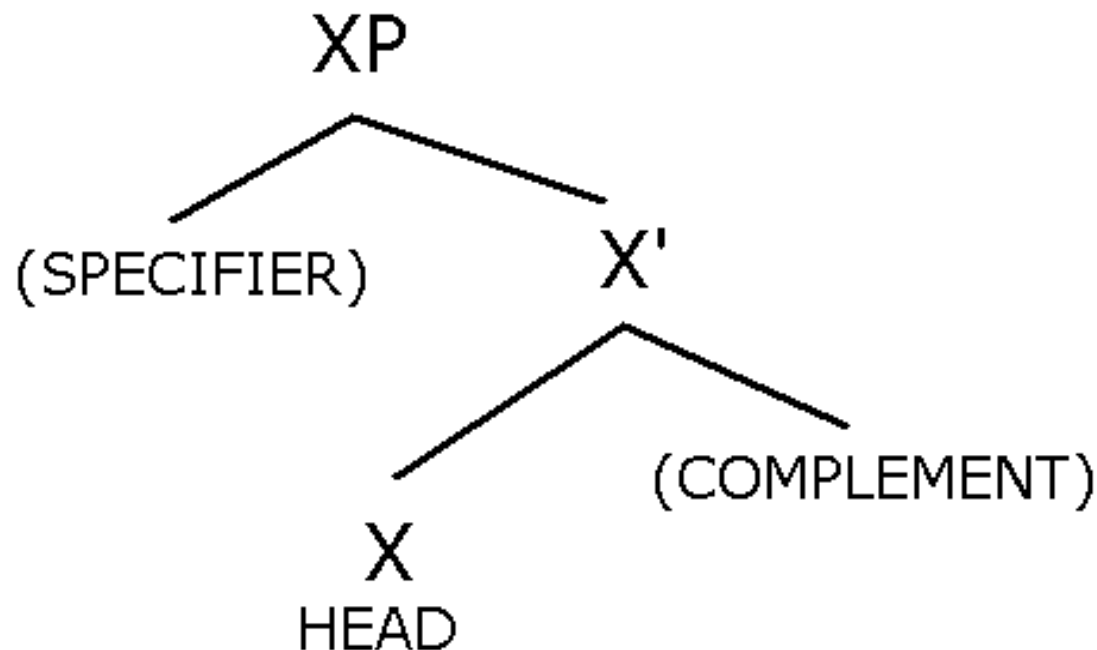


- **Answers to practice X' trees**

Reminder: The X' (read “X-bar”) schema

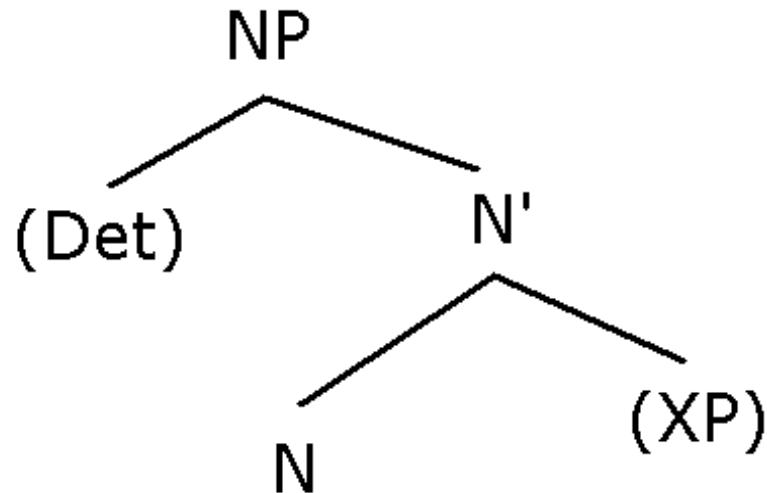
- The **X' schema** is a blueprint for sentence structure in our model of mental grammar



