

Alternate Agreement in Arabic

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Definition of Agreement

- Agreement or concord is:
 - the feature compatibility between two words in a phrase or clause.
 - The systematic covariance between a semantic or formal property of one element and a formal property of another.
Corbett (2001)

Definition of Agreement

- البنات ذهبن إلى الحديقة

al-banātu ḡahabna 'ilā al-ḡadīqati
the-girl.pl.fem.3 go.past.pl.fem.3 to the-garden

‘The girls went to the garden.’

- Controller: the element which determines the agreement
- Subject
- Target: the element whose form is determined by
agreement - Verb
- Domain: the syntactic environment in which agreement
occurs - Sentence

Agreement in Arabic

- Arabic has rich agreement morphology
- Five morphosyntactic features involved in agreement:
 - Number: singular, dual and plural
 - Gender: feminine and masculine
 - Person: 1st, 2nd, and 3rd
 - Case: nominative, accusative and genitive
 - Definiteness: definite and indefinite

Agreement in Arabic

- Agreement relations show between various elements in the sentence

1. Noun – Demonstrative pronoun: number, gender

هذا الرجل

hadā

ar-raġulu

this.sg.masc the-man.sg.masc

‘this man’

2. Noun – Adjective: number, gender, case, definiteness

رأيت الرجلين الكريمين

ra’aitu ar-raġulaini

al-karīmaini

I-saw the-man.dual.acc.def the-generous.dual.masc.acc.def

‘I saw the two generous men.’

Agreement in Arabic

3. Noun – Relative pronoun: number, gender, case

الطالبتان اللتان نجحتا

aṭ-ṭālibatāni

allatāni

naḡaḡatā

the-student.dual.fem.nom who.dual.fem.nom succeed.past.dual.fem.3

The two students who succeeded

4. Noun – Pronoun: person, number, gender

الطالبات ذاکرن دروسهن

aṭ-ṭālibātu

dākarna

durūsa-hunna

the-student.pl.fem.3.nom study.past.pl.fem.3 lessons-
their.pl.fem.3

‘The students studied their lessons.’

Agreement in Arabic

5. Subject – Predicate: number, gender

الرجل كريم

ar-raġulu

karīmun

the-man.sg.masc generous.sg.masc

‘The man is generous.’

- Morphosyntactic agreement is sometimes replaced by a semantic agreement. The subject is plural and the predicate is singular, but they are semantically compatible.

هؤلاء هم السبب في هزيمتنا

hā’ulā’i humu as-sababu fī hazīmati-nā

These they the-reason in defeat-our

‘These people are the reason behind our defeat.’

Agreement in Arabic

- The feature of humanness plays an important role in agreement in Arabic. With non-human plural nouns, verbs are invariably in the singular and feminine.

القطط تشرب اللبن

al-qīṭaṭu

tašrabu

al-labana

the-cat.pl.fem.nom.3 drink.sg.fem.3 the-milk

‘The cats drink the milk.’

Uniform or Alternate Agreement

- Platzack (2003) classified languages into:
 - “uniform agreement” languages
 - “alternate agreement” languages
- Standard Arabic is a language with alternate agreement
 - SVO: rich or full agreement in person, gender and number
 - VSO: poor or partial agreement in only person and gender

Uniform or Alternate Agreement

- When subjects are in the pre-verbal position (SVO), verbs have full agreement in number, gender and person

البنات ذهبن إلى الحديقة

al-banātu dahabna 'ilā al-ḥadīqati

the-girl.pl.fem.3 go.past.pl.fem.3 to the-garden

'The girls went to the garden.'

