

Where's gender? Evidence from Greek

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- (1) **Gender and ellipsis generalization** When gender is variable (as on determiners, clitics, adjectives, and some nominals under certain conditions), it may be ignored under ellipsis. When gender is invariant (on nouns in argument positions, and on some nominals in predicative uses), it may not be ignored under ellipsis.
- (2) This generalization can be accounted for with either
 - a semantic theory of ellipsis, if 'ellipsis' is heterogeneous, following van Craenenbroeck 2010, with both **PF-deletion** of nP and a **null proform** e_N available, or
 - a syntactic theory of ellipsis, using **LF-copy** and lots of bells and whistles

1 Predicate adjectives under ellipsis

Greek predicate ellipsis:

- (3) a. O Petros ine ikanos, ala o Alexandros dhen ine.
the Petros is capable.m.sg but the Alexander not is
'Petros is capable, but Alexander isn't.'
- b. I Maria ine ikani, ala i Anna dhen ine.
the Maria is capable.f.sg but the Anna not is
'Maria is capable, but Anna isn't.'
- c. To koritsi ine ikano, ala to agori dhen ine.
the girl.neut.sg is capable.n.sg but the boy.neut.sg not is
'The girl is capable, but the boy isn't.'
- d. I pateradhes ine ikani, ala i papudhes dhen ine.
the fathers.m.pl are capable.m.pl but the grandfathers.m.pl not are
'The fathers are capable, but the grandfathers aren't.'
- e. I miteres ine ikanes, ala i jajadhes dhen ine.
the mothers.f.pl are capable.f.pl but the grandmothers.f.pl not are
'The mothers are capable, but the grandmothers aren't.'
- f. Ta koritsia ine ikana, ala ta agoria dhen ine.
the girls.n.pl are capable.n.pl but the boys.n.pl not are
'The girls are capable, but the boys aren't.'

With adjectival predicate ellipsis, any combination of gender and number between the antecedent and the elided predicate is possible:

$$(4) \left\{ \begin{array}{l} \text{O Petros} \quad \text{ine} \quad \text{ikanos} \\ \text{I Maria} \quad \text{ine} \quad \text{ikani} \\ \text{To koritsi} \quad \text{ine} \quad \text{ikano} \\ \text{I pateradhes} \quad \text{ine} \quad \text{ikani} \\ \text{I miteres} \quad \text{ine} \quad \text{ikanes} \\ \text{Ta koritsia} \quad \text{ine} \quad \text{ikana} \\ \text{the } X_{\phi;\alpha} \quad \text{is} \quad \text{capable}_{\phi;\alpha} \end{array} \right\} \text{ala} \left\{ \begin{array}{l} \text{o Alexandros} \quad \text{dhen} \quad \text{ine} \\ \text{i Anna} \quad \text{dhen} \quad \text{ine} \\ \text{to agori} \quad \text{dhen} \quad \text{ine} \\ \text{i papudhes} \quad \text{dhen} \quad \text{ine} \\ \text{i jajadhes} \quad \text{dhen} \quad \text{ine} \\ \text{ta agoria} \quad \text{dhen} \quad \text{ine} \\ \text{the } Y_{\phi;\beta} \quad \text{not} \quad \text{is} \end{array} \right\}.$$

- (5) **Gender and ellipsis generalization, first attempt:**
Gender and number are irrelevant to ellipsis:¹
 - (6) An XP_E can be elided under identity with a YP_A just in case $XP=YP$ (or $[[XP]] = [[YP]]$) except for ϕ -features
- Such an 'ignore some stuff' approach echoes Chomsky's 1965 remarks (p. 179): "the features added to a formative by agreement transformations are not part of the formative in the same sense as those which are inherent to it":
- (7) a term X of the proper analysis can be used to erase a term Y of the proper analysis just in case the inherent part of the formative X is not distinct from the inherent part of the formative Y

2 Nouns under ellipsis

2.1 Nonalternating nouns (*adherfos/adherfi* 'brother/sister')

- (8) **As predicates:**²
 - a. # O Petros ine kalos adherfos, ala i Maria ine mia kakia.
the Petros is good.masc brother.masc but the Maria is a.fem bad.fem
(on the meaning 'Petros is a good brother, but Maria is a bad one (sister).')
 - b. # I Maria ine kali adherfi, ala o Petros ine enas kakos.
the Maria is good.fem sister.fem but the Petros is a.masc bad.masc
(on the meaning 'Maria is a good sister, but Petros is a bad one (brother).')
 - c. Controls: when gender matches, these are fine:
 - i. O Petros ine kalos adherfos, ala o Kostas ine enas kakos.
 - ii. I Maria ine kali adherfi, ala i Anna ine mia kakia.

