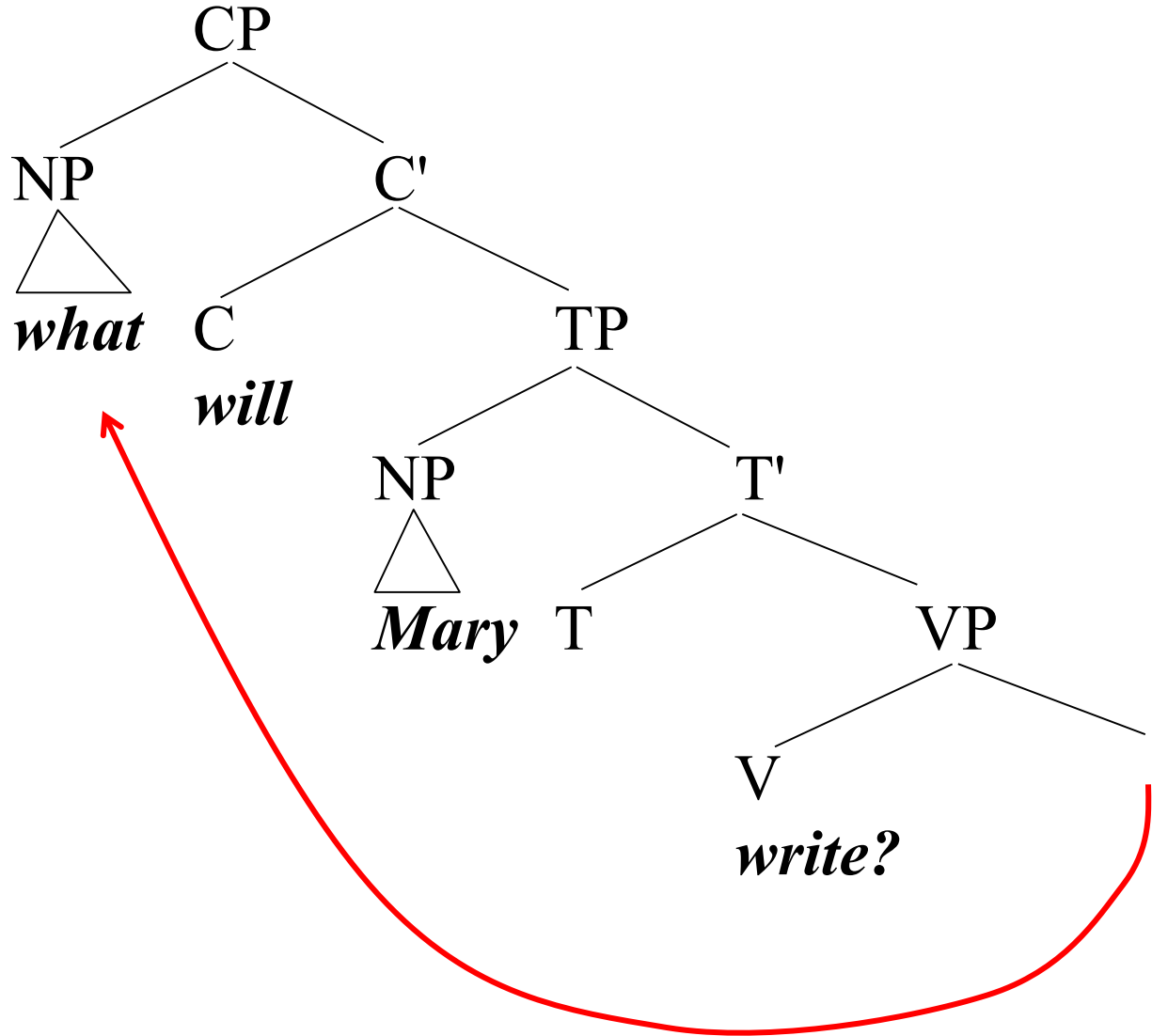


Syntax 5



wh-movement

↓
What did you put ___ on the table?