Uniform or Alternate Agreement

- If subjects are in the post-verbal position (VSO), verbs show partial agreement in gender and person only

ذهبت البنات إلى الحديقة

ḡahabat al-banātu 'ilā al-ḡadīqati

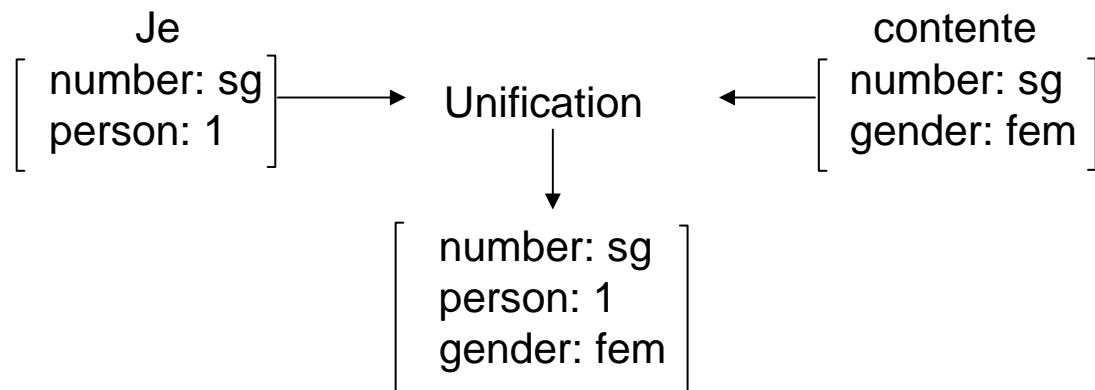
go.past.sg.fem.3 the-girl.pl.fem.3 to the-garden

The girls went to the garden.

Uniform Agreement

- Unification works for uniform agreement languages, such as French, features are compatible

Je suis contente
I be.1.sg pleased.sg.fem
'I am pleased' (woman taking)



Alternate Agreement

- Unification does not work for alternate agreement languages, such as Arabic, because features are not always compatible.
- SVO: Compatible features, and unification succeeds.

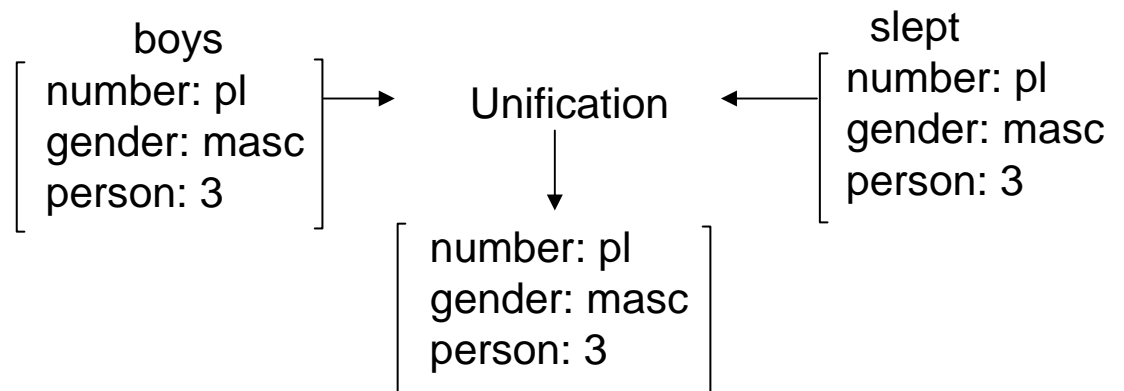
الأولاد ناموا

al-'awlād

nāmū

The-boy.pl.masc.3 slept.pl.masc.3

'The boys slept.'



Alternate Agreement

- VSO: Non-compatible features and unification fails.

