

# HPSG FOR SINGLISH

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HELLO

- I am an MA student at NTU working on adding an analysis of Singlish with the ERG,
- I have done a theoretical analysis of *one* for my undergraduate thesis, and I am now trying to extend it computationally
- I want computers to work with Singlish!

# SINGLISH

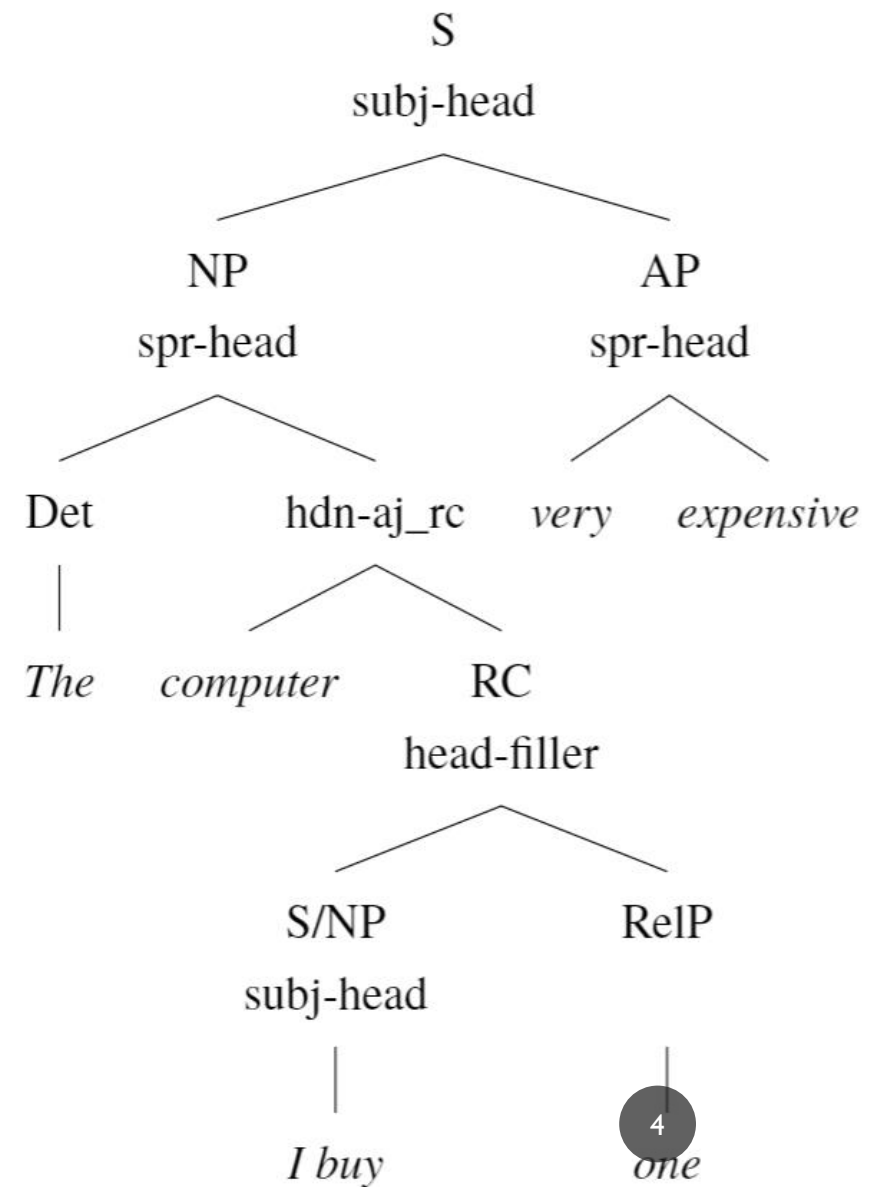
- Uses mainly English lexicon
- Influenced by languages in the region like Malay and Hokkien
- Mainly spoken or written in texting or as direct speech
- Syllable-timed with a bit of lexical tone
- Inflections are optional in many cases

# ONE

- “One” can act as a relative pronoun
- I. a) *The man talk very loud one got married.*  
“the man who talks very loud got married.”
- b) *The computer I buy one very expensive.*  
“The computer that I bought is very expensive.”