¹Part of the huge, well-known generalization that inflectional morphology is usually irrelevant to ellipsis. Number is irrelevant even in argument positions.

²I use a nominal subdeletion ('N'-ellipsis) construction here, but the results are the same with canonical predicate ellipsis (after *ime* 'be') and with predicate stripping (both positive and negative).

(9) **As arguments:**

- a. # O Petros exi enan adherfo stin Veria, ala dhen exi mia stin
the Petros has a.masc brother in.the Veria but not has one.fem in.the
 Katerini.
Katerini
 ('Petros has a brother in Veria, but he doesn't have one (sister) in Katerini.')
- b. # O Petros exi mia adherfi stin Veria, ala dhen exi enan stin
the Petros has a.fem sister in.the Veria but not has one.masc in.the
 Katerini.
Katerini
 ('Petros has a sister in Veria, but he doesn't have one (brother) in Katerini.')
- c. Controls: when gender matches, these are fine:³
- i. O Petros exi enan adherfo stin Veria, ala dhen exi enan stin Katerini.
 O Petros exi mia adherfi stin Veria, ala dhen exi mia stin Katerini.
- ii. O Petros exi enan kalo adherfo, ala dhen exi enan kako.
 O Petros exi mia kali adherfi, ala dhen exi mia kakia.

(10) Noun pairs that do not alternate at all (neither as predicates nor as arguments)

<i>masculine</i>		<i>feminine</i>	
adherfos	'brother'	adherfi	'sister'
kirios	'mister/gentleman'	kiria	'ma'am/woman'
ksadherfos	'(male) cousin'	ksadherfi	'(female) cousin'
engonos	'grandson'	engoni	'granddaughter'
vaftistikos	'godson'	vaftistikia	'goddaughter'
antras	'man, husband'	jineka	'woman, wife'
pateras	'father'	mitera	'mother'
babas	'dad'	mama	'mom'
jos	'son'	kori	'daughter'
papus	'grandfather'	jaja	'grandmother'
gambros	'groom, son-in-law'	nifi	'bride, daughter-in-law'
raptis	'tailor'	modhistra	'seamstress'
kureas	'barber'	komotria	'hairstresser'
prinkipas	'prince'	prinkipissa	'princess'
vasilias	'king'	vasilissa	'queen'

- (11) So far, compatible with Barbiers's (2005) suggestion that '[gender] is interpretable on nouns and uninterpretable on adjectives and determiners'.

2.2 Two-way alternating nouns (*jatros* 'doctor')

Epicene (or 'hybrid' or 'variable gender'; see Corbett 1991 and Aikhenvald 2000) nouns have only one form, but their concord and agreement patterns are determined by the natural (or 'semantic') gender of their referent (seen in the article, attributive adjectives, predicate adjectives, relative pronouns, and personal pronouns):

- (12) a. I kali **jatros** itan xarumeni. Tin agapusame.
the.fem good.fem doctor was happy.fem her loved.3p
 'The good doctor (female) was happy. We loved her.'
- b. O kalos **jatros** itan xarumenos. Ton agapusame.
the.masc good.masc doctor was happy.masc him loved.3p
 'The good doctor (male) was happy. We loved him.'

NB: This isn't just 'natural'/'semantic' agreement (agreement *ad sensum*) overriding grammatical/syntactic agreement (agreement *ad formam*), as is possible with certain neuter nouns denoting animates (*koritsi* 'girl', *agori* 'boy', *pedhi* 'child', *melos* 'member') and personal pronouns:⁴

- (13) a. To kalo koristi itan xarumeno. {To/tin} agapusame.
the.neut good.neut girl.neut was happy.neut it/her loved.3p
 'The good girl was happy. We loved it/her.'
- b. i. *I koristi itan eki.
the.fem girl.neut was there
- ii. *Kales koritsia itan eki.
good.fem girls.neut were there
- iii. *To koritsi itan xarumeni.
the.neut girl.neut was happy.fem

(14) **As predicates:**

- a. O Petros ine kalos jatros, ala i Maria ine mia kakia.
the Petros is good.masc doctor but the Maria is a.fem bad.fem
 'Petros is a good doctor, but Maria is a bad one.'
- b. I Maria ine kali jatros, ala o Petros ine enas kakos.
the Maria is good.fem doctor but the Petros is a.masc bad.masc
 'Maria is a good doctor, but Petros is a bad one.'

