# **English Morphology**

Dott.ssa Gloria Cappelli

#### What is a word?

Word: not a strightforward notion.

The smalles meaningful unit of language is a MORPHEME

certain, mean, linguist: free morphemes (they can stand on their own)

-ly, -ing, -less: bound morphemes (they can only be used attached to a free morpheme)

# What is morphology?

The subdiscipline of linguistics which studies the *internal* structure of words, the rules that govern it, as well as the ways of creating new words.

# Morphology (I)

- Morphology is normally subdivided into two branches:
- **1.Derivational** (or **Lexical**) Morphology

2. Inflectional Morphology

it studies the means by which existing words have been constructed and by which new words might be created.

it studies the way words are adapted in different *grammatical* contexts.

(e.g. making a noun plural)

#### **Morphemes**

Word analysis involves breaking a word into its morphemes.

- •Literally, the word "morpheme" means 'an element in a system of forms.'
- Linguists define it more precisely as the smallest form which is paired with a particular meaning.

We say that each form (i.e. MORPH) plus the meaning linked to it is a single morpheme.

#### Meaningful units (1)



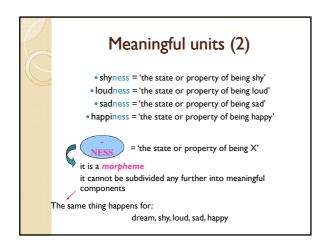
 How can we identify which part in a word is meaningful and what meaning it has?

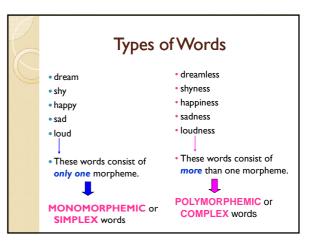
#### SHYNESS

- 'shy' = 'nervous and embarrassed about meeting and speaking to other people'.
- a meaningful unit, a morpheme.
- -ness = ?

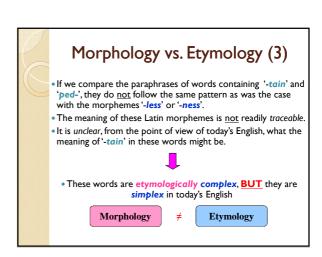
There is <u>no</u> such a word in English. <u>BUT</u> the fact that there are many words that contain the unit 'ness' makes us think that it might be a morpheme.

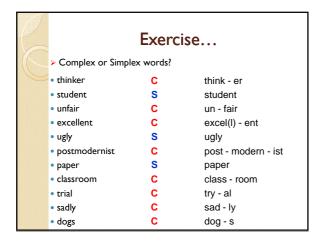
To verify this, we should find out if it has a *meaning*, by paraphrasing different words containing '-ness', in order to see whether it contributes any meaning to the overall meaning of these words.





# 





# Morphemes vs. Syllables (I) • Morphemes should not be confused with syllables. a unit of meaning • Sometimes a single morpheme has several syllables. e.g. English speakers would probably consider the word "hurricane" as a single morpheme. (derived from Spanish, which in turn drew the word from Taino, an Arawak language from the Caribbean) • At other times a morpheme will use less than one syllable. cats has two morphemes in one syllable: 'feline' + 'plural'. cats' has three morphemes in a single syllable: 'feline' + 'plural' + 'plural' + 'belonging to'.

# Characteristics of Morphemes

- Morphemes have four defining characteristics:
- 1. They cannot be subdivided.
- 2. They add meaning to a word.
- 3. They can appear in many different
- 4. They can have any number of syllables.

# 1. One form, two (or more) meanings

- <u>Two</u> different <u>meanings</u> can be expressed using the <u>same</u> arrangement of **sounds**. Since there are clearly two different and unrelated meanings, we would want to say that there are
- The case of 'in-':

```
in- → 'not' in words like incapable, insufficient
in- -> 'into, within', as in invade, include
```

These similarities are just accidental and typically the origins of the two morphemes are completely unrelated.

