Derivation and Inflection

Derivation and Inflection are two functional categories of change in morphology (suffix, prefix, etc. are formal categories, since they refer to the form of the change). An affix or other chunk of morphology is usually either derivational or inflectional, though there is a certain grey area between them.

Most of the affixes we are familiar with in English are derivational; English has only 8 inflectional affixes. On the other hand, all of the commonly-studied European languages are much more inflected than English, and most of the affixes we study in learning German, French, Spanish, or Russian are inflections. It is the fact that English speakers aren't used to using a lot of inflections that makes these languages as hard as they are for English speakers to learn. That same fact makes it a bit difficult to explain the difference. But we'll try.

Below are 5 characteristics that distinguish inflections from derivations. Remember that these can apply to any formal class — suffixes, prefixes, infixes, root change, suppletion, reduplication, etc.

Derivational Morphemes ...

Can change part of speech or meaning; e.g, -ment forms nouns such as judgement from verbs such as judge.

- Typically indicate semantic relations within the word, e.g, the morpheme -ful in painful has no particular connection with any other morpheme in in a sentence, beyond the word painful. itself.
- 3. Typically occur with only some members of a class of morphemes, e.g., the suffix -hood occurs with just a few nouns such as brother, neighbor, and knight, but not with most others, e. g, friend, daughter, candle, etc.
- 4. Typically occur before inflectional suffixes (and after inflectional prefixes, though not in English); e.g, in chillier, the derivational suffix -y comes before the inflectional -er.
- 5. Instantiate a single category, which may be complex, but never occurs in a paradigm; e.g, there is no paradigm of all the ways there are of forming verbs from nouns, just scattered processes on different words.

Inflectional Morphemes ...

Do not change part of speech or meaning; e.g, big and bigger are both adjectives.

Typically indicate syntactic or semantic relations between different words in a sentence, e.g, the present tense morpheme -s in waits shows agreement with the subject of the verb (both are third person singular).

Typically occur with all members of a of some large class of morphemes, e.g, the plural morpheme -s occurs with almost all count nouns in English.

Typically occur at the margins of words, e.g., the plural morpheme -s always comes last in an English word, as inbabysitters or rationalizations.

Can instantiate categories that occur in paradigmatic sets; e.g., the categories of number and person produce the various forms of the verb: I am, you are, he is, we are, you are, they are.

Some Inflectional Categories

- 1. NUMBER (a category of Nouns; often agrees on other kinds of word)
 - a. English: robot, robots

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b. Samoan: ?oe 'you (one)'

?oulua 'you two'

?outou 'you (more than two)'

c. French: le livre ennuyant 'the boring book'

les livres ennuyants 'the boring books'

- 2. GENDER (a category of Nouns; often agrees on other kinds of word)
 - Spanish: los muchachos mexicanos
 las muchachas mexicanas
 - b. Bariba: dum baka 'a big horse' yam bakam 'a big space' kpèè bakaru 'a big stone' tam bakasu 'a big yam' boo bako 'a big goat' gàà bakanu 'a big thing' dònòn bako 'a big fire'
 - c. Swahili: watu wamefika 'The men have arrived'
 visu vimeanguka 'The knives fell'
 miti imekauka 'The tree withered'
- 3. CASE (a category of Nouns; often agrees on Adjectives)
 - a. English: student, student's; we, us, our, ours;
 - b. Finnish: 'house'

talo nominative (subject) talo<u>lle</u> allative ('to') talo<u>n</u> accusative (object) talo<u>na</u> essive ('as')

talon genitive ('of') taloa partitive ('(part) of')

talossa inessive ('in') taloksi translative ('(changes) into')

talosta elative ('out of')
taloon illative ('into')
talolla adessive ('on')
talolne comitative ('with', 'by')
talolne comitative ('together with')

c. Persian: Hasan yek ketāb did 'Hasan saw the book'

Hasan ketābrā did 'Hasan saw the book'
Hasan ketāb did 'Hasan saw a book/books'

d. Warlpiri: ŋatyu kana pulami 'I shout' ŋatyululu kananku nyuntu nyanyi 'I see you'

uhantajaja kanbatha uhanta uhandi , koa see me,

e. German: der gute Mann 'the good man'

des guten Mannes 'of the good man'

Some Inflectional Categories

- 4. PERSON (a category of Nouns* often marked on Verbs in agreement)
 - a. English: speak, speaks

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- b. Old Engl: folgie (1pers), folgast (2pers), falgab (3pers) 'follow (sg)'
- c. Samoan: <u>ima:ua</u> 'we two (excl)' <u>ima:tou</u> 'we (excl)' ita:ua 'we two(incl)' ita:tou 'we (incl)'
- d. Cree: okimaw iskwewa kitotew'

 'the chief (prox) talks to the women (obv)'
 okimawa iskwew kitotik

 'the chief (obv) talks to the women (prox)'
- 5. TENSE (a category of Verbs, marking time)
 - a. English: walk, walked
 - b. French: il parle 'he speaks' il parlera 'he will speak'
- 6. ASPECT (a category of Verbs, related to Tense, marking point of view)
 - a. Russian: ja <u>pro</u>čital roman 'I read (and finished) the book' ja čital roman 'I read (unclear if finished) the book'
 - b. Irish: d'ól sé é 'he drank it'
 d'óladh sé 'he used to drink'
- 7. MOOD (a category of Verbs, marking speech act type and possibility)
 - a. French: tu parles 'you speak'
 Parle! 'Speak!'
 - b. Luiseño: nóo néeq 'I am leaving' noo née víčuq 'I want to leave'
 - c. Turkish: kɨrajaksan 'if you are going to break' kɨr + ajak + sa + n
- 8. VOICE (a category of Verbs, marking agent-patient relations)
 - a, Latin: puella amat 'the girl loves' puella amatur 'the girl is loved'
 - b. Amharic: ləkkəmə 'he picked'
 tələjjəmə 'he was picked'
 aləkkəmə 'he himself made someone pick'
 asləkkəmə 'he caused others to make someone pick'
 alləkkəmə 'he helped to pick'

^{*} All nouns are 3rd person, by definition; only personal pronouns are 1st or 2nd.