⁴These nouns in Greek are thus different from better known cases of 'hybrid' agreement as in (i), from Corbett 1991, discussed in Wechsler and Zlatić 2003 and Villavicencio et al. 2005 (cf. also Collins and Postal 2011 on 'imposters'):

(i) Su Majestad Suprema está contento. (Él...)
 Poss.3 Majesty.fem Supreme.fem is happy.masc (He.masc ...)
 'His Supreme Majesty is happy. (He ...)'

³I use both adjectival and PP modifiers to supply contrastive elements in these examples; the point is the same, and these don't differ in their distribution (the former show agreement, while the latter avoid a possible confound with nominalized adjective uses; see Giannakidou and Stavrou 1999 for tests to distinguish NPE from such adjectives in Greek. The distribution of the indefinite article is fairly complex in Greek, and in general is dispreferred with predicates, being more acceptable when the head noun is missing.

(15) **As arguments:**

- a. # O Petros exi enan jatros stin Veria, ala dhen exi mia stin
the Petros has a.masc doctor in.the Veria but not has one.fem in.the
 Katerini.
Katerini
 ('Petros has a (male) doctor in Veria, but he doesn't have one (female doctor) in Katerini.')
- b. # O Petros exi mia jatros stin Veria, ala dhen exi enan stin
the Petros has a.fem doctor in.the Veria but not has one.masc in.the
 Katerini.
Katerini
 ('Petros has a (female) doctor in Veria, but he doesn't have one (male doctor) in Katerini.')

(16) Epicene nouns alternate under ellipsis in either direction as predicates (but in neither direction as arguments)

masculine/feminine: dhikigoros 'lawyer', *musikos* 'musician', *ithopios* 'actor', *jatros* 'doctor', *dhimosiografos* 'journalist', *kinigos* 'hunter', *singrafeas* 'writer', *dhikastis* 'judge', *proedhros* 'president', *prothipurgos* 'prime minister', *mixanikos* 'engineer, mechanic', *fisikos* 'physicist', *ximikos* 'chemist', *mathematikos* 'mathematician', *filologos* 'philologist', *istorikos* 'historian', *glossologos* 'linguist', *pedhagogos* 'pedagogue', *jeoponos* 'agrolologist', *jeografos* 'geographer', *idhravlikos* 'plumber', *astinomikos* 'police officer', *pilotos* 'pilot', *zografos* 'artist, painter', *mastoras* 'handyperson', *martiras* 'witness', *sizigos* 'spouse', *marangos* 'carpenter', *antipalos* 'opponent', *odhigos* 'driver', *iereas* 'priest/pastor', *epistimonas* 'scientist', *asthenis* 'patient', *tamias* 'cashier', *kalitexnis* 'artist', *listis* 'thief', *politis* 'citizen', *ipalilos* 'employee', *ipurgos* 'minister', *gramateas* 'secretary', *dhiermineas* 'interpreter', *epangelmatias* 'professional', *sinergatis* 'collaborator', *apostoleas* 'sender', *asthenis* 'patient/sick person', *singenis* 'relative', *goneas* 'parent'

(17) Predicate vs. argument use, minimal pairs:

- a. O Petros ine enas jatros stin K., ke i Maria ine mia stin Athina.
the Petros is a.masc doctor in.the K. and the Maria is one.fem in.the Athens
- b. *O Petros exi enan jatros stin K., ke i Maria exi mia stin Athina.
has has
 'Petros {is/has} a (male) doctor in Katerini, and Maria {is/*has} one (female doctor) in Athens.'

2.3 One-way alternating nouns (*dhaskalos/dhaskala* 'teacher')(18) **As predicates:**

- a. O Petros ine kalos dhaskalos, ala i Maria ine mia kakia.
the Petros is good.masc teacher:masc but the Maria is a.fem bad.fem
 'Petros is a good teacher, but Maria is a bad one.'
- b. # I Maria ine kali dhaskala, ala o Petros ine enas kakos.
the Maria is good.fem teacher:fem but the Petros is a.masc bad.masc
 'Maria is a good teacher, but Petros is a bad one.'