نام الأولاد

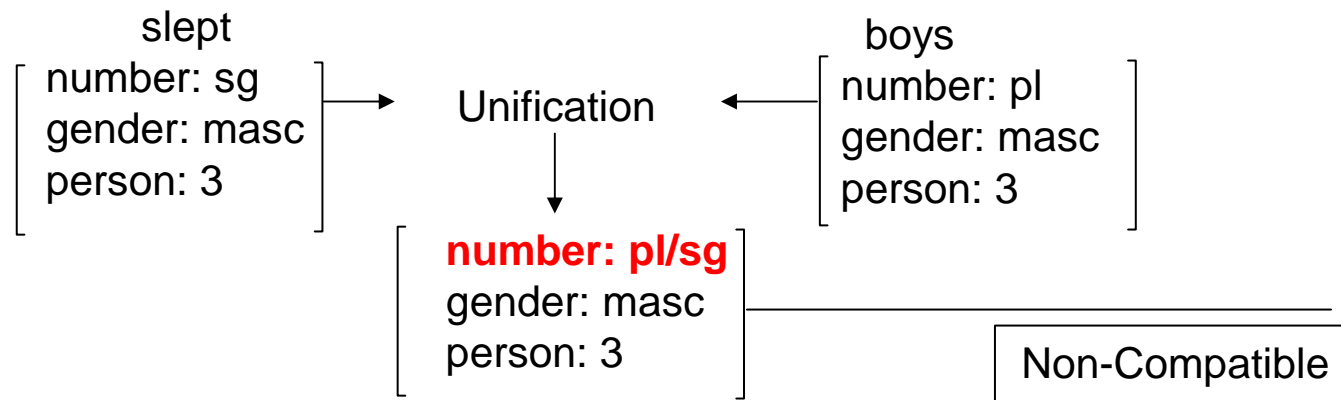
nāma

al-'awlād

slept.sg.masc.3

The-boy.pl.masc.3

'The boys slept.'



Alternate Agreement

- Constructional Approach: Agreement in Arabic is determined by word order and this is why we adopt a constructional approach to agreement.
 - First: The verb does not say anything about the subject. The agreement features of the verbs are temporarily stored in an independent structure called AGR.

slept.sg.masc.3 V (↑ PRED)='stept'
(↑ AGR NUM)=sg
(↑ AGR GEND)=masc
(↑ AGR PERS)=3

slept.pl.masc.3 V (↑ PRED)='slept'
(↑ AGR NUM)=pl
(↑ AGR GEND)=masc
(↑ AGR PERS)=3

Alternate Agreement

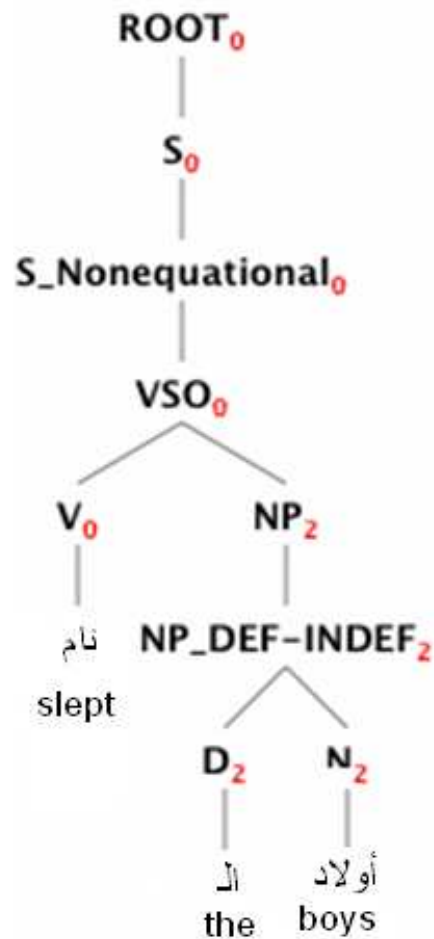
- Second: the relationship between the subject and the verb is resolved through functional equations on the phrase structure according to the position of the subject relative to the verb, i.e. whether it precedes or follows the subject.

SV → NP V
 (↑ SUBJ)=↓ ↑=↓
 (↑AGR GEND)=(↑ SUBJ GEND)
 (↑AGR NUM)=(↑ SUBJ NUM)
 (↑AGR PERS)=(↑ SUBJ PERS)

VS → V NP
 ↑=↓ (↑ SUBJ)=↓
 (↑AGR NUM)=sg
 (↑AGR GEND)=(↑ SUBJ GEND)
 (↑AGR PERS)=(↑ SUBJ PERS)