↓
Ano ang inilagay mo ___ sa lamesa? [*Tagalog*]
what put you on table

↓
Mihin panen vaatteeni ___ ? [*Finnish*]
where I.put my.clothes

wh-in-situ

Zhangsan mai-le sheme?
Zhangsan bought what
'What did Zhangsan buy?'

[*Chinese*]

Suu ki yuu akə?
Suu TNS buy what
'What did Suu buy?'


[*Bafut*]

Ya um hakiy tuwa?
Q you who-ACC found
'Who did you find?'

[*Hopi*]

rightward wh-movement: unattested?

___ häs ēāṭēñ thē çøøkiêş whö? [no language ever]



...easy to imagine, but may not exist...

rightward wh-movement: unattested?

To make this fact more interesting, let me first show you one other kind of cross-linguistic variation in wh-movement.

rightward wh-movement: unattested?

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rightward wh-movement: unattested?

There are languages in which wh-movement always involves some kind of *cleft* construction. It's as though you have to say:

What is the one that you bought?

instead of:

What did you buy?

rightward wh-movement: unattested?

There are languages in which wh-movement always involves some kind of *cleft* construction. It's as though you have to say:

What is the one that you bought?

e.g., Tagalog:

Ano ang binili mo?

what the bought you

‘What did you buy?’

(more literally, “What was the (one) that you bought?”)

rightward wh-movement: unattested?

Now, imagine what a language would be like if it had clefting for its wh-questions, *and* wh-in-situ:

The one you bought was what?

The one that ate the meat was who?

rightward wh-movement: unattested?

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→ wh-words at the end of the sentence, not because of ‘rightward wh-movement’, but because of an in-situ clefting strategy.

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Now, imagine what a language would be like if it had clefting for its wh-questions, *and* wh-in-situ:

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→ wh-words at the end of the sentence, not because of ‘rightward wh-movement’, but because of an in-situ clefting strategy.

Kabardian:

l'ə-r q'a-z-šx̂^wə-ay-r x̂ət-r

meat the.one.who.ate is.who → ‘who ate the meat?’

rightward wh-movement: unattested?

Language universal: there is no true wh-movement to the right (though there is wh-in-situ combined with obligatory clefting...)

multiple-wh

What did you give ___ to whom?

multiple-wh

What did you give ___ to whom?

Kakvo na kogo e dal ___ ___?
what to whom he-gave

[*Bulgarian*]

Takhróri úhka nahóta ___ wa'ehnínu' ___
tell-me who what bought
'Tell me who bought what.'

[*Mohawk*]

unattested?

- movement of up to two wh-phrases

who what ___ gave ___ to whom?

A diagram illustrating the movement of two wh-phrases. A horizontal line is drawn above the words 'who what' and 'to whom?'. A curved arrow starts from the right side of this line, above 'to whom?', and points left towards 'who what'. A second arrow starts from the left side of the line, above 'who what', and points left towards the left edge of the line.

Logical problem of language acquisition

$$f(1)=1$$

$$f(2)=2$$

$$f(3)=3$$

$$f(4)=4$$

$$f(5)=??$$

Logical problem of language acquisition

$$f(1)=1$$

$$f(2)=2$$

$$f(3)=3$$

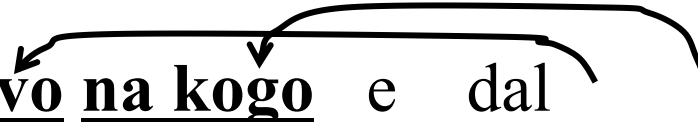
$$f(4)=4$$

$$f(5)=\underline{29}$$

$$f(n)=(n-1)(n-2)(n-3)(n-4) + n$$

acquisition of wh-strategies

Kakvo na kogo e dal ___ ___?