# 2.Two (or more) forms, one meaning

When two different forms have the same meaning, they could be <u>different</u> morphemes, or they might be a <u>single</u> morpheme.

Two forms, one meaning = two morphemes

There are two situations in which two forms have the same meaning, but they are different morphemes.

I. The forms are usually rather different from one another.

andr → 'man, male' as in android vir → 'man, male' as in virile



Both morphemes *mean* the <u>same</u> thing, <u>but</u> they are <u>very</u> <u>different</u> in *form*. They have completely different origins, and we want to think of them as different morphemes.

# **Allomorphs**

- The same morpheme can be realised in different ways.
- The different realisations of the same morpheme are called
- This is usually the result of phonology interacting with
  - im-polite il-legal 'in-', 'im-', 'il-', 'ir-' → allomorphs
- Consider the different realisations of the morpheme {plural}:

mouse > mice tooth > teeth child > children

sheep > sheep

- $\rightarrow$  (Regular form)  $\rightarrow$  vowel change
- $\rightarrow$  vowel change → vowel change + suffix '-ren'
- → zero morph

## **Bases**

- agree
- construct
- cheer create

- disagree construction
- cheerful recreation
- disagreement constructional
- cheerfulness recreational
- Words in (1) give the bases for the derivatives in (2), which in turn contain the bases for the derivatives in (3).
- However, bases in (1) differ from bases in (2).
- Bases in (1) do <u>not</u> contain any further morphemes, therefore they cannot be analysed into constituent morphemes, unlike bases in (2).
- Bases in (1) are simplex and they are called ROOTS.
- Bases in (2) are complex:

'disagree' → dis-, agree → 2 constituent morphemes 'recreation'  $\rightarrow$  re-, create, -ion  $\rightarrow$  3 constituent morphemes

#### Roots, Bases and Stems

ROOT: The morpheme which lies at the core of a complex word form. Words may have multiple roots.

BASE: Any form (morpheme or word) which enters a word-formation process which yields a more complex form.

The term "stem" is reserved for inflectional processes . STEM:A form without any inflectional endings.

WINNERS: "winner" is the stem. Also,  $\{W|N\}$  is the root. WINNER:  $\{W|N\}$  is the root and "win" is (also) the base. PLAYFUL: {PLAY} is the root of the word and "play" is its base. PLAYFULNESS: the root is still {PLAY}, but the base is "playful". FAIRPLAY: two roots, {FAIR} and {PLAY}.

# Types of morphemes (3)

- unhappy
- dislike
- mispronounce
- malnutrition
- management
- motherhood • cheerful
- settlement
- Bound morphemes, such as 'un-' and '-ment', which appear only attached to other, usually free, morphemes are termed AFFIXES.
- Affixes attached before the base are PREFIXES.
- Affixes attached after the base are SUFFIXES.
- Affixes can differ in their position with respect to their bases.
- Cases in which the affix is inserted into the base → INFIXES.

In English, infixation generally only happens with swear words such as 'fan-fucking-tastic' or ' abso-bloody-lutely'.

# Types of morphemes (4)

- Irregular words do not obey the general rules for forming plurals or past tenses. However they are still considered to be made up of the same number of morphemes as if they were regular.
- sheep > sheep → zero morbh
- mouse > mice  $\rightarrow$  vowel alternation



'mice' contains <u>two</u> morphemes as it is made up of the root 'mouse' and the idea of plurality, i.e. the morpheme 'more than

give > gave → vowel alternation

'gave' also contains <u>two</u> morphemes as it is made up of the root "give" and the idea of past tense.

# Morphological Analysis (1)

#### **BLENDER**



- It consists of 2 morphemes: 'blend' and '-er'.
- 'blend' is the root and the base to which the suffix '-er' is attached.