Alternate Agreement

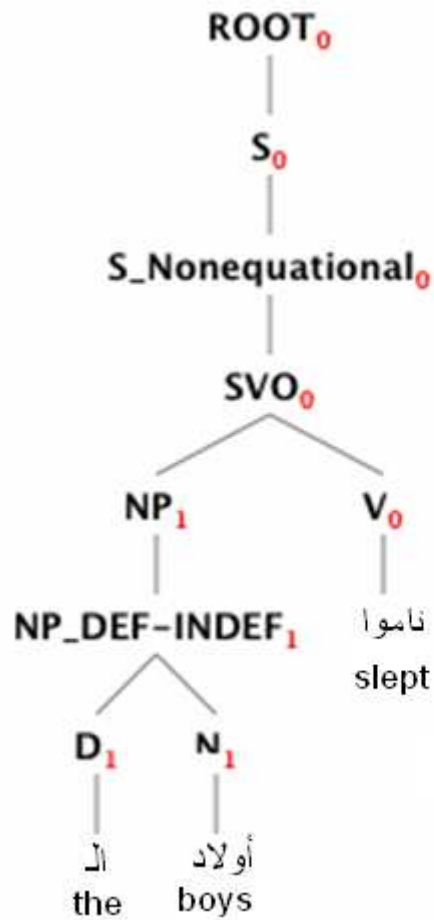
VSO word order agreement



PRED	'نام <[2:ركب]>'
TNS-ASP	5 TENSE past, MOOD Indicative
AGR	4 PERS 3, NUM sg, GEND masc
SUBJ	PRED 'ركب'
	9 SPEC DET 10 DET-TYPE def
	7 NTYPE NSYN common
	2 PERS 3, HUMAN +, GLOSS boy, GEND masc, DEF +, CASE nom, NUM pl
0	STMT-TYPE decl, PASSIVE -, COMP-TYPE verbal

Alternate Agreement

SVO word order agreement



PRED	'نام <[1:رلد]>'
TNS-ASP	3 TENSE past, MOOD indicative
AGR	2 PERS 3, NUM pl, GEND masc
SUBJ	PRED 'رلد'
	5 SPEC 6 DET DET-TYPE def
	4 NTYPE NSYN common
	1 PERS 3, NUM pl, HUMAN +, GLOSS boy, GEND masc, DEF +, CASE nom
0	STMT-TYPE decl, PASSIVE -, COMP-TYPE nominal

Coordination

- Only constituent coordination is covered in our grammar until now.
- Constituents are treated as sets