- An element in parentheses (...) is **optional**

Practice building NPs

- **NP:**



- Some examples to try
rabbits
these rabbits
the child's rabbits

Practice building NPs

- Remember: Identify all word categories first

rabbits

these rabbits

Practice building NPs

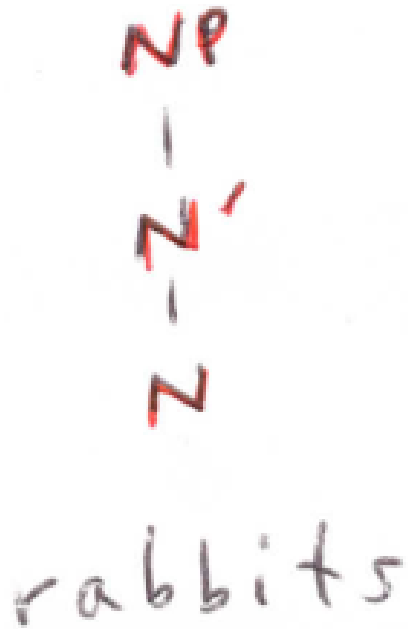
- Every N will project an N' and NP

^N
rabbits

Det ^N
these rabbits

Practice building NPs

- Det is a possible specifier for NP



Practice building NPs

- Identify all word categories first

the child's rabbits

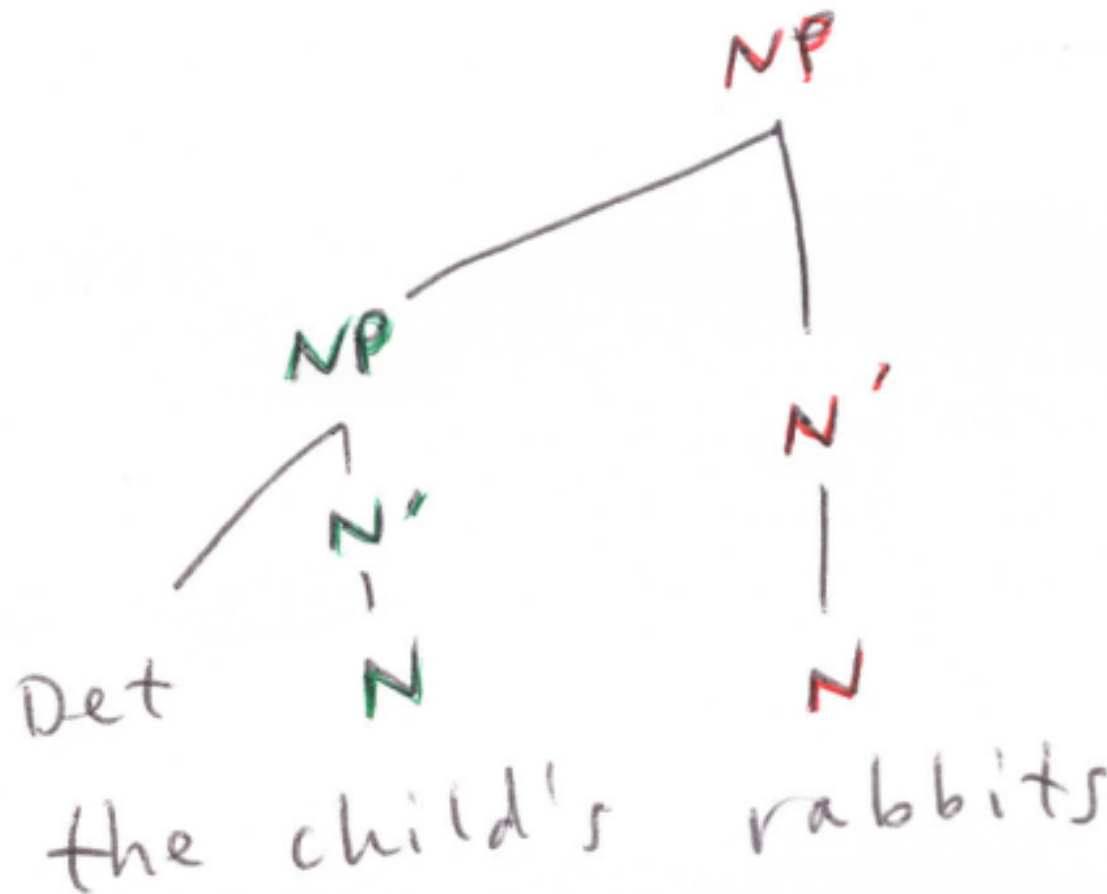
Practice building NPs

- There are two Ns here, so we must build two NPs

Det N N
the child's rabbits

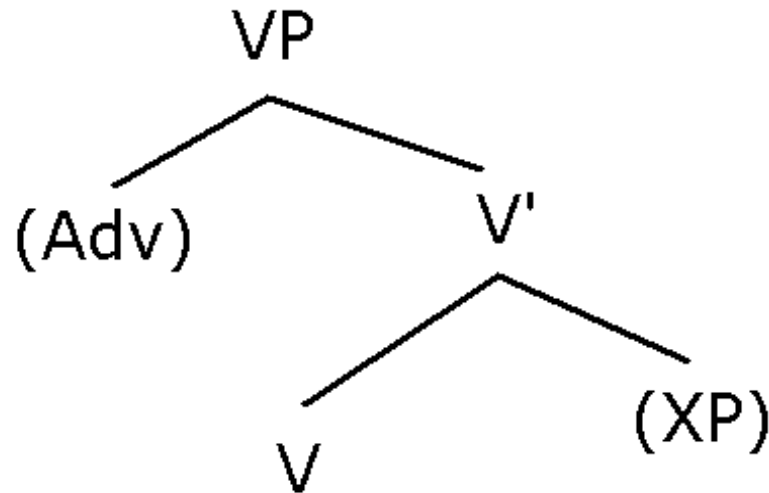
Practice building NPs

- Possessors are NPs that are specifiers of NPs



Practice building VPs

- **VP:**



- Adv = adverb (*always, never, happily, etc.*)
- Some examples to try
 - (Oscar) yawned*
 - (Grover) always smiles*
 - (Susan) read a book*
 - (Ernie) usually annoys Bert*