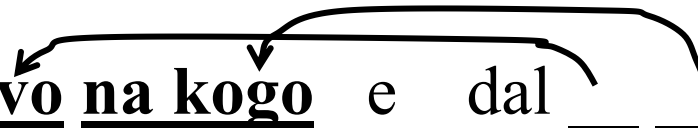
what to whom he-gave

'What did he give to whom?'

[*Bulgarian*]

acquisition of wh-strategies

Kakvo na kogo e dal ___ ___ ?



what to whom he-gave

'What did he give to whom?'

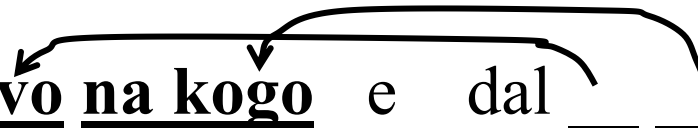
[*Bulgarian*]

- move all wh-phrases?
- move two wh-phrases?
- move up to three wh-phrases?
- move up to four wh-phrases?

...

acquisition of wh-strategies

Kakvo na kogo e dal ___ ___ ?



what to whom he-gave

'What did he give to whom?'

[*Bulgarian*]

- move all wh-phrases
- move two wh-phrases?
- move up to three wh-phrases?
- move up to four wh-phrases?

...

acquisition of wh-strategies

Zhangsan mai-le sheme?

[*Chinese*]

Zhangsan bought what

‘What did Zhangsan buy?’

acquisition of wh-strategies

Zhangsan mai-le sheme?

[*Chinese*]

Zhangsan bought what

‘What did Zhangsan buy?’

- wh-in-situ?
- move wh-phrase to the right?
- make wh-phrase the third word?

....

acquisition of wh-strategies

Zhangsan mai-le shenmo?

[*Chinese*]

Zhangsan bought what

‘What did Zhangsan buy?’

- wh-in-situ
- ~~move wh-phrase to the right?~~
- ~~make wh-phrase the third word?~~

....

projection principle revisited:

The phrase(s) selected by a head must be its sister(s).

I devoured the kumquats

I put the kumquats in a bowl

*He fainted the idea

*He devoured

What happens when a head doesn't select for a sister?

....well, then it doesn't have a sister.

He fainted.

Notice, however, that there's nothing comparable in subject position.

*Rained.

It rained.

Notice, however, that there's nothing comparable in subject position.

*Rained.

It rained.

*Seems that John has died.

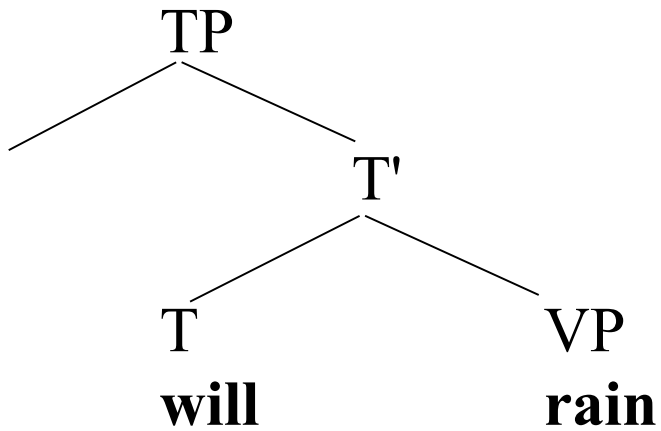
It seems that John has died.

These its don't seem to be ordinary ones...