S
↑∈↓

CONJ

S
↑∈↓

Coordination in Arabic

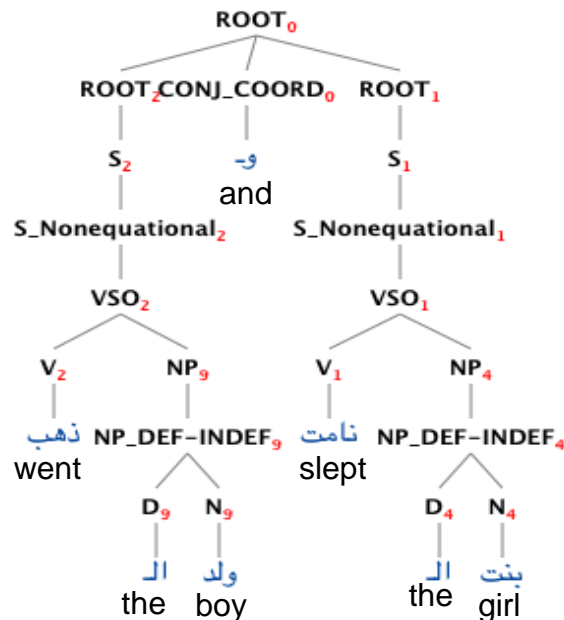
ذهب الولد ونامت البنت

dahaba al-waladu wa-nāmati al-bintu

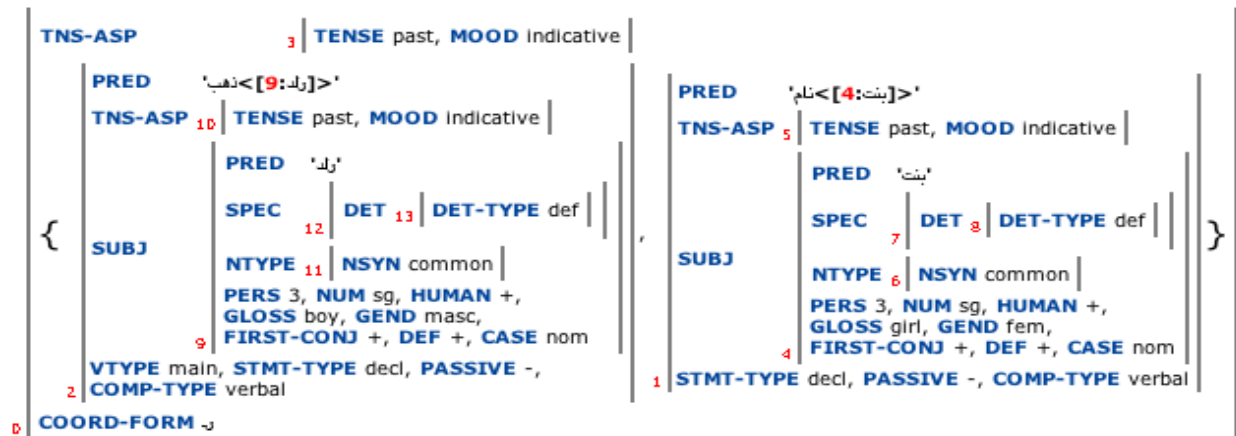
went the-boy and-slept the-girl

‘The boy went and the girl slept.’

C-structure



F-structure



Alternate Agreement in Coordination

- **First Conjunct Agreement**

VSO: The verb agrees only with the first conjunct of a coordinate subject.

- **Whole Set Agreement**

SVO: The verb agrees with the whole set, after resolving the agreement features.

Handling First Conjunct Agreement

- The first conjunct agreement is handled in our grammar through the phrase structure rules. The NP in VSO is given a check feature of FIRST-CONJ. Then the coordination template checks for this feature. If it is found the whole conjunction is given the same features as the first conjunct.

$$S \rightarrow V \quad NP$$

$\uparrow=\downarrow$ $(\uparrow \text{SUBJ})=\downarrow$
 $\quad \quad \quad \quad \quad \quad \quad \quad (\downarrow \text{FIRST-CONJ})=+$