(19) **As arguments:**

- a. # O Petros exi enan dhaskalo stin Veria, ala dhen exi mia stin
the Petros has a.masc teacher:m in.the Veria but not has one.fem in.the
 Katerini.
Katerini
 ('Petros has a (male) teacher in Veria, but he doesn't have one (female teacher) in Katerini.')
- b. # O Petros exi mia dhaskala stin Veria, ala dhen exi enan stin
the Petros has a.fem teacher in.the Veria but not has one.masc in.the
 Katerini.
Katerini
 ('Petros has a (female) teacher in Veria, but he doesn't have one (male teacher) in Katerini.')

(20) Noun pairs in which the masculine form can antecede ellipsis in a predicate of the feminine, but not vice versa (and in neither direction in argument position)

<i>masculine</i>	<i>feminine</i>				
dhaskalos	dhaskala	'teacher'	kathijitis	kathijitria	'professor'
mathitis	mathitria	'pupil'	fititis	fititria	'student'
pianistas	pianistria	'pianist'	athlitis	athlitria	'athlete'
tragudhistis	tragudhistria	'singer'	furnaris	furnarissa	'baker'
theos	thea	'god'	sxoliastis	sxoliastria	'commentator'
nosokomos	nosokoma	'nurse'	ipiretis	ipiretria	'servant'
katharistis	katharistria	'cleaner'	pirosvestis	pirosvestria	'firefighter'
papas	papissa	'pop'	manavis	manavissa	'greengrocer'
stratiotis	stratiotina	'soldier'	piitis	piitria	'poet'
latris	latrissa	'worshiper'	filos	fili	'friend'
kumbaros	kumbara	'best man'/'maid of honor'	nonos	nona	'godfather'/'godmother'
thios	thia	'uncle'/'aunt'	thavmastis	thavmastria	'admirer'

Masculine is unmarked by the usual test for gender markedness:

- (21) a. i dhaskales_[fem] = a group of female teachers only
 b. i dhaskali_[masc] = a group of male teachers, or a mixed group

2.4 Summary of data

Can <i>N</i> vary under ellipsis as (part of) a(n)...			
...predicate?	...argument?	<i>examples of N</i>	
a. No	No	<i>adherfos/adherfi</i> ‘brother/sister’	
$m \leftrightarrow f$	$m \leftrightarrow f$		
b. Yes	No	<i>jatros/jatros</i> ‘doctor’	
$m \leftrightarrow f$	$m \leftrightarrow f$		
c. One way only:	No	<i>dhaskalos/dhaskala</i> ‘teacher’	
$m_A \rightarrow f_E$	$m \leftrightarrow f$		

Cf. Spanish, Brazilian Portuguese, Italian, French, etc: Bernstein 1993, Sleeman 1996, Kester 1996, Panagiotidis 2003a, 2003b, Alexiadou and Gengel 2008, Marchis and Alexiadou 2008, Corver and van Koppen 2009, 2010, Depiante 2001, Depiante and Masullo 2001, Barbiers 2005, Brucart 1987, 1999, Giannakidou and Stavrou 1999, Kornfeld and Saab 2002, Nunes and Zocca 2005, Bobaljik and Zocca 2009, Nunes and Zocca 2010, Zamparelli 2008, Masullo and Depiante 2004, Eguren 2010.

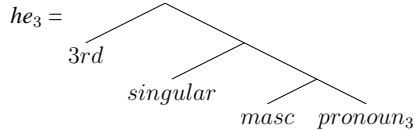
3 A semantic theory of gender on animates

- (23) Cooper 1983: Gender features on animate pronouns are presuppositions (implemented as partial identity functions by Heim and Kratzer 1998, et al.):

$$\llbracket \text{masculine} \rrbracket = \lambda x_e : x \text{ is male}[x]$$

$$\llbracket \text{feminine} \rrbracket = \lambda x_e : x \text{ is female}[x]$$

- (24) Heim 2008: If β is a pronoun and i an index, then for any assignment g , $\llbracket \beta_i \rrbracket^g = g(i)$ (or undefined, if i is not in the domain of g):



- (25) Simple extension to noun denotations:

$$\llbracket \text{masculine} \rrbracket = \lambda P_{et} : \forall x [P(x) \rightarrow \text{male}(x)][P]$$

$$\llbracket \text{feminine} \rrbracket = \lambda P_{et} : \forall x [P(x) \rightarrow \text{female}(x)][P]$$

