# SPAU 133 Syntax

Uploaded By: anonymous

STUDENTS-HUB.com

## What is syntax?

 It is the field of linguistics that studies how sentences and other phrases can be constructed out of smaller phrases and words.

TS-HUB.com

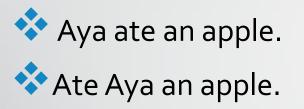
STUDE

## Linguistic expressions

These are a piece of language that has its own form, meaning, and syntactic properties.

STUDENTS-HUB.com

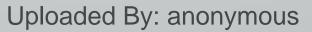
# Grammaticality Judgment



.com

STUDE

- If the linguistic expressions are well-formed = grammatical.
- If the linguistic expressions are ill-formed = ungrammatical.



## Syntactic Properties

- Word order: how expressions are allowed to be ordered with respect to one another.
- Co-occurence: if some expressions occur in a sentence, what other expressions can or must occur with it in that sentence.

STUDE

.com

# Word ordering

(1) a. Sally walked.b. \*Walked Sally.

STUDENTS-HUB.com

- (2) a. Sally ate an apple.b. \*Sally an apple ate.
  - c. \*Ate Sally an apple.
  - d. \*Ate an apple Sally.

# Malagasy, VOS language

(3) Manasa lamba amin'ny savony ny lehilahy. washes clothes with the soap the man 'The man washes clothes with the soap.'

STUDENTS-HUB.com

## Different patterns: German!

(4) a. Karl kocht die Suppe. Karl cooks the soup 'Karl is cooking the soup.'

STUDENTS-HUB.com

b. Magda ist froh, daß Karl die Suppe kocht. is Magda that happy Karl the cooks soup 'Magda is happy that Karl is cooking the soup.'

# Word order/determiners

- (6) a. Sally still hasn't read <u>these books</u>.b. \*Sally still hasn't read <u>books these</u>.
- (7) a. buku-buku ini
   books these
   'these books'
  - b. \*ini buku-buku

STUDENTS-HUB.com

## Word Order/ 'with'

(8) a. Sally finally met <u>with that person</u>.b. \*Sally finally met <u>that person with</u>.

(9) a. kono kodomo to this child with 'with this child'

b. \*to kono kodomo

STUDENTS-HUB.com

### Co-occurance

 The word that you choose may allow or require certain expressions to cooccur with it.

STUDENTS-HUB.com

## Arguments

**a. Arguments.** Many expressions have co-occurrence requirements. That is, if they show up in a sentence, certain other expressions are required to occur in that sentence as well. Recall our earlier observation concerning *devoured*:

(10) a. Sally devoured an apple.b. \*Sally devoured.

STUDENTS-HUB.com

Having different word order doesn't't affect the necessity of an argument.

(12) a. Marija voli muziku. *Marija likes music* 'Marija likes music.'

- b. Marija muziku voli.
- c. Voli muziku Marija.
- d. Voli Marija muziku.
- e. Muziku voli Marija.
- f. Muziku Marija voli.
- (13) a. \*Marija voli.b. \*Voli Marija.

STUDENTS-HUB.com

# **Compliments examples**

(14) a. Sally told <u>Polly she's leaving</u>.[*Polly* and *she's leaving* are both complements of *told*]

STUDENTS-HUB.com

- b. Sally put <u>the book on the desk</u>. [*the book* and *on the desk* are both complements of *put*]
- c. Sally persuaded <u>Bob to go on vacation</u>.
   [Bob and to go on vacation are both complements of persuaded]

# Italian and the difference requirement for arguments

(15) a. Ho comprato un libro. *have-1sg bought a book* 'I bought a book.'

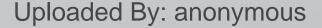
STUDENTS-HUB.com

b. Io ho comprato un libro. *I have-1sg bought a book* 'I bought a book.'

# An example of how multiple determiners can co-occur (Serbio-Croation language)

(20) Marija sad ima tog mog psa. Marija now has this my dog 'Marija now has that dog of mine.'