#### **GLOBALISATION**

- It contains 4 morphemes
- 'globe' is the root and '-al', '-ise' and '-ation' are the suffixes.
- Each suffix has been attached successively to that part of the word after which it appears:
- '-al' appears after 'globe', which is its root and base,
- '-ise' appears after 'global', which is its base,
- · '-ation' appears after 'globalise', which is its base.

hase.

Spelling changes may occur if affixes are attached to a

# Morphological Analysis (2)

#### UNFEARFUL



- It consists of 3 morphemes
- 'fear' is the root and base to which the suffix '-ful' is attached.
- 'un-' is the **prefix** attached to the **base** 'fearful'.



Morphological Analysis → it shows what morphemes a word consists of, it describes these morphemes in terms of their *type*, and it also identifies the *order* in which they are combined.

#### Exercise...

- Morphological analysis: For the following words identify the number of morphemes, all roots, bases and affixes.
- premodernism
- 3 morphemes: premodernism
- uncivilised demilitarisation
- 4 morphemes: uncivilised 4 morphemes: demilitarisation
- historicity
- 3 morphemes: historicity
- minimalists
- recreation
- 4 morphemes: minimalists
- removable
- 3 morphemes: recreation 3 morphemes: removable
- exceptionally
- 4 morphemes: exceptionally

# Morphological processes

#### **BAKES BAKED**

- They are not two different words, but two different forms of the same word, i.e. bake
- They are grammatically fully specified forms of an abstract unit, i.e. bake

# **LEXEME**

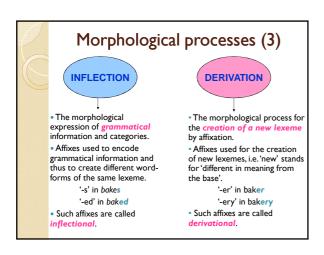
A word as an abstract unit in the vocabulary of a language (e.g. bake)

# WORD-FORMS

(or **grammatical words**)
The different grammatically specified forms of a given lexeme (e.g. bakes, baking, baked)

#### **BAKER vs. BAKES/BAKED**

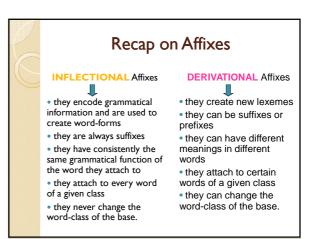
- It is not a word-form of the lexeme bake, but it is a different lexeme
- · As a lexeme, it manifests itself in different word-forms, e.g. baker (sing.), bakers (pl.), baker's (possessive).



# Inflectional Affixes The inventory of English inflectional affixes is quite small. See Ballard, The Frameworks of English, Chapter 4.

# **Derivational Affixes**

See Ballard, The Frameworks of English, Chapter 3.

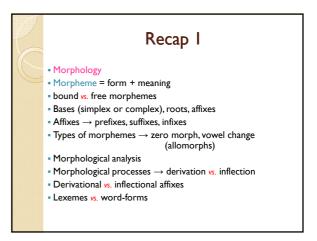


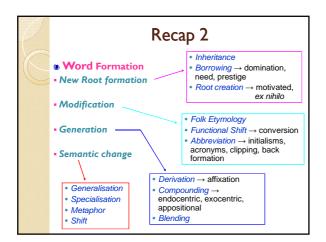
#### **Word Formation**

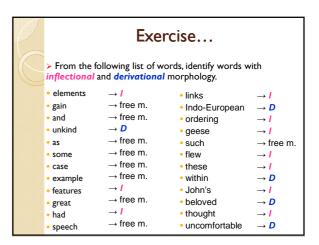
 See Ballard, The Frameworks of English, Chapter 3.