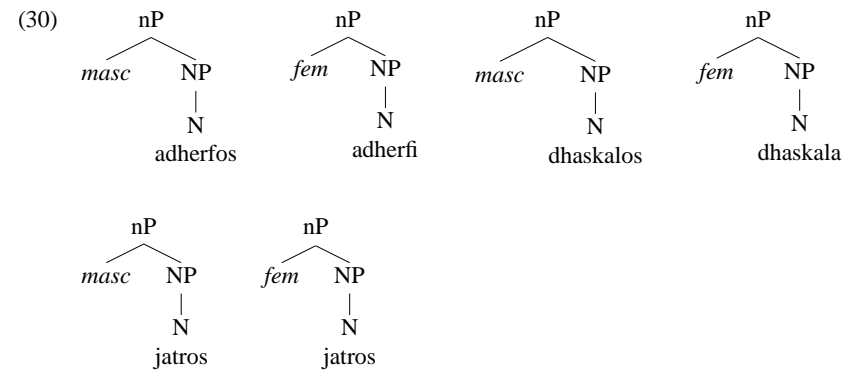
- (26) Basic idea: the values of gender (masculine, feminine) on nouns come in two ‘isotopes’; either the gender is part of the meaning of the root, or it is separate:

- (27) a. $\llbracket \text{adherfos} \rrbracket = \lambda x_e : x \text{ is male}[\text{brother}(x)]$
 b. $\llbracket \text{adherfi} \rrbracket = \lambda x_e : x \text{ is female}[\text{sister}(x)]$

- (28) a. $\llbracket \text{dhaskalos} \rrbracket = \lambda x_e [\text{teacher}(x)]$
 b. $\llbracket \text{dhaskala} \rrbracket = \lambda x_e : x \text{ is female}[\text{teacher}(x)]$

- (29) $\llbracket \text{jatros} \rrbracket = \lambda x_e [\text{doctor}(x)]$

A uniform syntax:



3.1 A heterogeneous theory of ellipsis identity: PF-deletion and null proforms

- (31) van Craenenbroeck 2010 showed that we need at least two mechanisms for analyzing silence: PF-deletion (for sluicing, esp. swiping and spading) and null proforms (for short *do* replies)
- (32) Kluck 2011 shows that even amalgams can be given a PF-deletion analysis (that is, brought into the fold of truth and justice)

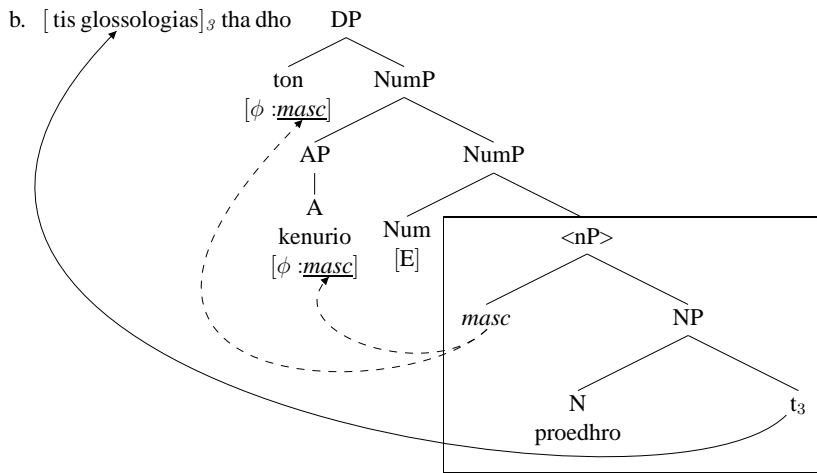
∴ Merchant’s (2011) conclusion is premature, an argument from limited cleverness. There *must* be a PF-deletion account possible; if we also allow null proforms, we can avoid the horrors of LF-copy.

3.1.1 PF-deletion

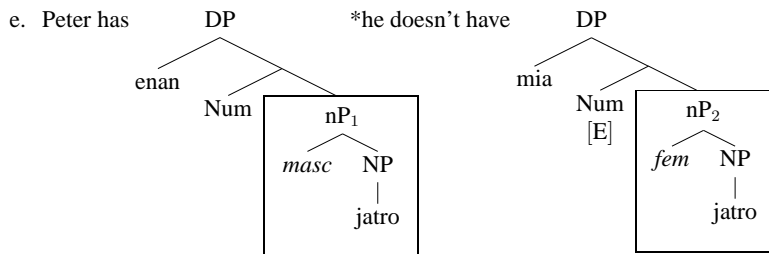
We need PF-deletion in nominal ellipses (viz., nPE) in Greek for some of the usual reasons (see Johnson 2001, Merchant 2011a, van Craenenbroeck and Merchant 2012, etc.)

