Review	UN of basic mo	IIT 1 rphological concepts
The lexeme is other information	s a sign, pairing of n):	f form with meaning (possibly with
(1)	Lexeme CAT:	
	Phonology:	/kæt/
	Semantics:	[CAT]
See Aronoff &	Fudeman (2011:	43-46)
•The inflected	forms of a lexeme	e are word forms.
 Inflected forms [Number: Plural 	realize inflectiona] or [Tense: Past]	al features or properties, such as

	LEXEMES
• The princip gramn	form of inflected forms is given by a set of rules and les in the inflectional morphology component of the nar.
• An enume althou	important part of the inflectional morphology is the aration of inflectional features. These are language-specific, gh recurrent across languages.
• Som	e notational conventions:
	$LEXEME \to Small \text{ capitals}$
	'Meaning', [MEANING] \rightarrow quotes or square brackets+cap.
	$Words \rightarrow Italics$
	ru:ts (roots) \rightarrow phonetic transcription



PARADIGMS				
The inflected forms	s of a lexeme	e form parac	ligms.	
Base form	climb	swim	run	cut
Present participle	climb+ing	swimm+ing	runn+ing	cutt+ing
3rd person sg.	climb+s	swim+s	run+s	cut+s
Past	climb+ed	swam	ran	cut
Past participle	climb+ed	swum	run	cut
The word 'climbed' has two grammatic represents two differ	is a single v al descripti rent gramm	word form (of ons: past a atical words	f lexeme C nd particip S.	ELIMB), but i ble. Thus, i

PARADIGMS

• This systematic syncretism is shown in the following paradigm of regular verbs of English:

Base form	Х
Present Participle	X-ing
3rd person sg.	X-s
Past	X-ed
Past Participle	X-ed

 A full lexical entry morphological inform 	y for a lexeme m ation. Thus, the lexe	ay include syntactic and eme SWIM would include:
Phonology		/swim/
Morphology	past	swam
	past participle	e swum
Syntax	intransitive ve	erb
Semantics	[SWIM]	
Thus a full aptro	contains all idiosvn	cratic information about a

I	LEXICAL ENTRIES
 Very often there is word and one single r 	not a one-to-one correspondence between a meaning.
 Polysemy: There is meaning is a metaphore 	is similarity between meanings, so that one orical extension of another.
Mouth	1. Of a person
	2. Of a cave
	3. Of a river
Strike	1. hit
	2. give the impression

LEXICAL ENTRIES	
• In spite of meaning differences, idiosyncratic morphole unchanged: <i>struck</i> is the past of <i>strike</i> (regardless of meaning.	ogy remains the specific
• Occasionally, however, one meaning will have a inflectional paradigm or there will be vacilation (<i>mouse</i> what happens when we mean a computer mouse?)	regularized → <i>mice</i> , but
• When there is no meaning connection between two identical words, we use the term homonymy or homop	superficially ohony.
bank 1. money	
2. river	
• Very often homonyms are not homographs reign/rain. write/right), i.e. they are spelt differently.	(prey/pray,

LEXICAL ENTRIES

• There are intermediate cases in which it is unclear whether we are dealing with polysemy or homonymy:

Tom ran a mile

Tom ran a factory

Tom ran huge risks

• There are also areas in the lexicon of systematic polysemy. Some verbs have related transitive/intransitive verbs.

The vase broke

Tom broke the vase

• Because there is no predictable meaning relatedness between the different meanings of words such as *run*, this information will have to be stored in the lexicon.

LEXICAL ENTRIES

• Therefore, we are dealing with a whole host of distinct signs, and hence distinct lexemes.

• However, we also have to record in our lexicon that all these different lexemes have exactly the same morphological properties. This is achieved by introducing the concept of lexeme index.

• Each lexeme (i.e. each distinct sense of a word) is provided with its own unique index, which we'll notate using an arbitrarily selected number.

RUN		
Phonology		/rʌn/
Morphology	past	ran
	past participle	run
Syntax	Intransitive verb	
Semantics	[LOCOMOTE IN MANNER]	N CHARACTERISTIC RUNNING
ndex	1	

RUN		
Phonology		/rʌn/
Morphology	past	ran
	past participle	run
Syntax	transitive verb	
Semantics	[GOVERN ORG	ANIZATION OR INSTITUTION]
Index	2	

LEXICON

• The lexicon is a listing of all the lexical entries of the language.

• Some theories assume that it includes organizing principles (e.g. what kind of lexemes are systematically related to each other).

• Other theories just refer to 'lexicon' as an unstructured list of idiosyncractic facts about words.

• We shall call the organizing principles 'the lexical component' and keep the term 'lexicon' for the word register.

• See Aronoff & Fudeman (2011: 54-57) for further details.