Overall sentence structure resembles English but relative clause structure similar to Chinese

我	买	的	电脑	很	贵
Wo	mai	de	dian nao	hen	gui
ISG	buy	RelP	computer	very	expensive



ONE

- “One” also functions as a nominalizer

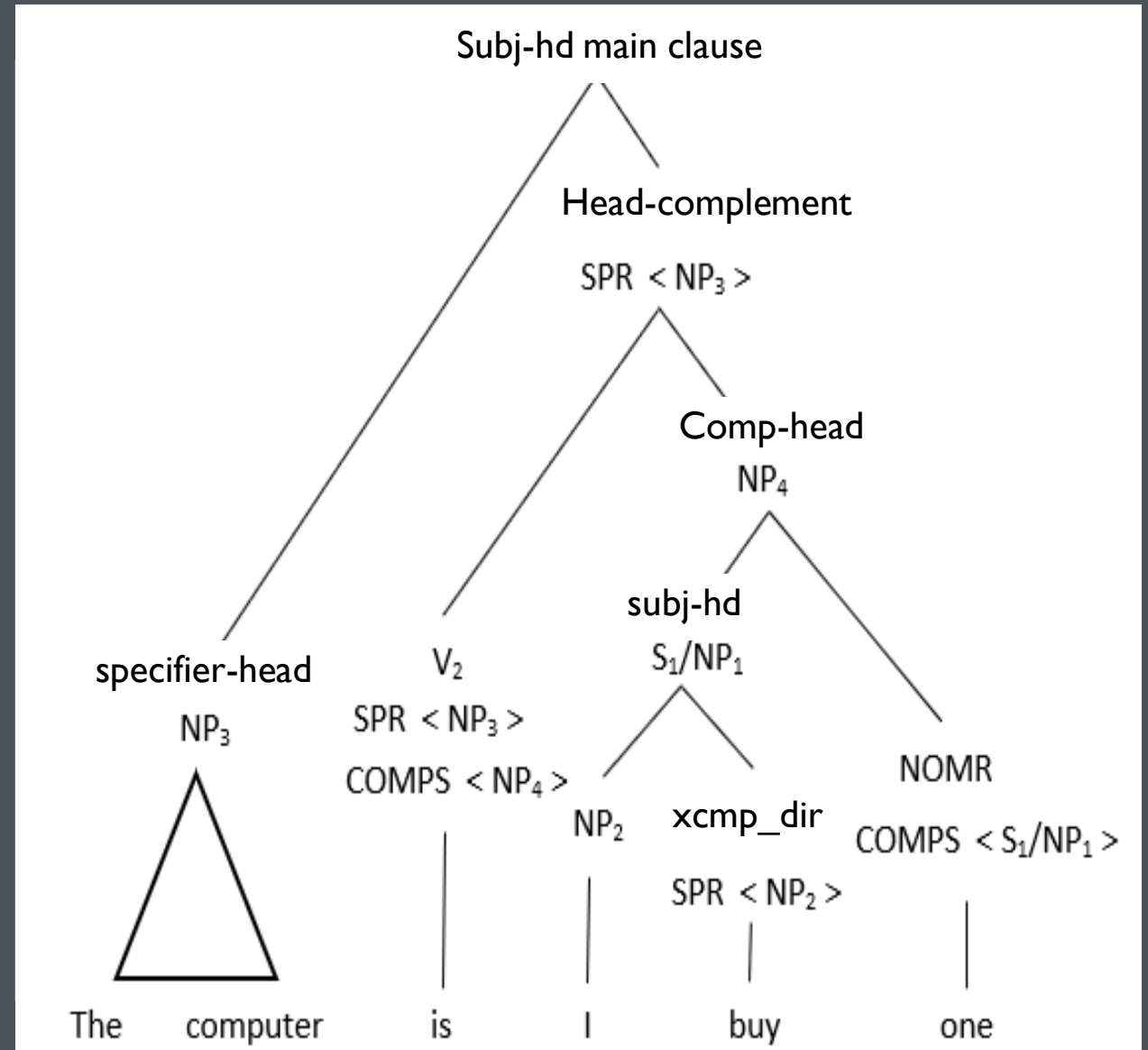
- 2. a) *The computer is I buy one.*

*“the computer is the one I bought.”*

- b) *The computer is (I) buy for him one.*

*“the computer is the one (I) bought for him.”*

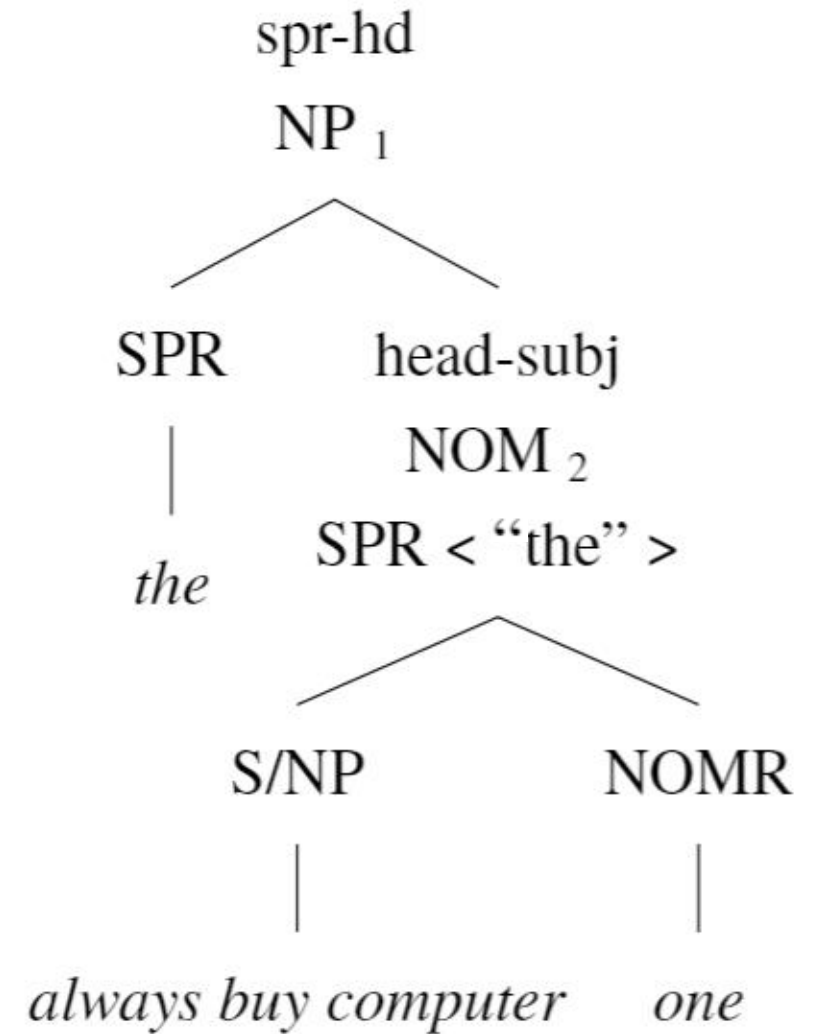
- c) *\*He is I buy the computer for one.*



# ONE

- Nominalizer: gapped subject