Practice building VPs

- Identify all word categories first

(oscar) yawned (grover) always smiles

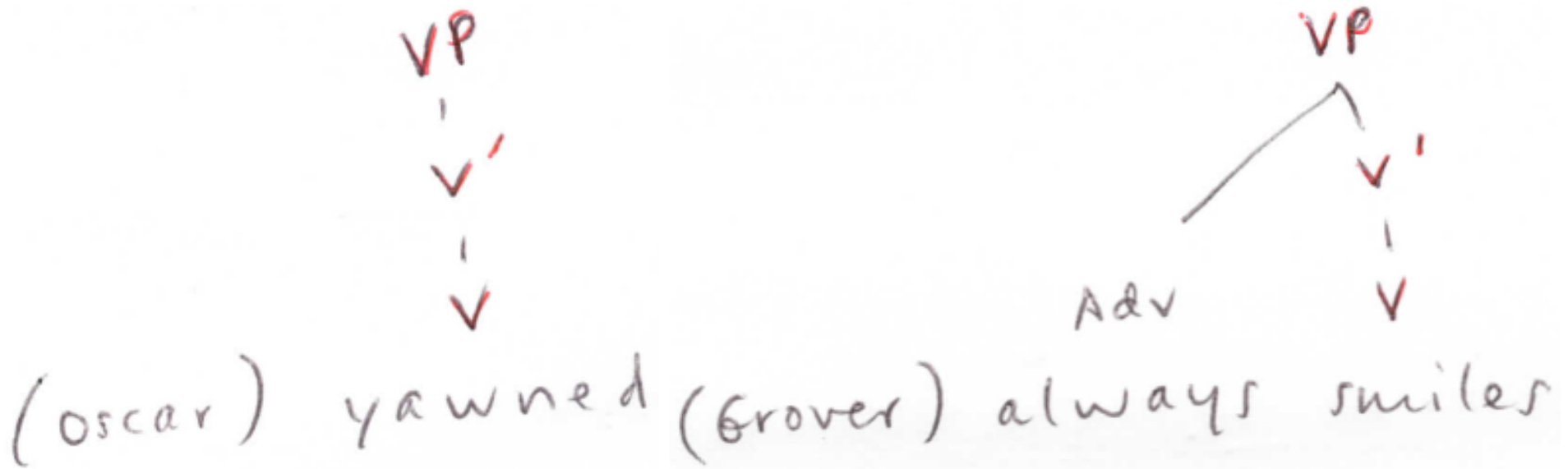
Practice building VPs

- Look for possible specifiers and complements

(oscar) ^Vyawned (Grover) ^{Adv}always ^Vsmiles

Practice building VPs

- Adv is a possible specifier for VP



Practice building VPs

- Identify all word categories first

(susan) read a book (ernie) usually annoys Bert

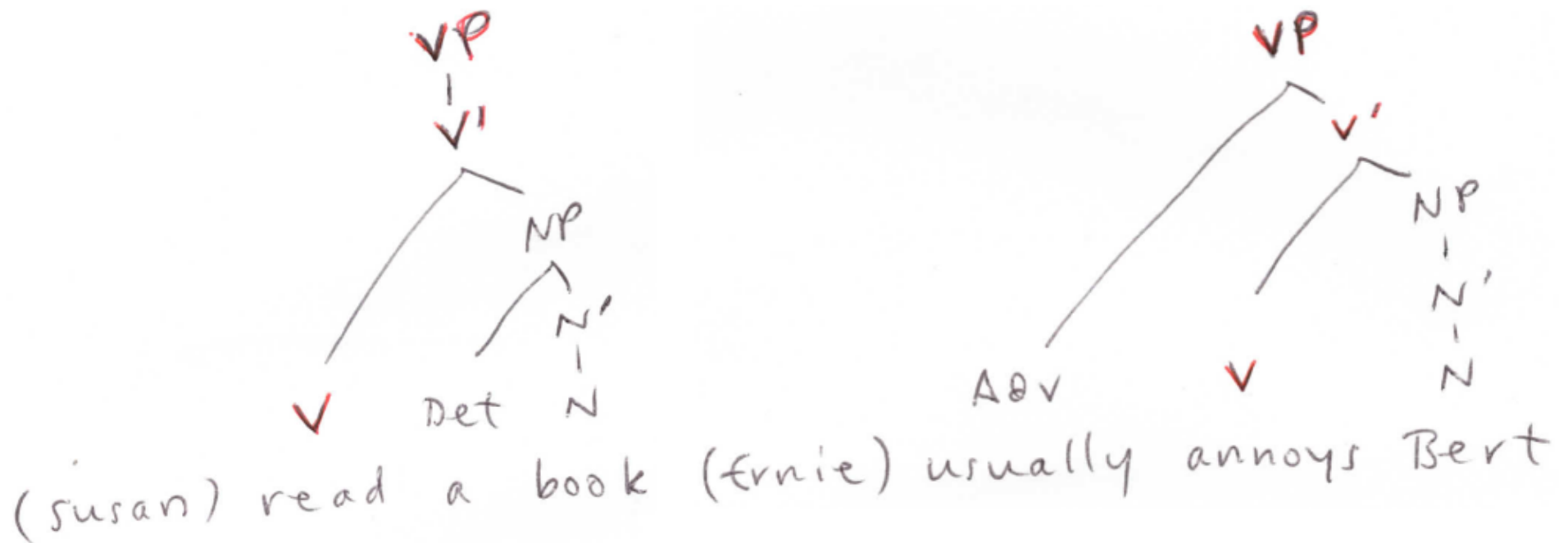
Practice building VPs

- Look for possible specifiers and complements

(susan) [✓] read ^{Det} a ^N book (ernie) ^{Adv} usually [✓] annoys ^N Bert

Practice building VPs

- Direct objects are NP complements of VP

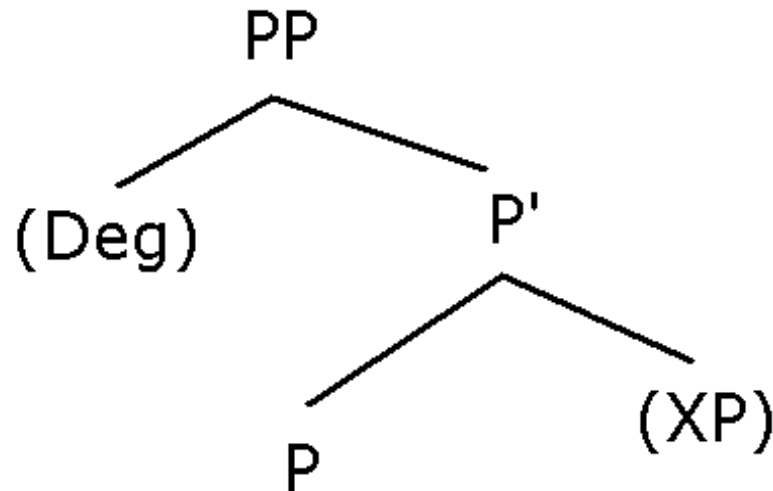


Remember: *Bert* must be an NP, not just an N

- All Ns project NPs
- Complements are phrases, not words

Practice building PPs

- **PP:**



- Deg = degree word (*right*, certain adverbs)
- Some examples to try
 - (Oscar went) out*
 - (Susan put the basketball) right in*
 - (a book) about rabbits*
 - (a liking) for truffles from France*

Practice building PPs

- Identify all word categories first

(Oscar went) out (Susan put the b.ball) right in

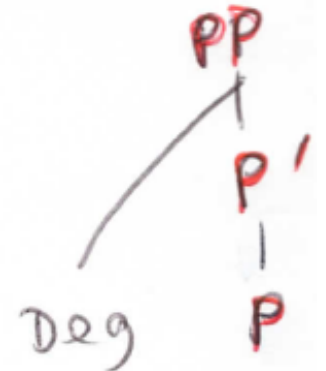
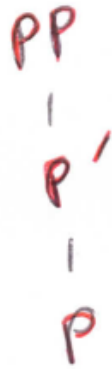
Practice building PPs

- Look for possible specifiers and complements

(Oscar went) ^P out (Susan put the b.ball) ^{Deg} right ^P in

Practice building PPs

- Remember: Complement is optional for PP!