1. Extraction out of the ellipsis site (the genitive argument *tis glossologias* in (33))
2. Agreement out of the ellipsis site (the determiner *ton* and AP *kenurio* in (33))

- (33) *Tis istorias idha ton palio [proedhro ___], kai ...*
the history.gen I.saw the.m old.m chair.m and
 ‘I saw the former chairperson(masc) of the history department, and...’
- a. ... *tis glossologias tha dho ton kenurio.*
the linguistics.gen fut I.see the.m new.m
 (lit.) ‘of linguistics, I’ll see the new(masc) (one).’



- (34) a. Variable gender elements such as the determiner and the adjective enter the derivation without ϕ -feature specifications (e.g., $ton: [\phi : _]$) and acquire them under Agree with $masc$ (see Baker 2008, Kratzer 2009); this is consistent with the architectural assumption that Agree happens on a branch of the derivation that does not feed LF (if the resulting features would have to be interpreted) or with the assumption that such inflectional features have no semantic effect at all.
- b. The [E](llipsis) feature (here, on Num, or on some head lower than the AP, but higher than $masc$): $[E_n]$ is compatible with Num, but not Gender. (This is the local morphosyntactic ‘licensing’ requirement; see van Craenenbroeck and Lipták 2006, 2010, Aelbrecht 2010, Kluck 2011 for more discussion of the variation here.)
- c. Roughly, the E-feature imposes *semantic identity* between the meaning of the node it ‘deletes’ and that node’s antecedent: $\llbracket XP_A \rrbracket = \llbracket YP_E \rrbracket$
- d. This strategy will be available for all *gender-matching* ellipses, and only for those: for *gender-mismatches*, the [E] feature is too high:



- (35) ...because $\llbracket nP_1 \rrbracket \neq \llbracket nP_2 \rrbracket$

Since uniform PF-deletion of nP can’t handle the gender mismatched cases, we need another mechanism:

3.1.2 A null proform

- (36) A null pro-noun: e_N (cf. Panagiotidis 2003a, 2003b, Barbiers 2005, Corver and van Koppen 2011, etc., on analogs: English *one*, Afrikaans *een/ene*, etc.)
- (37) e_N must be indexed: it introduces a free variable over noun meanings whose value is given by the contextual assignment function:
 $\llbracket e_{Ni} \rrbracket^g = g(i)$
- (38) Typically, e_N will need an antecedent⁵; this requirement can be implemented with coindexing with an antecedent noun. In other words, indices matter—they indicate antecedence relations among elements that may not (and typically do not) stand in a c-command relationship (the particular index used on bound variables is irrelevant to g : these indices are bound by a λ -operator, and $g(i)$ for them is not relevant).

The assignment function can be constrained by this indexing, on antecedents:

- (39) a. Bill bought an old ball₂ and I bought a new one₂.
 b. $\llbracket one_2 \rrbracket^g = g(2) = \llbracket ball_2 \rrbracket^g$
- (40) If β is a noun and i is an index, then for any assignment g where i is the domain of g , $\llbracket \beta_i \rrbracket^g = \llbracket \beta \rrbracket$ if $g(i) = \llbracket \beta \rrbracket$ (else it is undefined)
- (41) Hypothesis: Greek e_N is a pro-noun selected for by Num (or is a pro-nP)⁶

3.2 Derivations

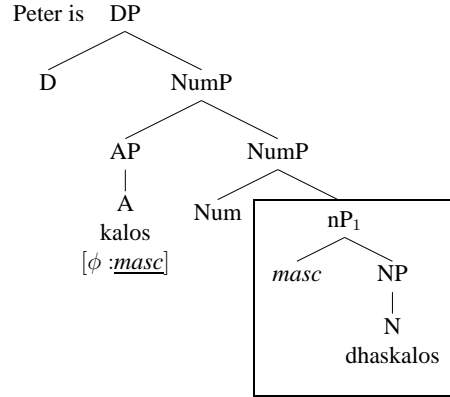
1. One-way nouns: feminine is presuppositional, masculine not

- (42) **As predicates ($m \rightarrow f$):**
 a. O Petros ine kalos dhaskalos₂, ala i Maria ine mia kakia e_{N2} .
the Petros is good.masc teacher.masc but the Maria is a.fem bad.fem
 ‘Petros is a good teacher, but Maria is a bad one.’