The Inflectional Suffixes of English

Applies to:

Name:

Symbol:

(1) Nouns

Plural Number

 $\{-\mathbf{Z}_1\}$

Regular suffixal allomorphs (phonologically conditioned; preceded by epenthetic central vowel after sibilants):

/-s/ after voiceless sounds

/-z/ after voiced sounds (including vowels)

Irregular suffixal allomorphs (lexically conditioned):

-Ø [i.e, Zero] in sheep, moose, fish, etc. /-ə/ in data, phenomena opera., etc.

(Latin and Greek neuter nouns); /-ay/ in alumni, syllabi, etc. (Latin masculine nouns); /-e/ in alumnae (Latin feminine nouns); /-ən/ in oxen (Old English)

Irregular root modifications (lexically conditioned):

Final voiceless fricatives are voiced (f/ -> /v/, f/ -> /0/, f/ -> /z/) before adding regular suffixes in a class of nouns including hoof, leaf, life, path, and house.

Stem vowel change in:

mice, lice

(/aw/-> /ay/), plus Zero suffix

(/ze/ -> /E/), plus Zero suffix

men women

(/v/ · -> / u/), plus Zero suffix- ;

), plus Zelo sullix

children

(/ay/ -> /t/), plus irregular suffix /-rən/

(2) Nouns

Possessive Enclitic

 $\{-\mathbf{Z}_2\}$

Regular suffixal allomorphs - identical to (1) above.

Note: this inflection is changing from suffix to enclide status; it now attaches to the last word in a Noun Phrase (NP), instead of a Noun, e.g., The Prince of Denmark's soliloquy, not *The Prince's of Denmark soliloquy.

(3) Verbs Present Tense, 3rd Person, Singular Number {-Z3}

Regular suffixal allomorphs - identical to (1) above.

Irregular suffixal allomorph (lexically conditioned):

-Ø in she can, she will, she may, etc. (modal auxiliaries)

Irregular root modification: $\{have + Z_3\} = /hxz/(/v/ -> \emptyset \text{ before }/-z/)$ Irregular root suppletion: $\{be + Z_3\} = /\iota z/1$

(4) Verbs

Past Tense

{-ED}

Regular suffixal allomorphs, phonologically conditioned:

/-t/ after voiceless sounds, /-d/ after voiced sounds (including vowels)

(preceded by epenthetic /ə/ or /ɨ/ after dental stops /d/ and /t/)

Irregular suffixal allomorphs (lexically conditioned):

-Ø in some 1-syllable /d/- or /U-final verbs: beat, bet, burst, cast, cost, cut, hit,

hurt, knit, let, put, rid, set, shed, shut, slit, shit, spit, split, spread, and thrust

/d/ -> /t/ in some 1-syllable /d/-final verbs: bent, built, lent, sent, and spent.

/- U after some vowel-changed roots (others take - Ø; see below)

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^{1.} All forms but one of (be) are irregular: /Em/, /Lz/, /ar/, /waz/, /war/, /bin/; cf. /biyig/

The Inflectional Suffixes of English

(4) Verbs Past Tense {-ED} (Continued)

Irregular root modifications (lexically conditioned):

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Pure vowel changes: hid, ate, lay, came, read, ran, sang, swung, struck, got, shot, wound, swore, saw, fought, wrote, chose, stole, shook, grew, drew, etc.

Other root modifications: slept, dealt, bought, sold, said, lost, sought, left, made, etc.

Irregular root suppletion (lexically conditioned): {go + ED} = /went/

(5) Verbs Past Participle {-EN1}

Regular suffixal allomorphs — identical to (4) above. Many irregulars are also identical to the past tense form: fought, dug, read, won, struck, got, shot, etc.

Others are identical to the present, even if the past is irregular: come, run, etc.

Irregular suffixal allomorph (lexically conditioned):

/-an/ in some "strong" verbs: shaken, beaten, spoken, broken, bitten, etc.

/-n/ in others, especially after vowels: known, torn, done, drawn, seen, etc.

1rregular root modifications (lexically conditioned):

Pure vowel changes (all /ə/): sung, swung, drunk, swum, sprung, etc.

6) Verbs Present Participle (Gerund) {-ING}

Regular suffixal allomorph — /-in/

Note: This morpheme has no irregularities. (This is meta-irregular.)

(7) Verbs Infinitive {-\$\phi\$}

Regular suffixal allomorph -Zero

Note: This morpheme has a distinct form only in the verb be.

(8) Adjectives Comparative {-ER1}

Regular suffixal allomorph — /-ər/

Note: This morpheme applies only to monosyllabic adjectives and adverbs, bisyllabic ones that end in /-i/ (e.g., heavier, happier), and some bisyllabic ones that end in /-o/ (e.g., shallower, narrower, but not *mellower).

Irregular suppletive forms: {good/well + -ER1} = better

$$\{bad + -ER_1\} = worse$$

 $\{much + -ER_1\} = more$

(9) Adjectives Superlative {-EST}

Regular suffixal allomorph - /-ast/

Note: This morpheme has the same lexical and phonological restrictions as (7) above; if a given adjective or adverb takes (7), it will take (8), and if it has an irregular allomorph of (7), it has an irregular allomorph of (8).

Irregular suppletive forms: $\{good/well + -EST\} = best$ $\{bad + -EST\} = worst$ $\{much + -EST\} = most$