(Oscar went) out (Susan put the b.ball) right in

Practice building PPs

- Identify all word categories first

(a book) about rabbits

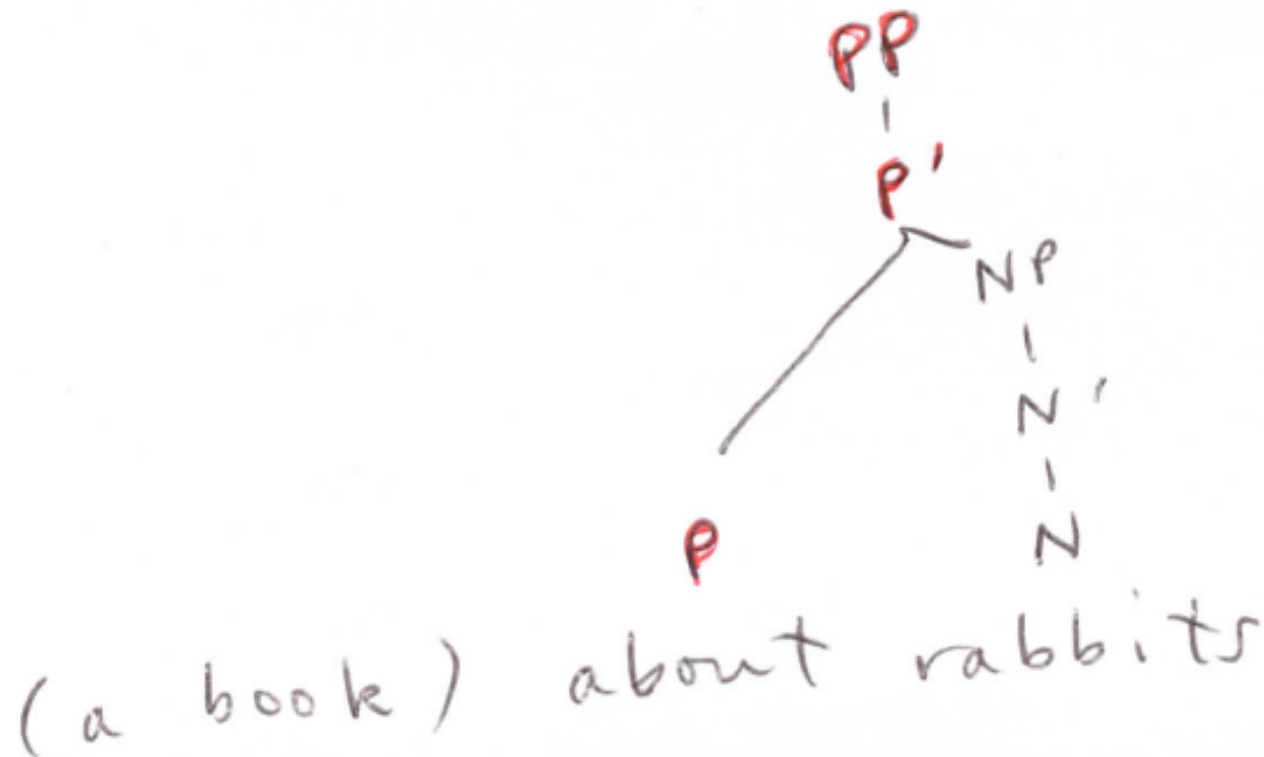
Practice building PPs

- Look for possible specifiers and complements

(a book) ^Pabout ^Nrabbits

Practice building PPs

- Prepositional objects are NP complements of PP



- Remember that *rabbits* has to be an NP!

Practice building PPs

- What should we do first?