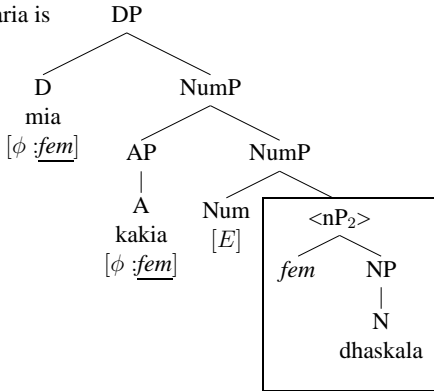
⁵We also need a theory of which kinds of variables need what kinds of antecedents: the old ‘surface/deep’ anaphora distinction is too coarse; we need something like Giannakidou’s (2001) ‘dependent’ variables: a typological distinction *within* types that distinguishes variables that can be text-level existentially bound from those which require closer binders, etc.

⁶However we decide to encode such distributional restrictions; for example, Déchaine and Wiltschko 2010 claim that pronouns can pronominalize either DPs or ϕ Ps (lower bits of structure), while van Riemsdijk 2002:187 gives the following for his empty light motion verb: “[e]_{+V,+DIR} must be licensed by M”.

b. PF-deletion won't apply here, because $\llbracket nP_1 \rrbracket \neq \llbracket nP_2 \rrbracket$:



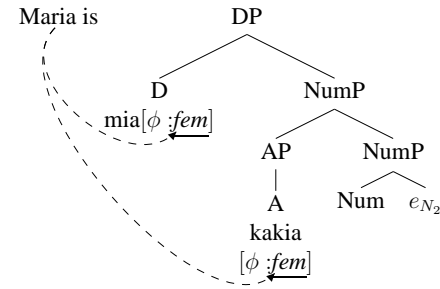
c. Maria is



d. So we need the proform analysis here: since *dhaskalos* itself has no gender pre-supposition, it can supply the meaning of e_N even when this latter is in an environment normally requiring the other gender:

$$\llbracket e_{N_2} \rrbracket^g = g(2) = \llbracket dhaskalos_2 \rrbracket^g = \lambda x. teacher(x) \quad (\text{by (37), (40), (28a)})$$

e. The gender specifications on the determiner, adjective etc. are supplied via Agree with the *subject*, not with e_N (which has no gender feature)⁷:



(43) **As predicates** ($f \leftrightarrow m$):

a. # I Maria ine kali dhaskala₂, ala o Petros ine enas kakos e_{N_2} .
the Maria is good.fem teacher:fem but the Petros is a.masc bad.masc
 ‘Maria is a good teacher, but Petros is a bad one.’

b. The reverse, using the proform, yields the anomalous result that Petros is a female:

$$\llbracket e_{N_2} \rrbracket^g = g(2) = \llbracket dhaskala_2 \rrbracket^g = \lambda x : x \text{ is female}[teacher(x)] \quad (\text{by (28b)})$$

c. And the PF-deletion option is of no use here, for the same reason it can't be used to derive the $m \rightarrow f$ examples: $\llbracket nP_1 \rrbracket \neq \llbracket nP_2 \rrbracket$

Neither strategy will work for gender mismatches in argument positions, though:

1. the PF-strategy won't work for reasons we've just seen (the ellipsis targets a constituent containing Gender, forcing equivalence), and
2. the proform strategy won't work because the needed values for the unvalued ϕ -features on the determiner, etc., cannot be supplied: there is no available controller for the agreement targets.

(44) **As arguments:**

a. *O Petros exi enan dhaskalo stin Veria, ala dhen exi mia stin Katerini.
the Petros has a.masc teacher:m in.the Veria but not has one.fem in.the Katerini.

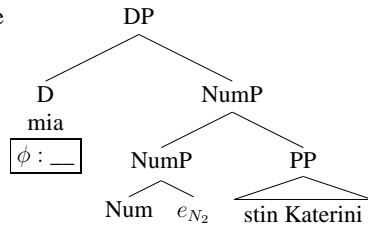
(‘Petros has a (male) teacher in Veria, but he doesn't have one (female teacher) in Katerini.’)

b. *O Petros exi mia dhaskala stin Veria, ala dhen exi enan stin Katerini.
the Petros has a.fem teacher in.the Veria but not has one.masc in.the Katerini.