- 3. a) *\*the computer is always spoil one.*  
b) *The computer is the always spoil one.*  
“The computer is the one that always spoils”  
c) *He is the always buy computer one.*  
“He is the one who always buy computers.”

(must have a definite article)

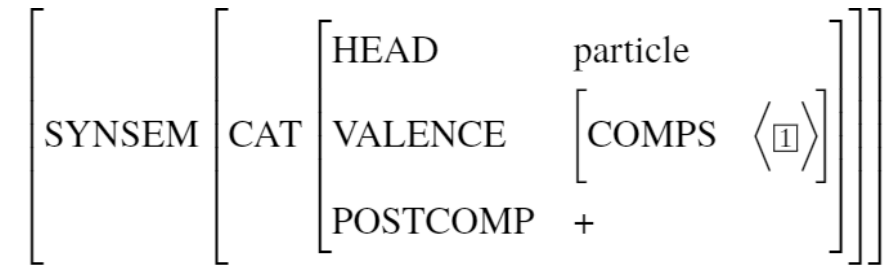


# PARTICLES

Sentence-final: *lah, lor, leh, ah, hah, leh, what, meh, sia, hor*

Have different functions ranging from conveying objection to changing the sentence force

Sentence final particles (SFP) take sentences as their complement and they unify with the complement-head rule.