(a liking) for truffles from France

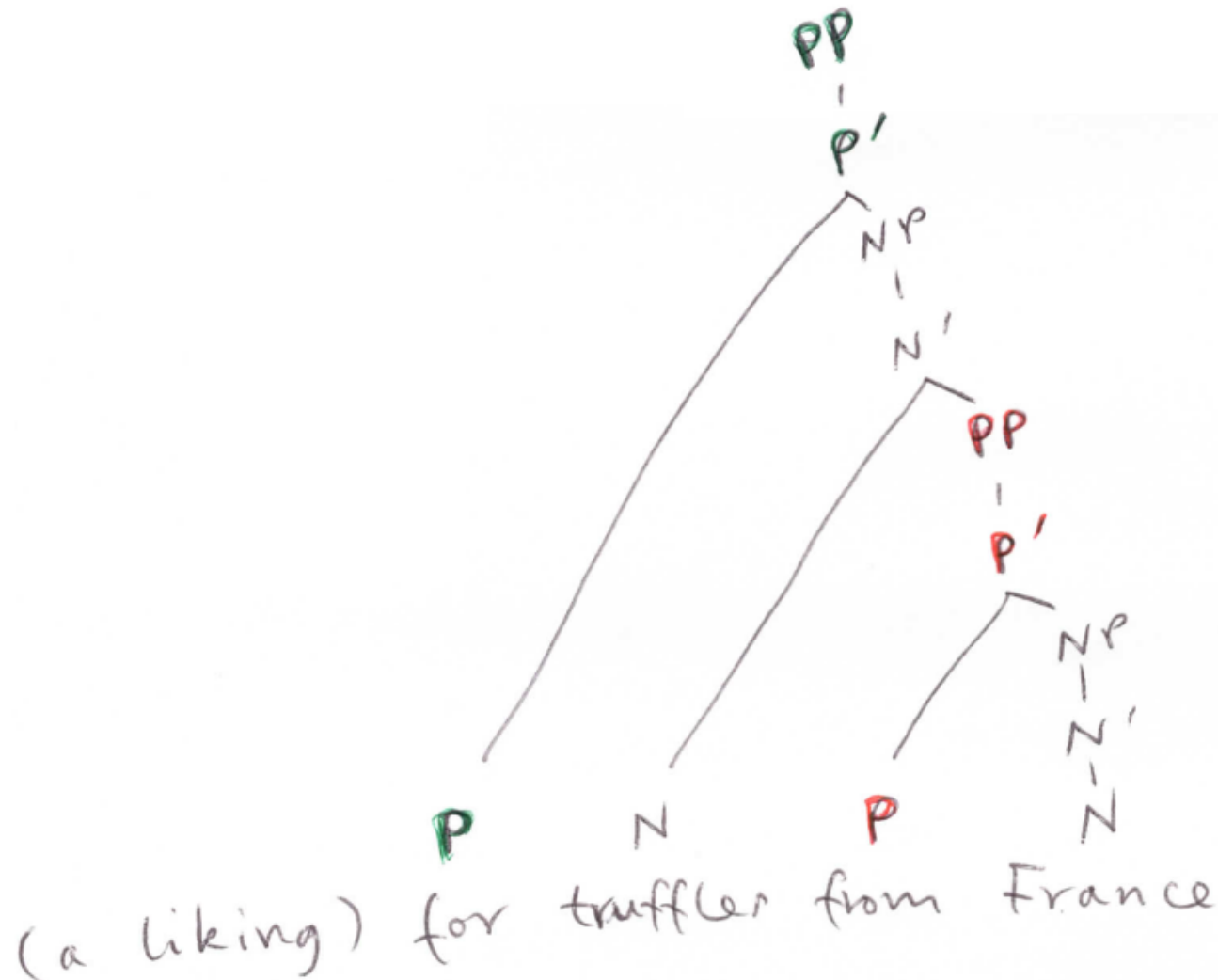
Practice building PPs

- It is often helpful to work from the right side

(a liking) ^P for ^N truffle ^P from ^N France

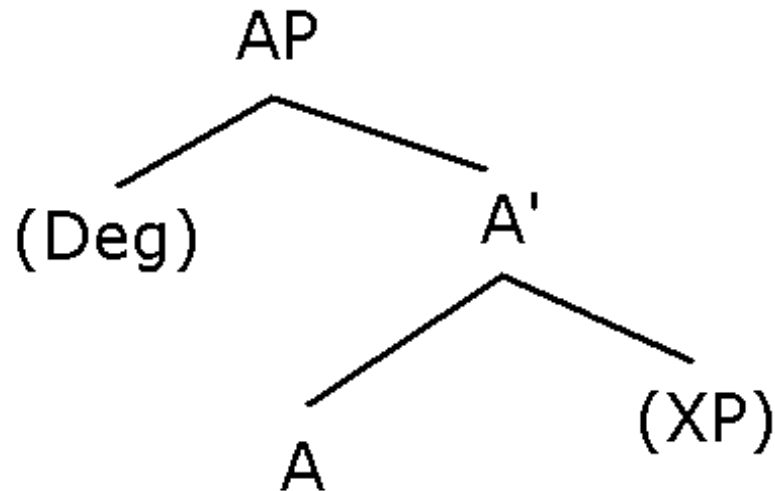
Practice building PPs

- Note how *from France* is about *truffles* here



Practice building APs

- **AP:**



- Some examples to try
happy
very angry
pleased with the results
fond of her dog

Practice building APs

- What should we do first?

happy

very angry

Practice building APs

- What should we look for now?

A
happy

Deq
very

A
angry

Practice building APs

- Deg is a possible specifier for AP



Practice building APs

- What should we do first?