STUDENTS-HUB.com



# Adjuncts

**b.** Adjuncts. While there have to be exactly the right number and type of arguments for each expression in a sentence, there are certain kinds of expressions whose occurrence in a sentence is purely optional. These kinds of expressions are called **adjuncts**. Not only are they optional, but it is also possible to add as many of them as you like without winding up with a non-sentence. Let's consider some examples from English.

STUDE

(21) a. Sally likes dogs.
b. Sally likes <u>small</u> dogs.
c. Sally likes <u>small</u> <u>fluffy</u> dogs.
d. Sally likes <u>small</u> <u>fluffy</u> brown dogs.

STUDENTS-HUB.com

- (22) a. Sally likes Bob.b. \*Sally likes fluffy Bob.
- (23) a. Sally runs.b. \*Sally runs small.

# The same expression can be an adjunct or an argument

(25) a. Sally urged Bob to study French.b. Sally went to France to study French.

(26) a. Sally put the book <u>on the desk</u>.b. Sally's cat was sleeping <u>on the desk</u>.

(27) a. Sally's cat seemed <u>cute</u>.b. Sally has a <u>cute</u> cat.

STUDENTS-HUB.com

(28) a. Sally behaved <u>very carelessly</u>.b. Sally did her homework very carelessly.

[argument of *urged*] [adjunct]

[argument of *put*] [adjunct]

[argument of seemed] [adjunct]

[argument of *behaved*] [adjunct]

(29) Distinguishing arguments and adjuncts

STUDENTS-HUB.com

Arguments	Adjuncts
Obligatory:	Optional:
Sally seemed happy. *Sally seemed.	The cat was sleeping on the table.
	The cat was sleeping.
Sally seemed happy. *seemed happy.	The <u>fluffy</u> cat was sleeping.
	The cat was sleeping.
Cannot have more than required:	Can have as many as you like:
Sally seemed <u>cute</u> . *Sally seemed <u>cute happy</u> .	The cat was sleeping. The <u>gray</u> cat was sleeping. The <u>fluffy gray</u> cat was sleeping.
Sally seemed cute. *Sally Bob seemed cute.	Sally left. Sally left <u>yesterday</u> . Sally left <u>yesterday</u> <u>around 3 P.M</u> .
Cannot be freely ordered with respect to one another:	Can be freely ordered with respect to one another:
Sally put the book on the table.	The <u>fluffy</u> gray cat was sleeping.
*Sally put on the table the book.	The gray fluffy cat was sleeping.
Sally persuaded Bob to study French.	Sally left yesterday around 3 P.M.
*Sally persuaded to study French Bob.	Sally left around 3 P.M. yesterday.

## Agreement

- (30) a. Sandy likes Bob.
  - b. \*{I/you/we/they} likes Bob.<sup>2</sup>
  - c. \*Sandy like Bob.

STUDENTS-HUB.com

d. {I/you/we/they} like Bob.

The inflectional form of an expression can convey information about number, person, gender, and other so-called grammatical features, or some combination of them (e.g., the *-s* in *likes* simultaneously marks person (third) and number (singular)). Distinct expressions in a sentence may be required to have the same value for some grammatical feature, in which case we say that they agree with respect to that feature. Such features are called agreement features, and this phenomenon is called **agreement**. For example, we could say that *likes* agrees with *Sandy* in person and number: they are both third-person singular.

With respect to number in English, demonstratives also show agreement patterns: they have to agree with nouns in number, as shown in (31).

(31) a. This girl came.

.com

STUDENTS-

- b. \*This girls came.
- c. \*These girl came.
- d. These girls came.

