches	441
Summary	445
Individual differences in second language acquisition	446
First language (L1)	446
Age	446
Gender	447
Working memory	448
Motivation	448
Context of second language learning	449
SLA processes	450
Attention	450
Developmental sequences	450
Fossilization	452
Instruction	454
Teaching methods	455
Bridging the theory–pedagogy gap	458
Task-based language teaching and learning	458
Chapter summary	459

	Detailed contents	XV
Exercises	460	
Suggestions for further reading	463	
14 Computational linguistics	465	
Key terms	465	
Chapter preview	465	
Goals	466	
The computational perspective	466	
Morphological processing	467	
Tokenization	468	
Morphological analysis and synthesis	468	
Syntactic processing	471	
Context-free grammars	471	
Parsing	472	
Part-of-speech tagging	474	
Beyond context-free grammars	474	
Statistical parsing	476	
Semantic processing	478	
Word meaning	478	
Sentence meaning	479	
Natural language generation	481	
Probabilistic theories	482	
Related technologies	484	
Information extraction	485	
Speech recognition	485	
Speech synthesis	486	
Machine translation	487	
Major challenges in computational linguistics	488	
Chapter summary	489	
Exercises	490	
Suggestions for further reading	491	