pleased with the results

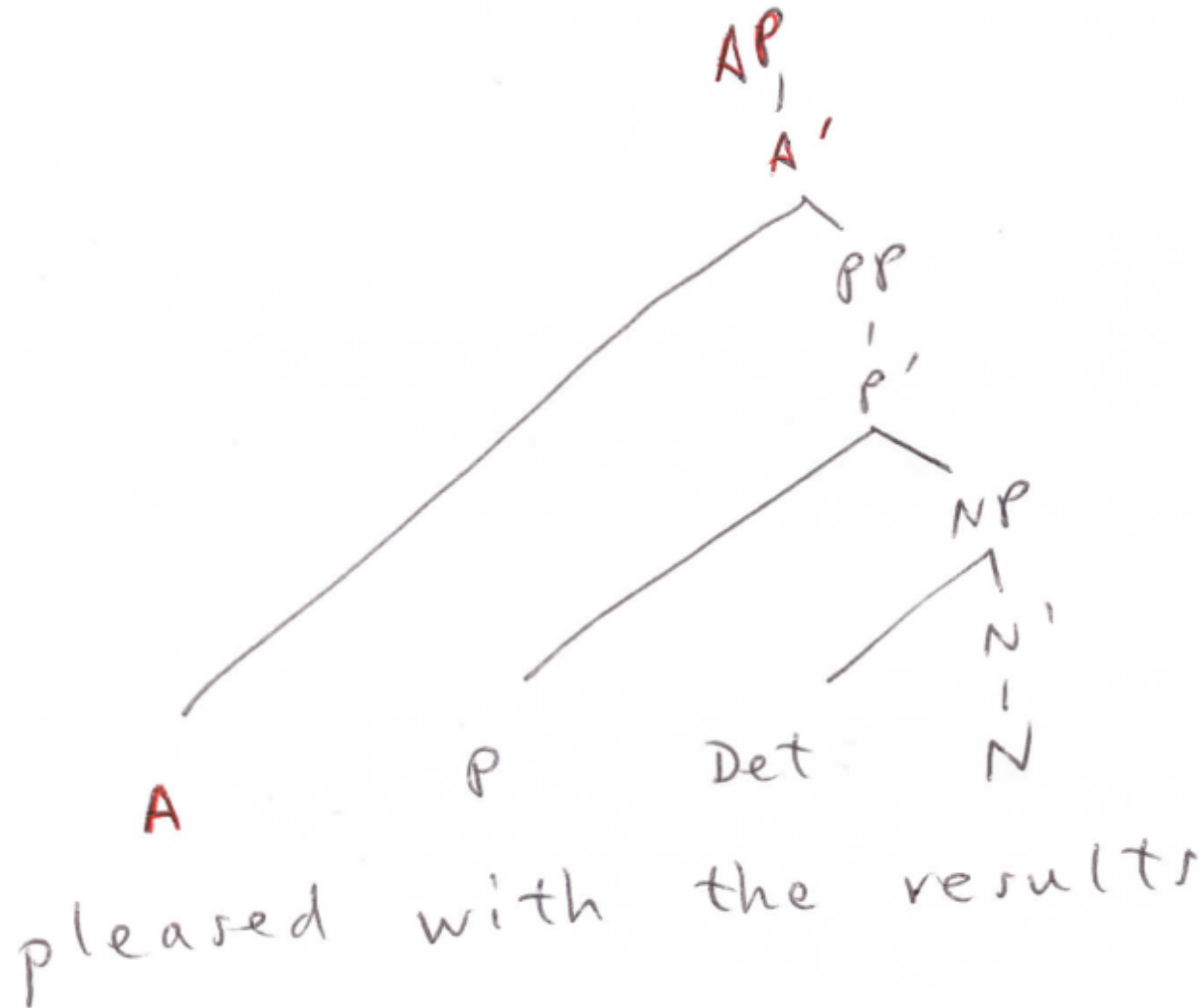
Practice building APs

- Working from the right side will help here

A P Det N
pleased with the results

Practice building APs

- When AP has a complement, it's usually a PP



Practice building APs

- What should we do first?

fond of her dog

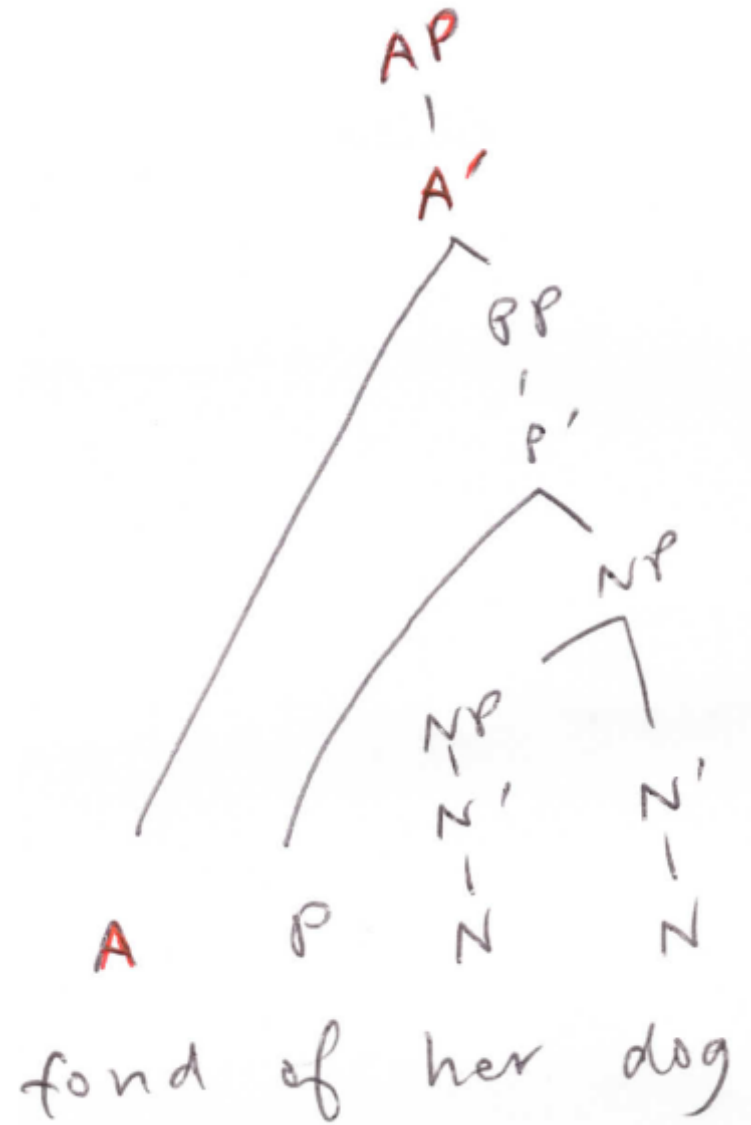
Practice building APs

- What should we do next?

A P N N
fond of her dog

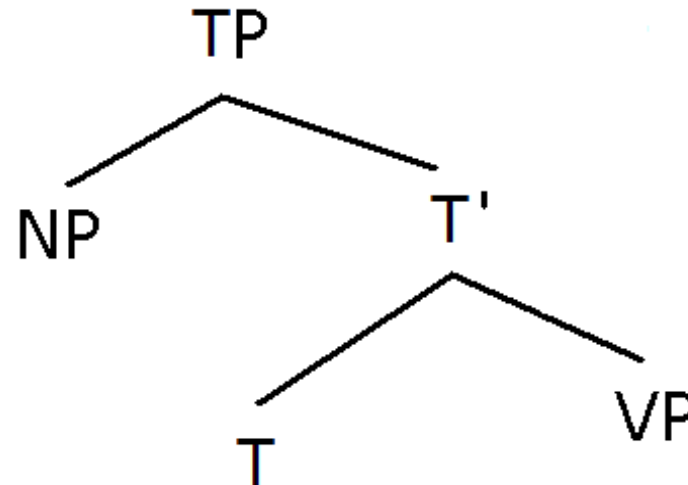
Practice building APs

- Watch out for the possessive!



