3/29/2016	Lacture 1	
	SIZE big/small	
	PRETTINESS pretty/beautiful/ugly	
	AGE old/young	
	color red/blue/green	
	pid stime and pld	
	NATIONALITY French/Belgian	
	dsid sold	
	RELIGION Rastafarian Catholic	
	loubivibri ytou	
	LITSING .	
	individualistic	
English	SIZE PRETTINESS AGE COLOR NATIONALITY RELIGION	HOUN
3	big pretty old blue French Catholic C	Church
	thry disgusting young purple - Rostafarian d	ream
	big	book
		ah
	The state of the s	
	Each of these slots is called a position class.	
	buld lead blue	
French	SIZE PRETTINESS AGE NOUN COLOR NATIONALITY RELI	GION
	grand - livre bleu	•
	liure bleu français -	
22	Detrilled Charletter	
	Keywords	
	Marphology - study of the structure of words	
	Syntax - the structure of sentences	
	Phonetics - how sounds are physically made with the body	1 2 1
	Phonology - restrictions on whichs sounds are possible/	
	Historical Linguistics 191139	0

x 4 cases = 120 total possibilities

223333

< 3

2

<

23 < < 3

< 3

43 43

43

23

<3

Case Rule

Add /i/ if accusative case (to end of word)
Add /de/ if locative case (to end of word)
Add/e/ if dative case (to end of word)

Isologina languages mue som or no suffixes at all

Input /eu/ [Num:pl, PossPer: 2, PossNum: Pl, case: Nominative]

Case Rule ov [Num:pl, PossPor: 2, PossNum:pl, cas: Nominative]

Plural Rule ev-ler "

PossPor Rule cv-ler-in-ize"

Note that performing the case rule last this still works! In fact, this is the proper ordering.

So why can we make this argument? Well, if we look of a word like "ellere" where the ordering of our ruleset produces the incorrect word.

A-B-C-STEM-X-Y-Z

rule for C goes before B, which comes before A.

rule for X goes before Y, which comes before Z.

Notice that adding suffixes and prefixes are totally independent

Let's consider a language like Latin, where suffix rules are not so clear. (See handout).

Notice that the suffix seems to express both case and plurality.

Agglumante languages has a 1:1 meaning: morpheme mapping.

Inflectional languages has a many: 1 meaning: marpheme marking.

Quiz Tuesday, like #8 on pg. 55 of CCLE textbook

Inflectional Morphology

"grammatical" morphology

[X]

Tense Agreement Case Gender

X 300 Dan X if [Feature: value] opposed a pointon

They don't really change what the word means at its core. It also doesn't change the part of speech of the word,

Now let's 100k at some stranger availables:

Derivational Morphology

-ly quick-ly lovely happi-ly misi-ly

careful-ly

Notice that these are all adverbs, except lovely, which is an adjective! Let's look at the dominant -by first

-ly [[x] [x] Adj | [X] Adv

meaning: in a way that is X

Now, anto the second -ly

[X] N > [[X] N Y] Adj meaning: having qualities related to X

W Son the stown of the

4/7/2016

Now let's look at some stranger examples:

berri-licious booty-licious taco-licious ferg-alicious

Out justing like #8 on pg. 64 of CCLE technology

[X] a > [[X] X] B reduction " Les itemmers"

[X] -> [[X] licious] Adj

meaning: having an emphasized quality of X, having a lot of X (and it's a good thing)

bridge-gate spy-gate deflate-gate gamer-gate

[X] > [[X], gote], meaning: a scandal Involving X

[X] > [[X] ygate] meaning: a scandal where X did something

[X] N/ > [[X] N/ gate] N mooning: a scandal muditing X Worke that these are all adveds, except lovely,

an adjective! Let's look of the dominant -ly first [taco] N

[X] N > [[X] N licious] Adj [taco] N > [taco] N licious] Adj

Output

[tacolicious] Aj

Now let's look at ness

[X]adj → [[X]adj ness]N meaning: the quality of being X

[[taco] N licious] adj ness] N

example meaning rule

unimap to reverse $X : [X]_v \to [un[X]_v]_v$ un - unspecsed not X [X]adj \Rightarrow [un[X]adj]adj -able loveable able to be Xed [X] $_{V} \rightarrow$ [[X], able]adj un - unapened unfair Rule Oider 1 Determines suffix prefix order (2) Often limited by the rules themselves (3) Determines meaning Let's look at unzippable, which has 2 meanings: 1) Not able to be done zipped 2) Able to be reversed (opposite of do, opposite of zip) Input Zip] [[un[zip]], adde] adj [un[[zip], pable] adj adj order 2 order 1 I then II then I

< 3

Notice that when speaking people can disambiguate by pausing in speech to indicate the order of construction of the word. When it is unclear we call it structural ambiguity.

Companding $[x_1]_n + [x_2]_n \rightarrow [[x_1]_n[x_2]_{n_1}]_n$

meaning: An X2 that relates in some way to X1.

This is just one of very many ways, but the PoS will always match X2.

Discussion 1

skill you Stem = canec = help jasens.

Stems should be as large as possible while remaining shared across the data set.

postering) (by is becoming strong

We are looking at our Zapotec data on the board.

ca cance (Person Minder: 3 phral & Tenso Rive

Monitor but lense tout someone Possessor is want as a sport so that ra- present -a I -toono/-toros we co - past -lo you(sing) -too you (plural) ca - future -ni she/he -ni they

Tense Rule

prefix: X mo) (

add: ra - if [Tense: present]

co - if [Tense: past]

ca - if [Tense: future a sound of : pour norm

Person/Number Rule: andt don't and some small

add a suffix, as follows:

-a if [Person: 1, Number: singular]

- lo if [Person: 2, Number: singular]

tonog if [Person: 1. Number: plural] 4ND

. O. . [Tense: Present] or [Tense: Future]

- toono if [Person: 1, Number: plural Tense: past]

- too if [Person: 2, Number: Plural]

Reduntication - repeating a word or part of it to allow the meaning

Let's denive cacqueenes stoned of snot ziti placuar

cance [Tense: future, Person/number: 3 plural]