Syntactic Theory I
Assignment 3

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I discussed this assignment with...

1 Examples and Glosses

Consider the following sentence:

(1) This is a sentence

(2) a. *Sentence a

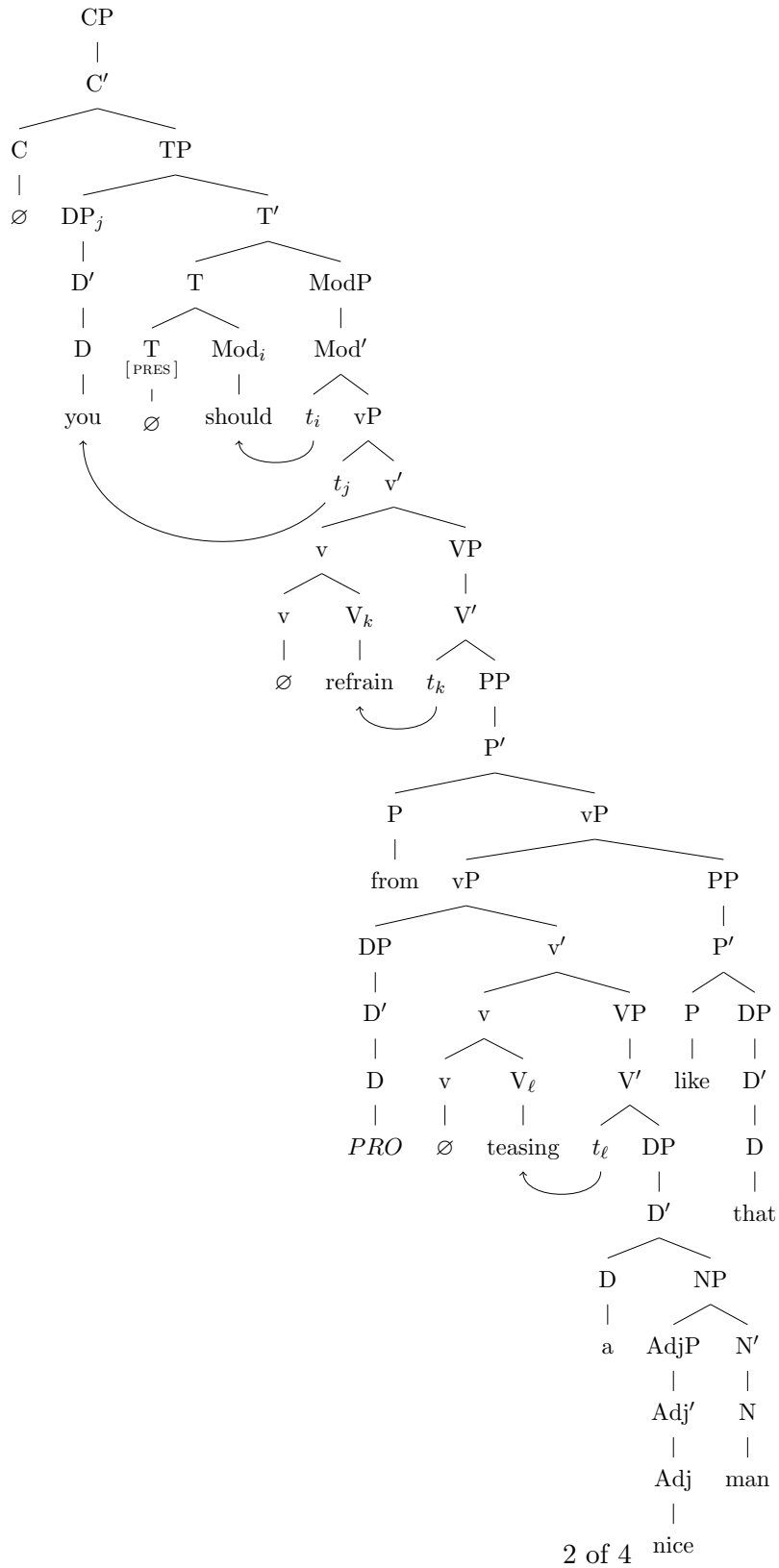
b.#Sentence b

c. Sentence c

Shiny glosses! I can refer to example (1) like this.

(3) Fische, die Fische fischen, fischen
fish.PL.NOM/ACC which.PL.NOM/ACC fish.PL.NOM/ACC fish.1/3.PL.PRES fish.1/3.PL.PRES
Fische, die Fische fischen.
fish.PL.NOM/ACC which.PL.NOM/ACC fish.PL.NOM/ACC fish.1/3.PL.PRES
'Fish which fish fish fish fish which fish fish.'

2 Trees


CP
C′
C
TP
∅
DP$_j$
T′
D′
T
ModP
D
T
[PRES]
Mod$_i$
Mod′
you
∅
should
t_i
vP
t_j
v′
v
VP
v
V$_k$
V′
∅
refrain
t_k
PP
P′
P
vP
from
vP
PP
DP
v′
P′
D′
v
VP
P
DP
D
v
V$_\ell$
V′
like
D′
PRO
∅
teasing
t_ℓ
DP
D
D′
that
D
NP
a
AdjP
N′
Adj′
N
Adj
man
nice

3 IPA

[ŋeta]

LANGUAGE, Loniu
INVENTORY, p,pʷ,t,tʃ,k,s,h,i,u,m,mʷ,n,ɲ,ŋ,e,o,l,ɛ,ɔ,r,a,w,j
PATTERN, Trigger, /a/ → [ɛ] / __X[o, ɔ] (in nouns)
CLASS, p,t,tʃ,s,l,r,j

4 Tableaux and Rules

/cat-z/	Agree	IDENT-IO(voice)	*C̬
[cats]		*	
[cadz]		*	*!
[catz]	*!	*	*
[cads]	*!	*	*

VOWEL LOWERING BEFORE UVULARS. Lower high vowels to mid vowels before uvular consonants.

$$\left[+\text{syl}\right] \rightarrow \left[-\text{high}\right] / \_\_ \begin{bmatrix} +\text{cons} \\ +\text{dorsal} \\ -\text{high} \end{bmatrix}$$

5 Semantics

Semantic rule: Exclusive Disjunction. If ϕ and ψ are formulas, then $[\![\phi \texttt{ XOR } \psi]\!]^I = 1$ if either $[\![\phi]\!]^I = 1$ and $[\![\psi]\!]^I = 0$, or $[\![\phi]\!]^I = 0$ and $[\![\psi]\!]^I = 1$. Otherwise $[\![\phi \texttt{ XOR } \psi]\!]^I = 0$.

Standalone equation:

$$\text{male} := \{\langle \text{Agnetha}, 0\rangle, \langle \text{Björn}, 1\rangle, \langle \text{Benny}, 1\rangle, \langle \text{Frida}, 0\rangle\}$$

Truth table:

P	Q	$[P \vee Q]$
1	1	1
1	0	1
0	1	1
0	0	0

Multiple aligned equations:

$$S_1 = \{\{\varnothing\}, \{A\}, A\} \qquad S_6 = \varnothing$$
$$S_2 = A \qquad S_7 = \{\varnothing\}$$
$$S_3 = \{A\} \qquad S_8 = \{\{\varnothing\}\}$$
$$S_4 = \{\{A\}\} \qquad S_9 = \{\varnothing, \{\varnothing\}\}$$
$$S_5 = \{\{A\}, A\}$$