#### Exercise... Identify the type of word-formation process by which the following words have been created. $\mathsf{BACK}\;\mathsf{CLIPPING}\to \text{`advertisement'}$ BACKFORMATION → 'editor' edit Chaplinesque DERIVATION → Suffix '-esque' (Adj) DERIVATION → Prefix '-de' / Suffix '-ation' deforestation FRONT CLIPPING $\rightarrow$ 'telephone' phone $COMPOUNDING \rightarrow Adj + N$ blackboard NASA ABBREVIATION (Acronym) ABBREVIATON (Initialism) YMCA DERIVATION → Suffix '-/y' (Adv) happily MIXED CLIPPING → 'influenza' $INFLECTION \rightarrow irreg.$ plural of 'ox' oxen $\mathsf{INFLECTION} \to \mathsf{3rd}$ person sing. Present goes BLENDING → motorway + hotel motel

#### Exercise... > Derivation with word-class change: slow • slowness $Adi \rightarrow N$ memory • memorise $\mathsf{N} \to \mathsf{V}$ $N \rightarrow Adj$ recreation • recreational • glor*ify* $N \rightarrow V$ glory drink • drink*able* $V \rightarrow Adj$ deliver • delivery $\mathsf{V} \to \mathsf{N}$ • enrich $Adj \to V$ • rich $\mathsf{V}\to\mathsf{N}$ determination determine • loving $V \rightarrow Adj$ love • powerful $N \rightarrow Adj$ power happy • happily $Adj \to Adv$







Exercise... > Analyse the following words: mismatched  $\rightarrow$  3 ms: mismatched / D - I → 3 ms: telebanking / D - D telebanking → 2 ms: rose + water / Compound rosewater → 3 ms: postmastership / D - D postmastership  $\rightarrow$  3 ms: beloved / D - D beloved  $\rightarrow$  2 ms: sing + Past Tense /  $\emph{I}$ sang → 3 ms: Indo + European / Comp. D • Indo-European  $\rightarrow$  2 ms: sheep + plural / I• (many) sheep  $\rightarrow$  3 ms: inputs / D - I • inputs → 3 ms: economics / D - D economics  $\rightarrow$  4 ms: <u>academ</u>ically / D - D - D academically → 2 ms: clever + comparative -er / I cleverer

Exercise... 1. treat (root) + mis-I. mistreatment (derivational) + -ment (derivational) 2. disactivation 2. act (root) + -ive (derivational) + -ate (derivational) + -ion 3. psychology (derivational) + dis- (derivational) 3. psych- or psyche (root) + -ology (derivational) 4. terrorized 4. terror (root) + -ize (derivational) + PAST (inflectional) if the word is a verb form
OR terrorized = terror (root) + -ize (derivational) - -ed (derivational) if the word is an adjective

#### Exercise...

When a compound has more than 2 roots, two of them might form a compound which then combines with a third root to form another compound.

drop-in center

#### Exercise...

Identify the relations between the elements of the following compounds:

- dual carriageway dual + carriageway
- disk operating system disk + [operating + system]
- Dutch elm desease [Dutch + Elm] + desease
- fair-weather friend fair-weather + friend
- fine-tooth comb fine-tooth + comb
- local area network | local + [area + network]
- optical character recognition optical + [c. + r.]
- repetitive strain injury [r. + s.] + injury

#### Exercise...

Aanalyse the following lexical items:

filling stations

#### Root(s):

fill, station

Affixe(s):

-ing, -s

#### Morphological process(es):

I (pres. part.) + D (compound) + I (pl)

([[fill+ing] + station] + s)

Word-class:

Noun

#### Exercise...

Aanalyse the following lexical items:

radio-controlled

#### Root(s):

radio, control

Affixe(s):

-ed

#### Morphological process(es):

D (compound) + I (past part.)

([radio + control] + (l)ed)

Word-class:

Adj

## Exercise...

Aanalyse the following lexical items:

absent-minded

#### Root(s):

absent, mind

#### Affixe(s):

-ed

#### Morphological process(es):

D (compound) + D (-ed)

([absent + mind] + ed)

Word-class:

Adj

#### Exercise...

Aanalyse the following lexical items:

radio-controlled

#### Root(s):

radio, control

Affixe(s):

-ed

#### Morphological process(es):

D (compound) + I (past part.)