Practice building TPs

- Sentence = **TP**:



- Some examples to try

Oscar snores

This book is expensive [see slides, M Sept 21]

Ernie usually annoys Bert

Susan likes truffles from France

My friend might sometimes play the oboe

Practice building TPs

- Can we identify the **subject** and **predicate**?

Oscar snores

Practice building TPs

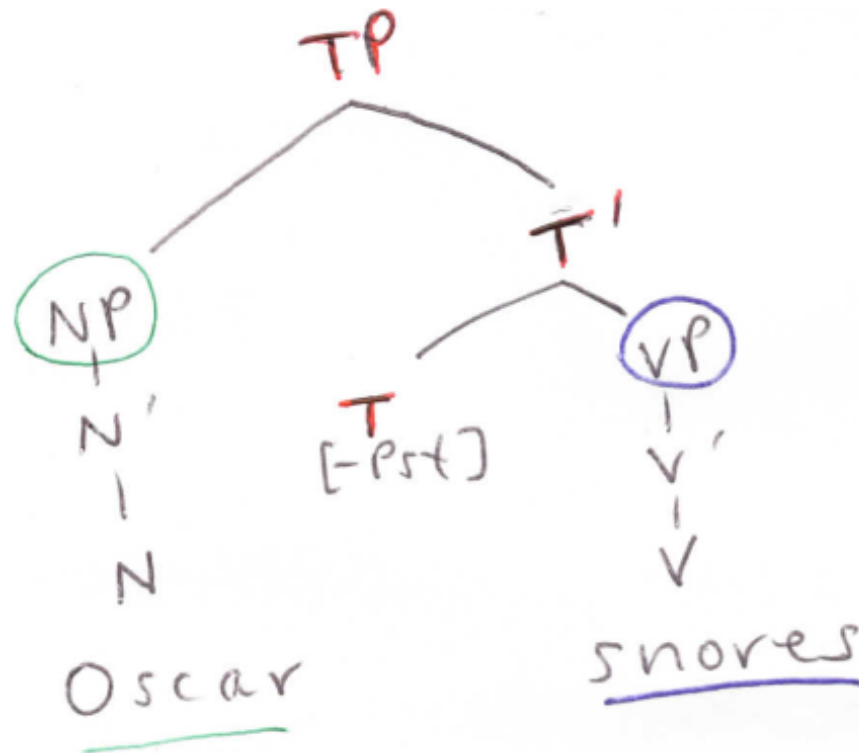
- **Subject** will be **NP**, **predicate** will be **VP**

N
Oscar

V
snores

Practice building TPs

- **Subject** will be **NP**, **predicate** will be **VP**



- **Head** of TP is **T** — if there is no modal auxiliary (as here), T contains a tense feature

Practice building TPs

- Can we identify the **subject** and **predicate**?