#### Syntactic categories

#### (21) Major syntactic categories in English and their properties

STUDENTS-HUB.com

Syntactic Category	<b>Relevant Properties</b>	Example
<b>S</b> (sentence)	can occur in Sally thinks that	Fluffy is cute
NP (noun phrase)	has the same distribution as a personal pronoun or a proper name	she Sally the cat this cute dog that cat under the bed
N (noun)	needs a determiner to its left to form an NP	cat cute dog cat under the bed
Det (determiner)	occurs to the left of the noun to form an NP	the every this
<b>Adj</b> (adjective)	occurs in between a determiner and a noun; can be a noun adjunct, that is, combines with a noun to its right which results in an expression that is also of category N	cute fluffy gray

	category N	
VP (verb phrase)	consists minimally of a verb and all its complements; combines with an NP to its left which results in a sentence; has the same distribution as <i>slept</i> or <i>did so</i>	slept wrote the letter quickly liked Bob walked believed she liked that man
TV (transitive verb)	needs an NP complement to form a VP	liked devoured
DTV (ditransitive verb)	needs two NP complements to form a VP	gave sent
<b>SV</b> (sentential complement verb)	needs a sentential complement to form a VP	believed said
Adv (adverb)	can be a VP adjunct, that is, combines with a VP to its left which results in an expression that is also of category VP	fast quickly tomorrow
P (preposition)	combines with an NP to form a PP	at for with
<b>PP</b> (prepositional phrase)	can be a VP or an N adjunct; consists of a preposition and its NP complement	at the table for Sally under the bed

#### Uploaded By: anonymous

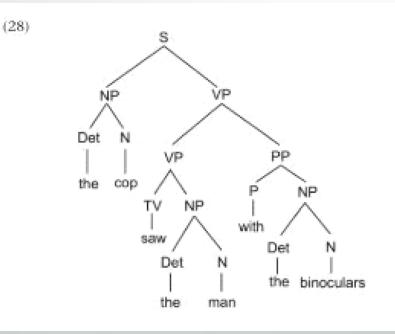
STUDENTS-HUB.com

#### (14) Phrase structure rules

STUDENTS-HUB.com

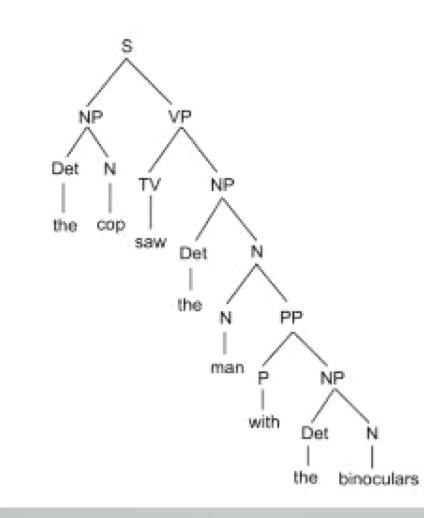
Phrase Structure Rule	Function
$S \rightarrow NP VP$	allows VPs to combine with their subject NP to form a sentence
$NP \rightarrow Det N$	allows determiners to combine with a noun to form an NP
$N \rightarrow Adj N$	allows attributive adjectives to be noun adjuncts
$VP \rightarrow VP Adv$	allows adverbs to be VP adjuncts
$VP \rightarrow TV NP$	allows transitive verbs to combine with their object NP to form a VP
$VP \rightarrow DTV NP NP$	allows ditransitive verbs to combine with their object NPs to form a VP
$VP \rightarrow SV S$	allows sentential complement verbs to combine with their complement S to form a VP
$PP \rightarrow P NP$	allows prepositions to combine with their complement NP to form a PP
$N \rightarrow N PP$	allows PPs to be noun adjuncts
$VP \rightarrow VP PP$	allows PPs to be VP adjuncts

# Structural Ambiguity EX: The cop saw the man with the binoculars.



STUDENTS-HUB.com

On the other hand, if we use the rule in (27a), which allows PPs to combine with nouns, we get the sentence that means that the man who the cop saw was the one who had the binoculars, as shown in (29).



(29)

STUDENTS-HUB.com