([radio + control] + (l)ed)

Word-class:

Adj

#### Exercise...

Which part is the combining form (part of a neoclassical compound)?

- meritocracy
- meritocracy ("rule")
- pesticide
- pesticide ("killing")
- neorosurgery
- neurosurgery ("nerve")
- anglophile
- anglophile ("fond of")
- technophobia
- technophobia ("fear")
- television
- television ("distant")

#### Exercise...

Which one is the semantic head in the following compounds?

pinhead

the **head** of a pin



- pinhole
- a small hole made with or as if with a pin
- pin money

money for incidental expenses

- pinprick
- a slight puncture made by or as if by a pin

#### Exercise...

Which one is the meaning relation between the components in the following compounds?

bookworm

One who spends much time reading or studying.

- brainbox
- a clever person
- egghead

an intellectual, a highbrow

mastermind

A highly intelligent person, especially one who plans and directs a complex or difficult project

#### Identify the inflectional morphemes

The place fascinated us, as it should have. For this was the kitchen midden of all the civilization we knew. It gave us the most tantalizing glimpses into our neighbors' lives and our own; it provided an aesthetic distance from which to know ourselve

The town dump was our poetry and our history. We took it home with us by the wagonload, bringing back into town the things the town had used and thrown awa Some little part of what we gathered, mainly bottles, we managed to bring back to usefulness, but most of our gleanings we left lying around barn or attic or cellar until in some renewed fury of spring cleanup our families carted them off to the dump again, to be rescued and briefly treasured by some other boy. Occasionally something we really valued with a passion was snatched from us in horror and returned at once. That happened to the mounted head of a white mountain goat, somebody's trophy from old times and the far Rocky Mountains, that I brought home one day. My mother took one look and discovered that his beard was full of

I remember that goat; I regret him yet. Poetry is seldom useful, but always memorable If I were a sociologist anxious to study in detail the life of any community I would go very early to its refuse piles. For a community may be as well judged by what it throws away - what it has to throw away and what it chooses to - as by any other evidence. For whole civilizations we sometimes have no more of the poetry and little more of the history than this (from Wolf Willow 1955: 35-36).

#### Identify the inflectional morphemes

The place fascinated us, as it should have. For this was the kitchen midden of all the civilization we knew. It gave us the most tantalizing glimpses into our neighbors' lives and our own; it provided an aesthetic distance from which to know ourselves.

The town dump was our poetry and our history. We took it home with us by the wagonload, bringing back into town the things the town had used and thrown away. Some little part of what we gathered, mainly bottles, we managed to bring back to usefulness, but most of our gleanings we left lying around barn or attic or cellar until in some renewed fury of spring cleanup our families carted them off to the dump again, to be rescued and briefly treasured by some other boy. Occasionally something we really valued with a passion was snatched from us in horror and returned at once. That happened to the mounted head of a white mountain goat, somebody's trophy from old times and the far Rocky Mountains, that I brought home one day. My mother took one look and discovered that his beard was full of moths.

I remember that goat; I regret him yet. Poetry is seldom useful, but always memorable. If I were a sociologist anxious to study in detail the life of any community I would go very early to its refuse piles. For a community may be as well judged by what it throws away - what it has to throw away and what it chooses to - as by any other evidence. For whole civilizations we sometimes have no more of the poetry and little more of the history than this (from Wolf Willow 1955: 35-36).

# **Mandatory Readings**

Introducing English Language, Sections A2, C2.

The Frameworks of English, Chapters 3 and 4.

# Additional Readings

The Cambridge Encyclopedia of the English Language, Chapter 14, p. 198-205.

# Possible questions

- Analyse the following words in terms of base, affixes, morphological process(es), word category
- Identify bound and free morphemes
- Identify the morphological process at work