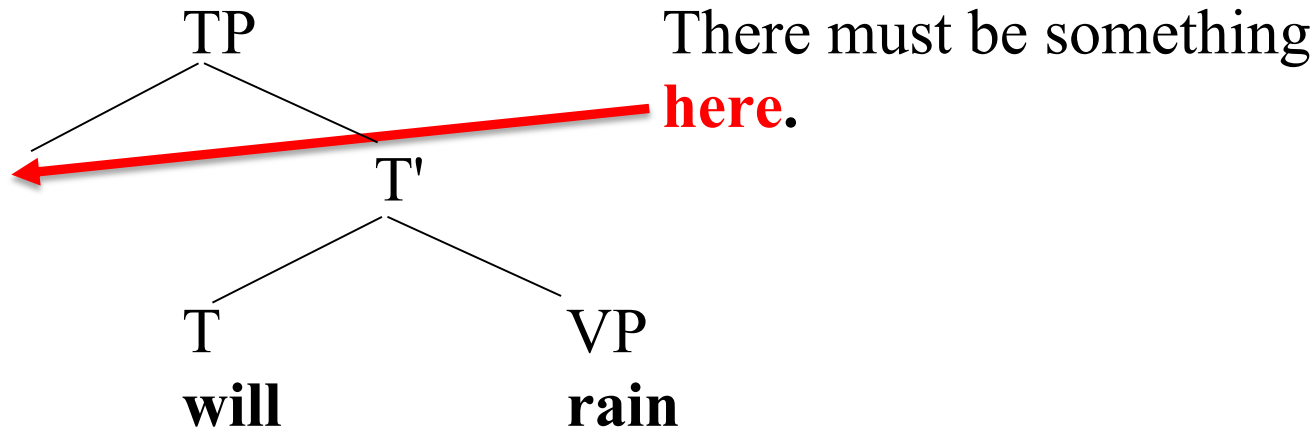
It squeezed John.

It seems that John has died.

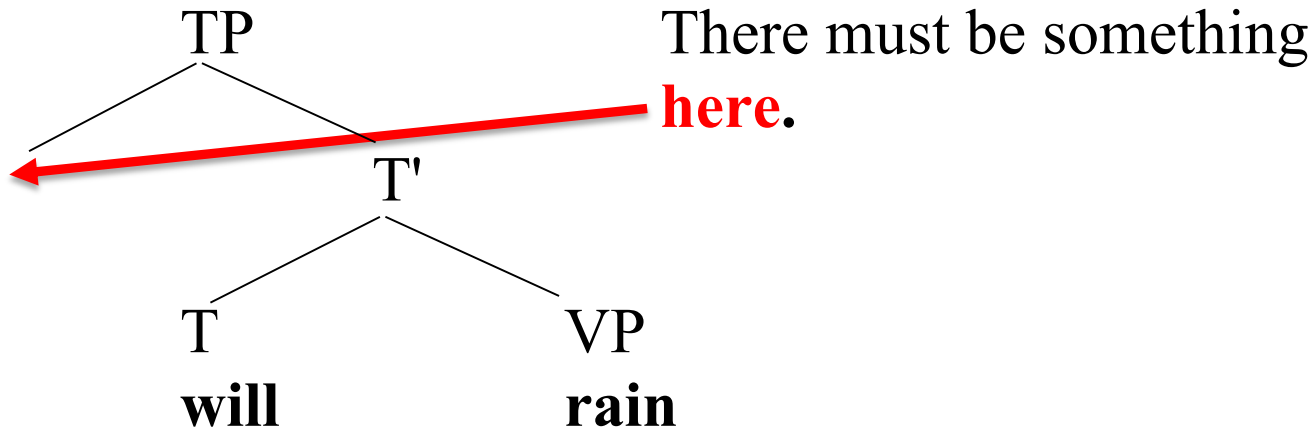
Extended projection principle:



Extended projection principle:



Extended projection principle:



"Specifier of TP"

(daughter of maximal projection, not (necessarily?) selected)

(...if there's nothing else to satisfy the Extended Projection Principle with, you can insert an **expletive** like **it**--which doesn't mean anything, but allows you to satisfy the EPP)

Another use for the Extended Projection Principle?

The snake squeezed John.
John was squeezed.

I put the kumquats in a bowl.
The kumquats were put in a bowl.