	EXERCISES
I. Pr	ovide lexical entries for the following words:
	bring
	visit
	foot
	girl
2. P follo	rovide lexical entries, including a lexeme index, for the wing words:
	haad
	nead





Base	Derivate			
Noun	Noun	slave	slavery	-ery
	Verb	slave	enslave	en-
	Adjective	slave	slavish	-ish
Verb	Noun	print	printer	-er
	Verb	print	reprint	re-
	Adjective	print	printable	-able
Adjective	Noun	long	length	-th
	Verb	long	lengthen	-en
	Adjective	long	longish	-ish



THREE TYPES OF DERIVATION IN ENGLISH

• Conversions are cases in which new lexemes may be derived without any morphology being involved.

skin (noun) \rightarrow to skin (verb) 'remove skin from')

mix (verb) \rightarrow mix (noun)

DISCUS	SSING 1	THE MORPHEME CONCEPT
• A morphem unit of a word.	e is defin	ed as the smallest indivisible meaningful
This concept of the 1920s o	was put fo nwards.	prward by American Structuralist linguistics
 According to made up out contributes a n 	this view of simple neaning of	 each morphologically complex word is atomic building blocks, each of which its own to the whole word.
 Each morphe its own right) 	eme is a ki	ind of lexical sign (i.e. just like a lexeme in
	print	
	-7	





PROBLEMS FOR THE MORPHEME CONCEPT

• The morpheme concept assumes a one-to-one relationship between form and meaning.

• Problem 1: cumulation. One form simultaneously realizes more than one meaning, e.g. *walk-s*, 's' signals both 3rd person singular and present tense.

• Problem 2: extended or multiple exponence. One meaning is extended over more than one form, e.g. *driven*, where both the root /driv-/ and the suffix /-en/ are exclusive of the past participle form.

• Problem 3: null morphemes (zero morphs). These are morphemes with meaning, but no form. That is the case of the expression of the singular form of nouns, e.g.if *cat-s* is *cat+plural*, *cat* is *cat+singular* (null singular morpheme).

PROBLEMS FOR THE MORPHEME CONCEPT

•Problem 4: meaningless morphemes. These are often called cranberry morphs, cranberry morphemes or just cranberries, after the following:

blueberry, blackberry, cloudberry, gooseberry, strawberry,

loganberry, raspberry, bilberry, cranberry

• See Spencer (2004: 77-83) for a thorough discussion.

•In spite of its inadequacies, the morpheme concept is often used and sometimes useful as a rough guide to morphological structure.

MORPHOLOGICAL PROCESSES AND MORPHOLOGICAL OPERATIONS

• Examples of morphological processes are pluralization (i.e. the process whereby singular *cat* becomes plural *cats*) or past formation (*walk* becomes *walked*).

• Morphological operations are the procedures to implement morphological processes (e.g. prefixation/suffixation). In this sense, morphological operations are the exponent of a morphological process.

Morphological process:pluralizationMorphological operation:-z suffixationExponent of plurality-zResult $kat \rightarrow katz$

	SOM	E TERMINOL	OGY	
• The basi are built is	c phonological called root.	form of a lexeme	from wh	ich other forms
	/si:l/	'seal'	root	
	/si:ld/	'sealed'	inflecte	ed form
• The form realize sor and stems	which is the inflectional coincide, but n	input to some mo property is called not in other langua	rphologic stem. Ir ges such	al operation to English, roots as Spanish:
		/chic-/	'boy'	(root)
		(stem for)		
		(stem for) /chic-a/	'girl'	
		(stem for) /chic-a/ ↓ (stem for)	ʻgirl'	

SOME TERMINOLOGY

• Base: Form which is the input to compounding or derivational morphology, or an inflectional operation (e.g. *print* is the base of the derived verb *reprint*).

• Affix: morphophonological element added to the right (suffix) or left (prefix) of a base.

• Bound vs Free Elements: Bound elements cannot occur independently (morpheme –z, -ed, root /chic-/ in Spanish CHICO). Free elements can occur in isolation (root /kat/ is also word 'cat').

 Affixation 	on: Addition of affix to base form (alread	ly illustrated).
 Ablaut: a few irre certain type 	Change in the vowel of a root or stem. gular plurals, past tenses and occasion bes of affixation	This is found with nally accompanies
	man ~ men goose ~ gees	se
	sing ~ sang ~ sung	
 Conson the final c 	ant mutation: A handful of verbs are onsonant of a noun:	formed by voicing
	house /haus/ ~ to house /hauz/	1





PRODUCTIVITY

• Some morphological processes are very regular and more or less any lexeme of the right sort will undergo it, e.g. nearly all transitive verbs have an -able/-ible form. These are called productive processes.

• Others only apply to a small number of lexemes and cannot be applied to new words, e.g. –ery in *bakery* (*drinkery). These are called non-productive processes.

• Certain types of compounding in English are productive, e.g. the Noun + Noun Compounding: *sword fish*

• Others are only found in a handful of compounds, e.g. Verb + Noun as in *swearword*.

CLITICS					
 These are phonologically dependent elements that have to 'lean on' a phonological host to the right – proclitic, or to the left – enclitic. 					
 Some well-known cases of enclitics include it's, could've, she'll, wasn't. 					
 The Saxon genitive is also a clitic, attaching to the right edge of the NP containing the possessor: [The girl]'s name. 					
• Many function words are normally unstressed and could be seen as clitics: <i>the book, an orange</i> .					