# PARTICLES: EXAMPLE

ǎ (with a low tone)

4. a) *They going ǎ?*

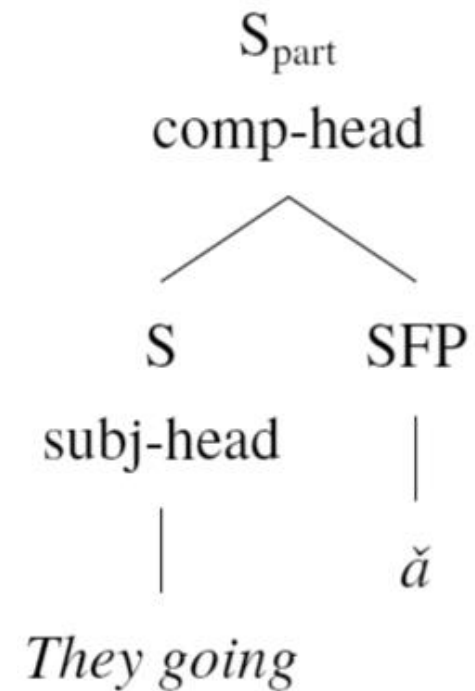
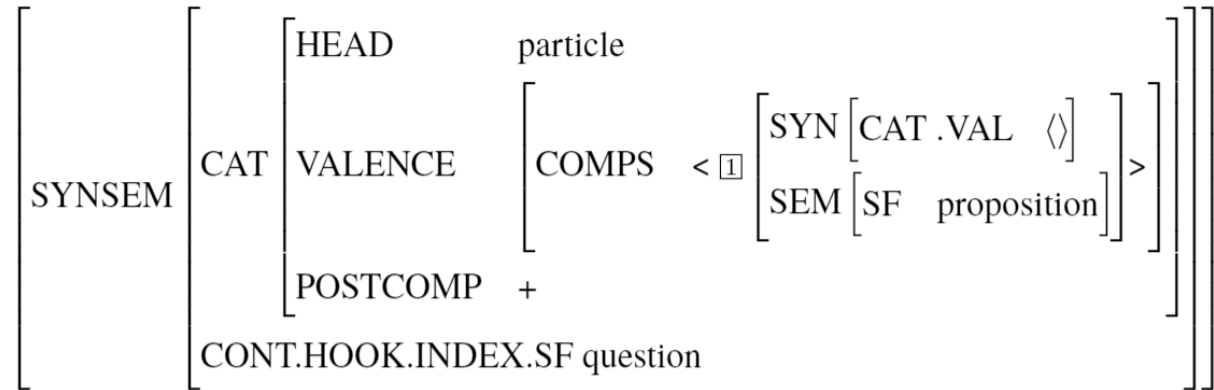
*“Are they going?”*

b) *\*Are they going ǎ?*

c) *\*Where are they going ǎ?*

d) *Go there ǎ?*

*“Do I/we go there?”*





## IMPERATIVE OR QUESTION

- 4. d) *Go there ě?*
- “go there” can be an S/NP or an imp\_phrase
- But the imperative SF is incompatible with ě which produces a question
- Need to create a type of phrase (similar to imp\_phrase)
  - but with HD-DTR SUB < PNG.PN I >
  - Cannot exist on its own (how?)

## PARTICLES: EXAMPLE

á (with a rising tone)

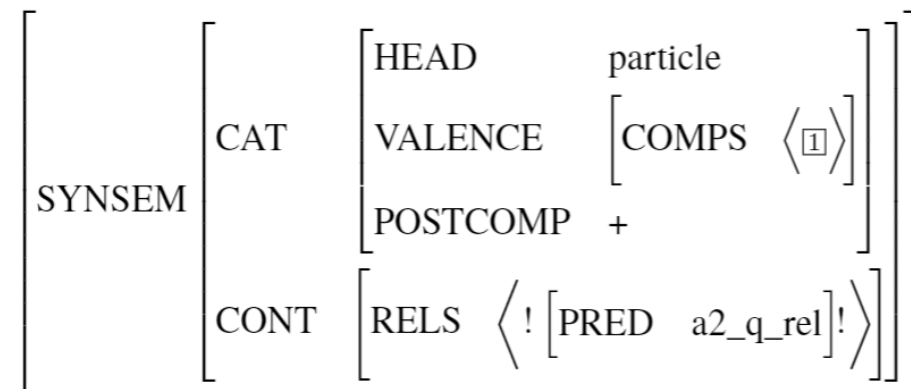
SEM: urging the other person to respond  
(what's the best way to represent this?)