$$S \rightarrow NP \quad V$$

$(\uparrow \text{SUBJ})=\downarrow$ $\uparrow=\downarrow$

Handling First Conjunct Agreement

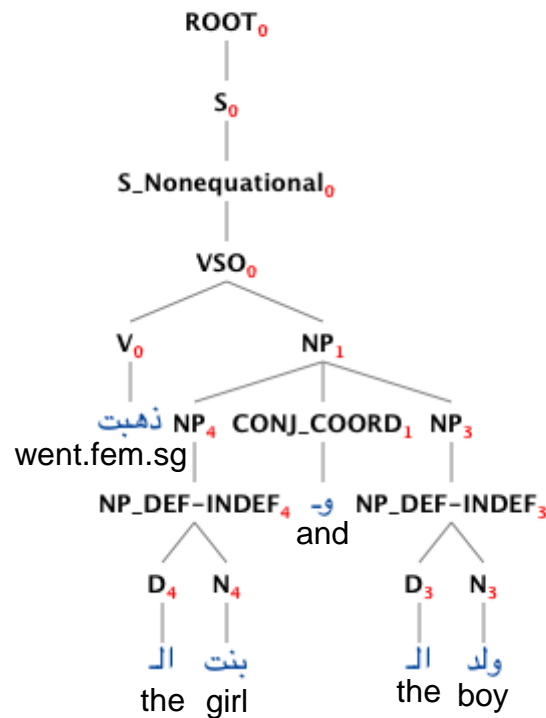
ذهبت البنت والولد

ḡahabat al-bintu wa-al-waladu

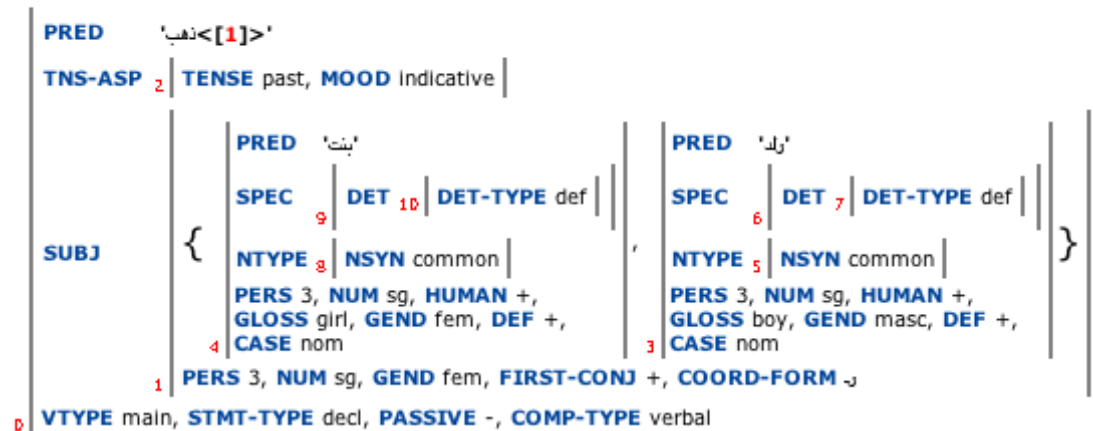
went.fem.sg the-girl and-the-boy

‘The girl and the boy went.’

C-structure



F-structure



Handling Whole Set Agreement

- If the agreement follows the “whole set” agreement condition, the resolution of the features in conjoined subjects follows these rules:
 - Gender: The whole NP is masculine unless all conjuncts are feminine nouns, in which case it is feminine.
 - Person: Priority order.
 - 1st if any NP is in the 1st person
 - 2nd if any NP is in the 2nd person
 - Otherwise the person is 3rd
 - Number: The whole NP is plural unless there are only two conjuncts and both are singular, in which case the whole NP is dual.

Handling Whole Set Agreement

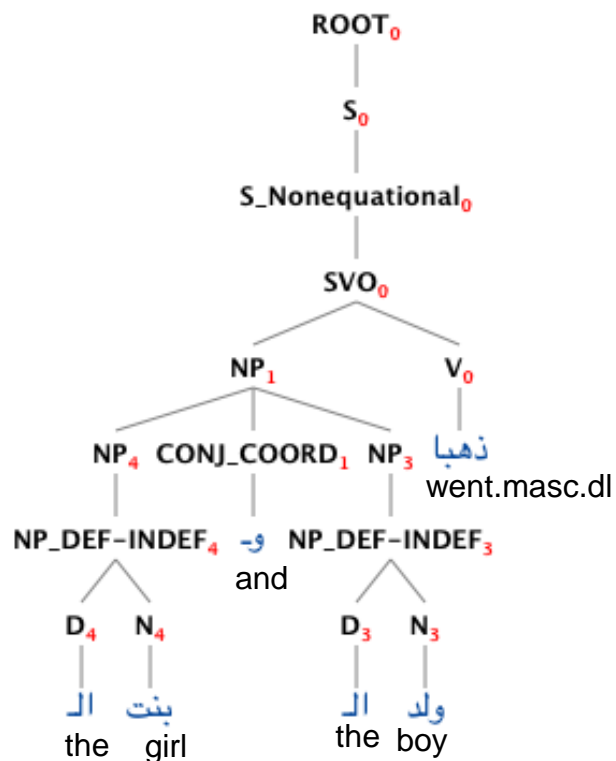
البننت والولد ذهبيا

al-bintu wa-al-waladu ḡahabā

the-girl and-the-boy went.dual.masc

‘The girl and the boy went.’

C-structure



F-structure

