More morphology

before we start:

- first problem set is due 'today' (ending at dawn tomorrow)
- will try to put a new one up today
- finally figured out how to let you enroll yourselves in sections...
- anything else?

last time we saw:

lexicon contains **morphemes**, with information on:

- sound
- meaning
- bound vs. free
- prefix vs. suffix (vs. infix vs....)

there are more kinds of morphemes to talk about, and we will.

but first, another kind of information we're going to have to list.

industri-**al** nation**-al** autumn-**al**

-al attaches to a ...

^{*}assert-al

^{*}impress-al

^{*}industrializ-al

industri**-al** *industrializ-**al** industrializ-<u>ation</u>-al -ation creates ...

lexicon contains **morphemes**, with information on:

- sound
- meaning
- bound vs. free
- prefix vs. suffix
- what kind of morpheme they can attach to
- what kind of category they create

In fact, sometimes the information about what a morpheme can attach to isn't just information about categories:

sincere	-ity
chaste	-ity
scarce	-ity
curious	-ity
deep	-th
deep wide	-th -th

And there can be idiosyncratic information about what happens when the morphemes combine, too:

```
electri[k]-al electri[s]-ity
```

hum humm-ed leap [lep]-t go [wen]-t sing sang

-i[k] and -i[s],
 leap and [lep]

-[d] and **-[t]**

are <u>allomorphs</u>; different forms that a single morpheme takes in combination with other morphemes.

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are <u>allomorphs</u>; different forms that a single morpheme takes in combination with other morphemes.

(there is often a *default allomorph*. e.g., if I tell you that there's a verb *fleap*, you're going to assume that the past tense is *fleaped*, not *flept*)

Word structure

What does *-ment* attach to? What's the resulting category? govern**ment**, treat**ment**... *body**ment**, *power**ment**...

How about *em-*? **em**body, **em**power...

So why is there this contrast?

*bodyment, *powerment...

embodiment, empowerment...

N

V Aff
ment
Aff N
em power

• em: 'sister' is an N, 'mother' is a V

• ment: 'sister' is a V, 'mother' is an N

sometimes we may want to distinguish multiple, similar affixes...

un-wrap, un-tie

un-likely, un-happy

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un-wrap, un-tie

un-likely, un-happy

so what does un- attach to? and what does it create?

here's another affix to think about:

drink-able break-able watch-able

what does -able attach to? and what does it create?

Okay, so un_1 - attaches to Verbs, and creates Verbs (meaning "undo the effects of the Verb"):

un-wrap, un-tie

And un_2 - attaches to Adjectives, and creates Adjectives: (meaning "not Adjective")

un-likely, *un*-happy

And -able attaches to Verbs, and creates Adjectives: (meaning "can be Verbed")

drink-able, break-able

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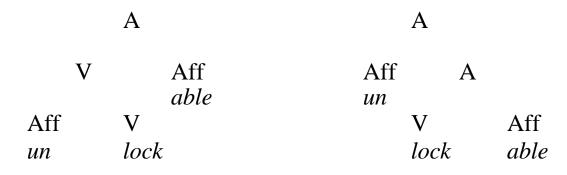
And un_2 - attaches to Adjectives, and creates Adjectives: (meaning "not Adjective")

un-likely, *un*-happy

And -able attaches to Verbs, and creates Adjectives: (meaning "can be Verbed")

drink-able, break-able

so what's the structure of *unlockable*?



'able to be unlocked' 'impossible to lock'

morphemes:

- -able: takes a V, yields an A meaning 'possible to V' (readable, understandable)
- un-#1: takes a V, yields a V meaning 'reverse the effects of V' (<u>untie</u>, <u>unwrap</u>)
- un- #2: takes an A, yields an A meaning 'not A' (unlikely, unhappy)
- lock: here, a V (though there is also an N 'lock'. Is one of these derived from the other, via an unpronounced affix?)

and a general process, call it "Merge":

take two things, X and Y, and form a new thing.

Merge is *recursive*: can apply to its own output.

And there are statements like "-able must Merge with a V, and the result is an A"

Now let's start talking about allomorphs a little more systematically.

jezyk 'language' jezyki 'languages'

garnek 'pot' garneki 'pots'

sok 'juice' soki 'juices'

wuk 'bow' wuki 'bows'

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brzek 'bank of a river' brzegi 'banks of a river'

dwuk 'debt' dwugi 'debts'

wuk 'lye' wugi '(kinds of) lye'

jezyk 'language' jezyki 'languages'

garne<u>k</u> 'pot' garne<u>k</u>i 'pots'

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wu**k** 'bow' wu**k**i 'bows'

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-->we'll never be able to predict which k's change to g's in the plural....

jezy <u>k</u> 'language'	jezy <u>k</u> i 'languages'	jezy <u>k</u>
garne k 'pot'	garne <u>k</u> i 'pots'	garne <u>k</u>
sok 'juice'	so <u>k</u> i 'juices'	so <u>k</u>
wu <u>k</u> 'bow'	wu <u>k</u> i 'bows'	wu <u>k</u>
brzek 'bank of a river'	brzegi 'banks of a river'	brzeg
dwu <u>k</u> 'debt'	dwugi 'debts'	dwug
wu <u>k</u> 'lye'	wugi '(kinds of) lye'	wug

plus a <u>rule</u>: \mathbf{g} changes to \mathbf{k} at the end of a word.

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