5. a) *Are they going á?*

b) *Where are they going á?*

c) *Go there á.*

d) *I want to go there á.*

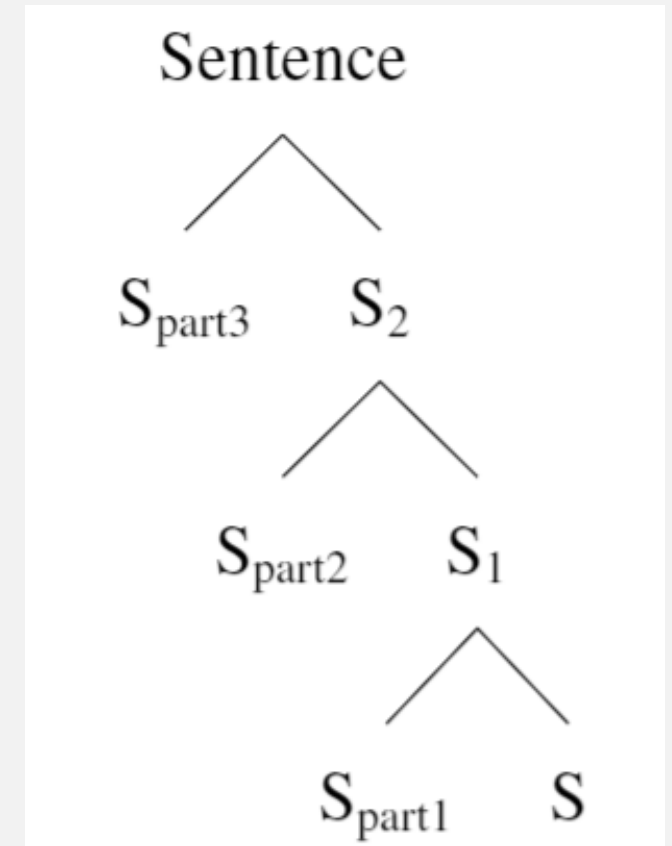


## ORDER OF PARTICLES

- Sentences can have multiple particles but only in certain combinations and orders
- 6. a) *It's not like that one á*  
b) *\*It's not like that á one*  
c) *It's not like that one lah háh*

## ORDER OF PARTICLES

- 3 categories of particles were made based on which positions they can take
- A phrase headed by particle\_type I would be labelled  $S_{part1}$  which has S as its non-head daughter
- $S_{part2}$  would have  $S_1$  (which could be a bare sentence S or  $S_{part1}$ ) as a its non-head daughter...



# ORDER OF PARTICLES

The particles would then inherit from their types as well to determine their order

Particle\_type1: *one*

Particle\_type2: *what, sia, lah, lor, lè, ă, meh, hòr*

Particle\_type3: *háh, hór, á, láh*

$$\left[ \begin{array}{l} S_{part1} \\ SYN \end{array} \left[ \begin{array}{l} HEAD \quad particle\_type1 \\ VAL \quad [COMPS \langle \rangle] \end{array} \right] \right] \Rightarrow \boxed{1} \left[ \begin{array}{l} SYN \end{array} \left[ \begin{array}{l} HEAD \quad verb \ or \ adj \\ VAL \quad \left[ \begin{array}{l} COMPS \langle \rangle \\ SUBJ \quad \langle \rangle \end{array} \right] \end{array} \right] \right] \mathbf{H} \left[ \begin{array}{l} particle\_type1 \\ COMPS \langle \boxed{1} \rangle \end{array} \right]$$

## OTHER FEATURES

- Copula/auxiliary omission
- 7. a) *I (am) tired already.*

ASP marker

b) *They (are) very pretty.*

c) *(?) They pretty.*

d) *They pretty sia.*

## OTHER FEATURES

- Solution:
  - to have two types of each particle: one to take S as COMPS and one to act as a SPR of AP
    - The particle would act like the adverb “so” or “very”
  - The AP would have to have a SPR before being able to head a sentence

## OTHER FEATURES

- Different order affects use of particles (work in progress)
- 8. a) *\*Tired that girl*  
b) *Tired sia that girl*  
c) *\*Very tired that girl*  
d) *\*Tired already that girl sia*  
e) *Tired already sia that girl*
- Re-ordering can only take place when there is a POSTHD specifier for AP



# CONCLUSION

“one”

RelP: using head-filler rule and POSTCOMP +

Nominalizer:

Obj using head-filler and introducing generic noun

Subj using head-subj (**is this a good method?**)

Particles

Form Spart with sentences using comp-head rule

Three groups to determine order

Other features

Copula omission (only possible when AP is specified)

Sentence order (SFP only able to take S in regular order)

THANK  
YOU

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