Another use for the Extended Projection Principle?

The snake squeezed John.
John was squeezed.

I put the kumquats in a bowl.
The kumquats were put in a bowl.

-->same reasoning that prompted us to posit wh-movement leads us to suspect movement here...

start:

was squeezed John

EPP forces movement:

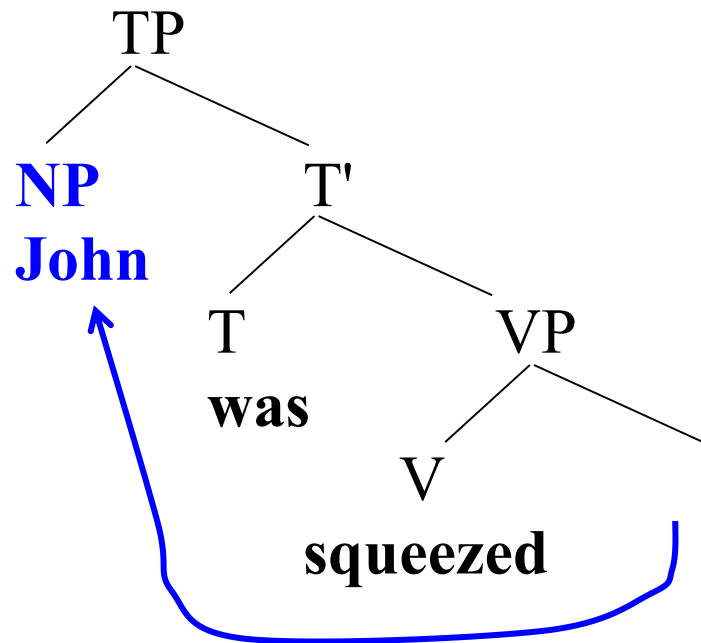
was squeezed **John**

finish:

John was squeezed

NP-movement:

a new kind of movement, driven by the EPP.



NP-movement:

a new kind of movement, driven by the EPP.

another instance of NP-movement:

It seems [that John is sick]

John seems ___ to be sick

another argument for NP-movement: idioms

- lots of V-XP idioms:

kick the bucket

'die'

buy the farm

'die'

spill the beans

'reveal a secret'

yawn in Technicolor

'vomit'

- ...but there are no XP-V idioms:

**the armadillo bit...*

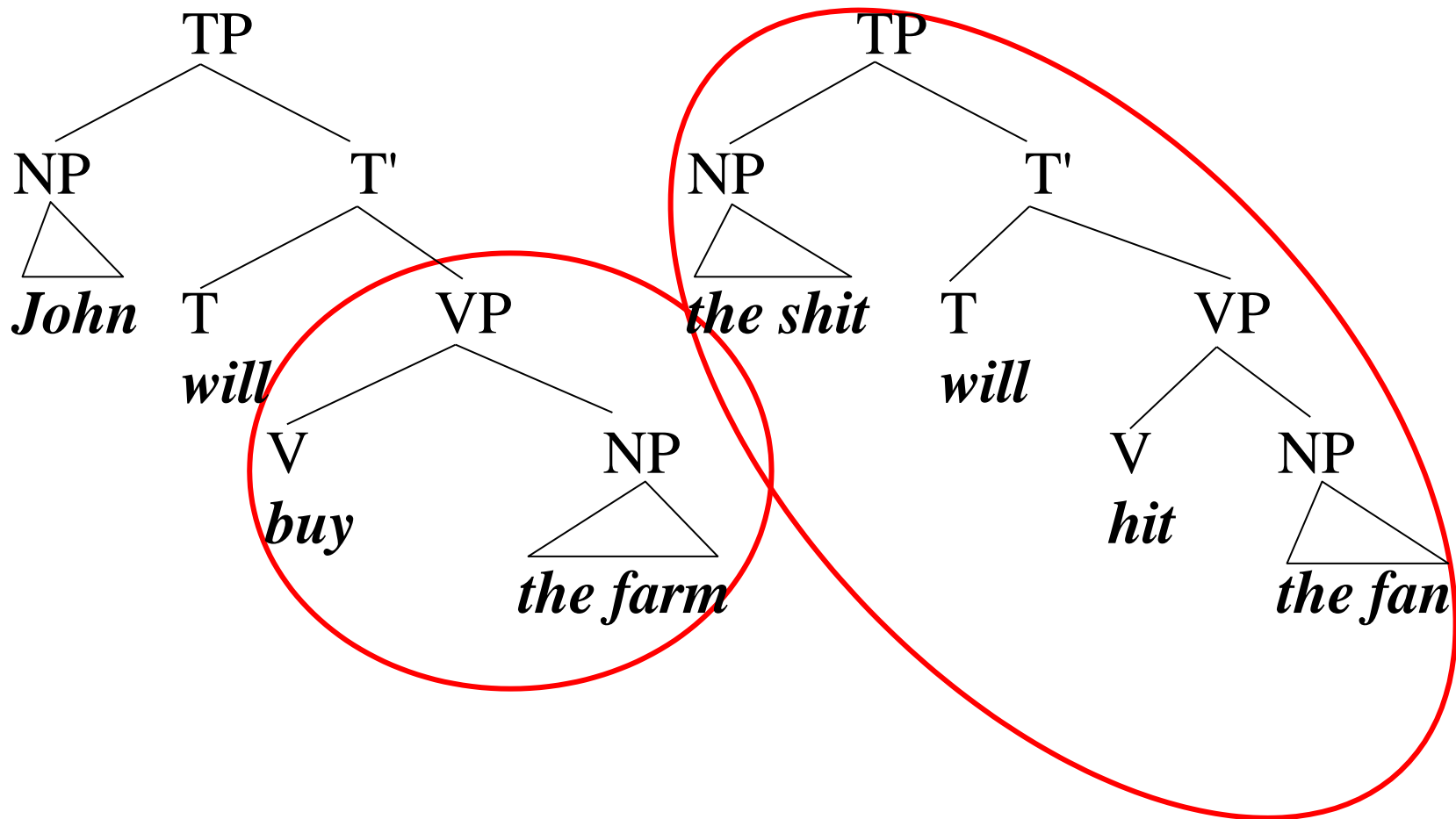
- ...but there are no XP-V idioms:

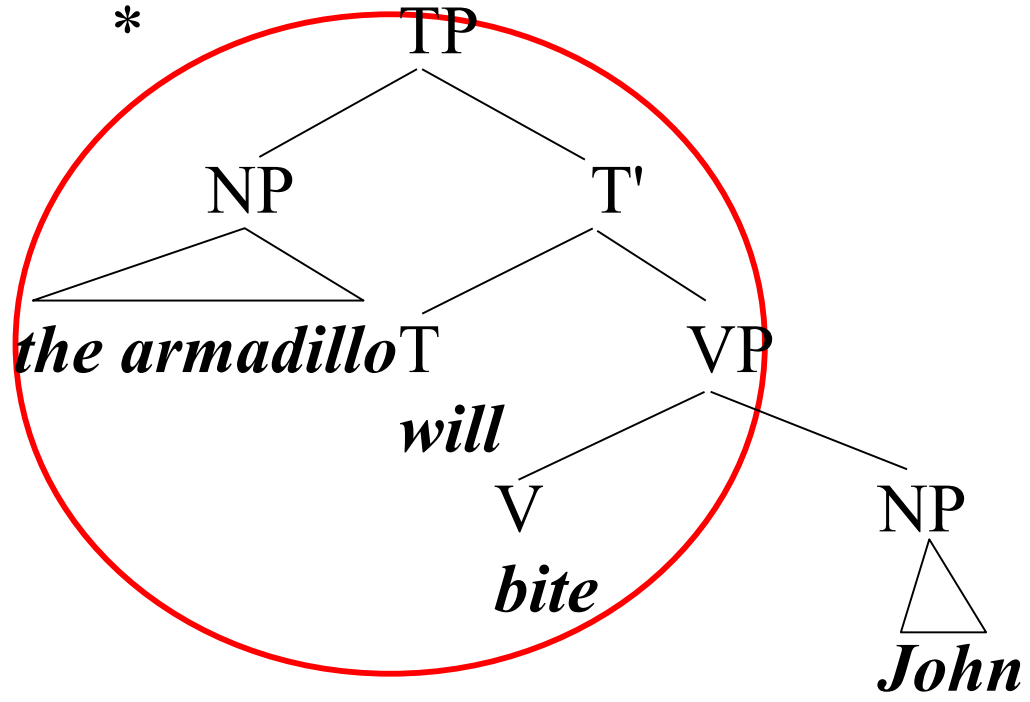
**the armadillo bit...*

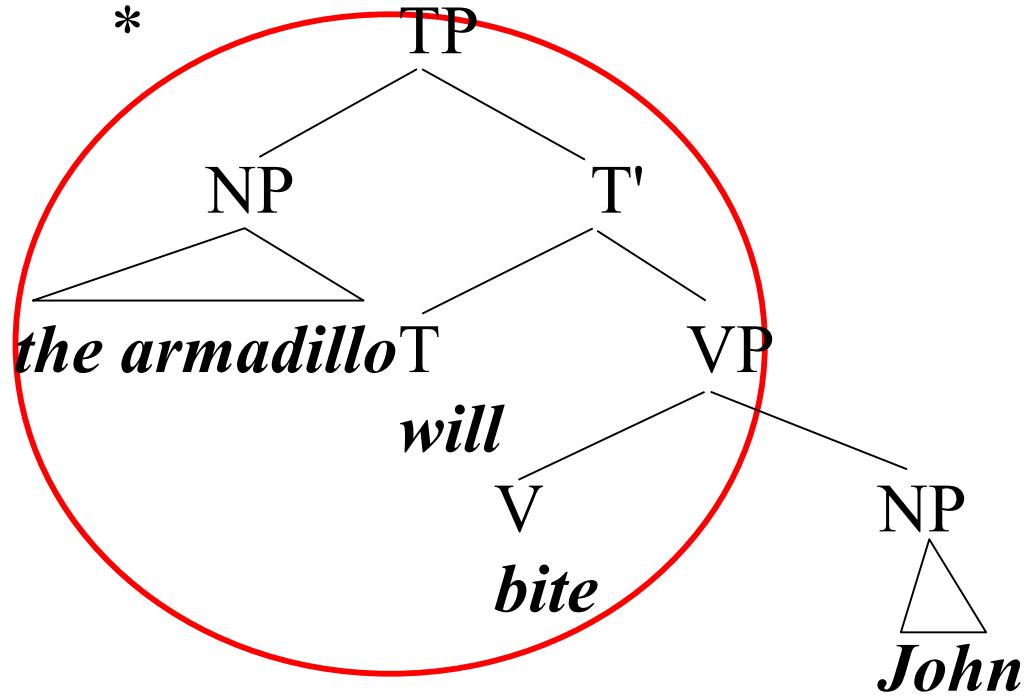
- this isn't because subject can't be part of an idiom:

the cat is out of the bag

the shit will hit the fan







--> idioms must be constituents.

so what about....

The shit hit the fan.

so what about....

The shit hit the fan.

The shit seemed to hit the fan.

so what about....

The shit hit the fan. constituent

The shit seemed to hit the fan. constituent?

The shit seemed to be likely to hit the fan. constituent?!

-->idioms must be constituents at the start.

start

seemed [the shit to hit the fan]

NP-movement

seemed [the shit to hit the fan]



finish

the shit seemed [to hit the fan]

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