Ernie usually annoys Bert

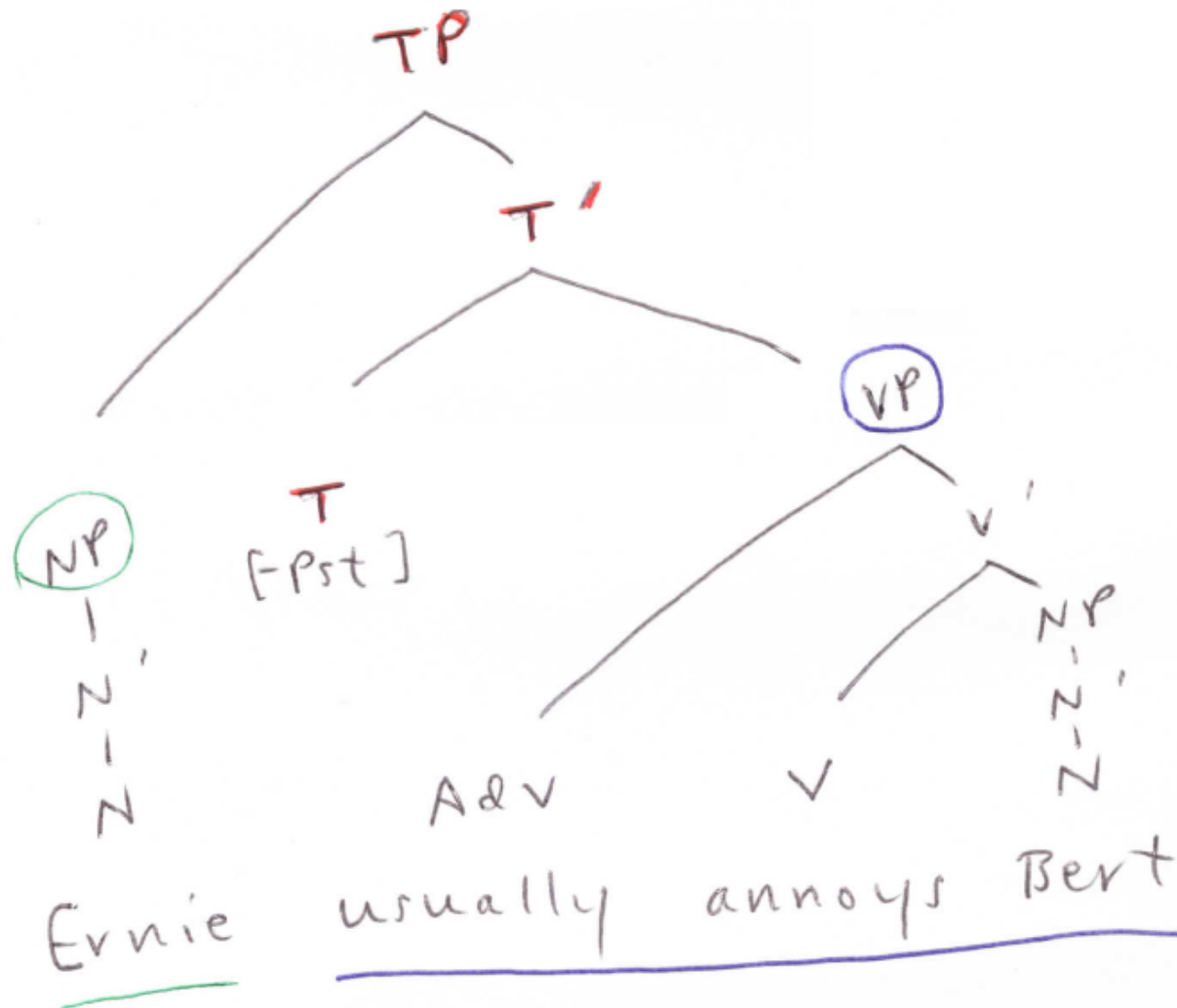
Practice building TPs

- **Subject** will be **NP**, **predicate** will be **VP**

N Adv V N
Ernie usually annoys Bert

Practice building TPs

- Remember to check that *all* words are in the TP!



Practice building TPs

- Try it!

susan likes truffler from France

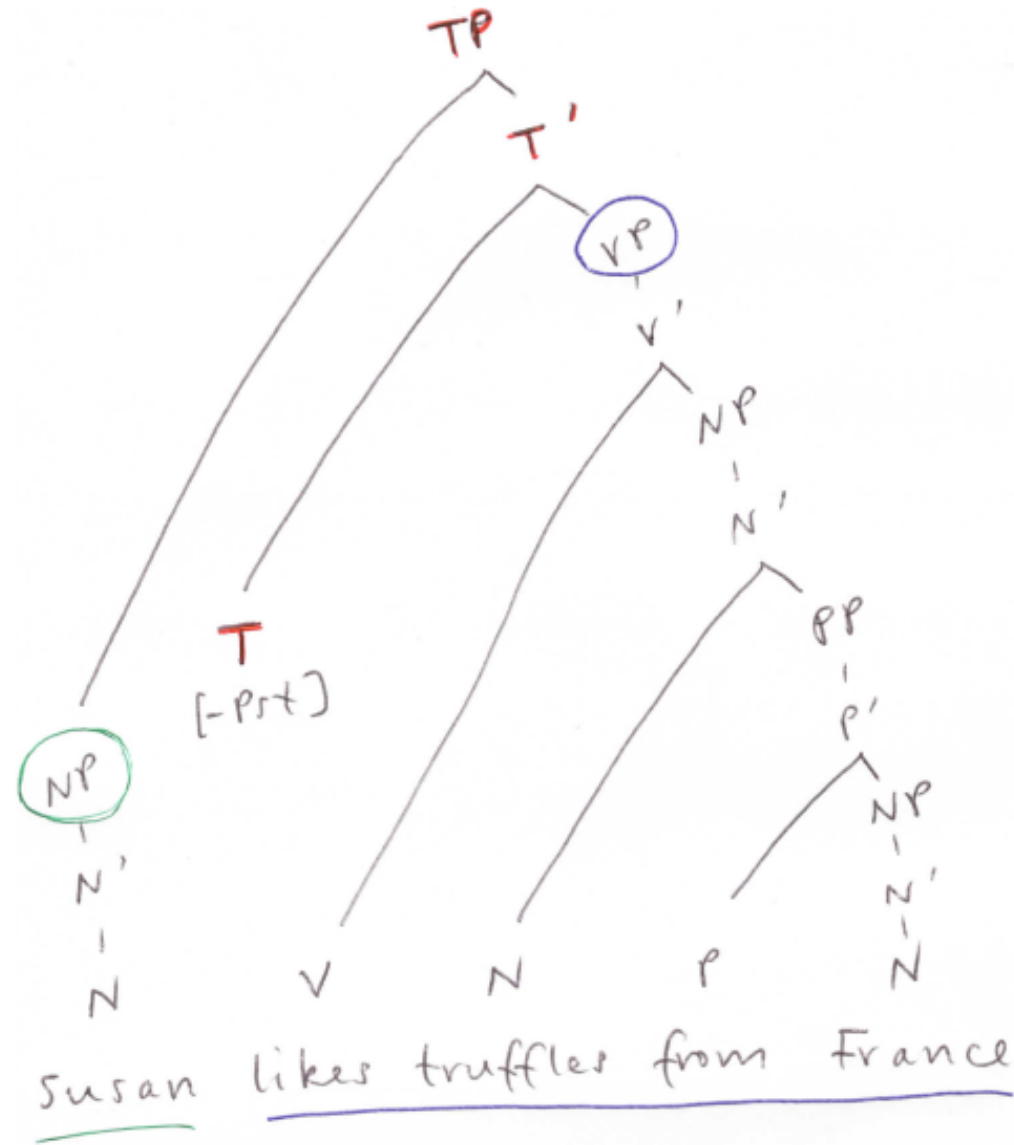
Practice building TPs

- Try it!

N V N P N
Susan likes truffles from France

Practice building TPs

- Try it!



Practice building TPs

- What is the word category of *might*?

My friend might sometimes play the oboe

Practice building TPs

- Now find subject and predicate, and build the TP

N	N	T	Adv	V	Det	N
<i>My</i>	<i>friend</i>	<i>might</i>	<i>sometimes</i>	<i>play</i>	<i>the</i>	<i>oboe</i>

Practice building TPs

- This time we have a word in the T position