(‘Petros has a (female) teacher in Veria, but he doesn't have one (male teacher) in Katerini.’)

⁷See Baker 2008 for a theory that allows upward agreement in such cases (where the usual, closer controller is missing).

c. ...*but he doesn't have



d. Unvalued $\phi : _$ on D leads to Morphology crash: agreement targets in arguments have nowhere else to turn for a controller (unlike in predicates, which have the subject)

2. Epicene nouns: both gender values are structurally supplied

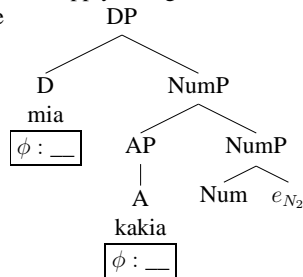
(45) As predicates:

- a. O Petros ine kalos jatros₂, ala i Maria ine mia kakia e_{N2} .
the Petros is good.masc doctor but the Maria is a.fem bad.fem
 'Petros is a good doctor, but Maria is a bad one.'
- b. I Maria ine kali jatros₂, ala o Petros ine enas kakos e_{N2} .
the Maria is good.fem doctor but the Petros is a.masc bad.masc
 'Maria is a good doctor, but Petros is a bad one.'

(46) $\llbracket e_{N2} \rrbracket^g = g(2) = \llbracket \text{jatros}_2 \rrbracket^g = \lambda x[\text{doctor}(x)]$ (by (29))

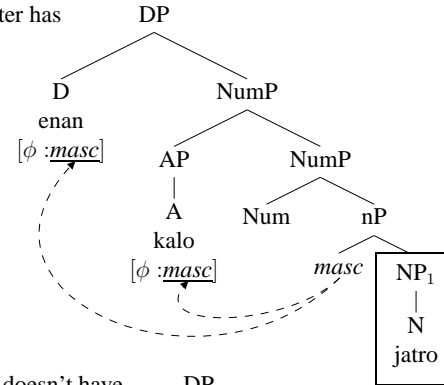
(47) As arguments:

- a. # O Petros exi enan kalo jatro; dhen exi mia kakia.
the Petros has a.m good.m doctor not has a.f bad.f
 ('Petros has a good (male) doctor; he doesn't have a bad (female) one.')
- b. # O Petros exi mia kali jatro; dhen exi enan kako.
the Petros has a.f good.f doctor not has a.m bad.m
 ('Petros has a good (female) doctor; he doesn't have a bad (male) one.')
- c. Proform option fails to supply the agreement values needed:
 ...*he doesn't have

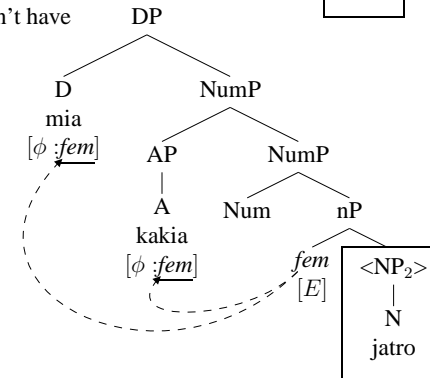


d. And now we see why it is crucial that the [E] feature can only go on Num, but not on Gender: if [E] could delete just NP, excluding nP, we'd expect fully grammatical gender mismatches everywhere:

e. We don't want to allow PF-deletion to apply here, because $\llbracket \text{NP}_1 \rrbracket = \llbracket \text{NP}_2 \rrbracket$ (!):
 Peter has



f. he doesn't have



3. Nonalternating nouns: both gender values are presuppositions on N

(48) As predicates:

- a. # O Petros ine kalos adherfos₂, ala i Maria ine mia kakia
the Petros is good.masc brother.masc but the Maria is a.fem bad.fem
 $\langle \text{adherfi} / e_{N2} \rangle$.
sister
 (on the meaning 'Petros is a good brother, but Maria is a bad one (sister).')
- b. # I Maria ine kali adherfi₂, ala o Petros ine enas kakos
the Maria is good.fem sister.fem but the Petros is a.masc bad.masc
 $\langle \text{aderfos} / e_{N2} \rangle$.
brother
 (on the meaning 'Maria is a good sister, but Petros is a bad one (brother).')

(49) a. *PF-deletion: $\llbracket \text{adherfos} \rrbracket \neq \llbracket \text{adherfi} \rrbracket$

b. $\#e_N: \llbracket e_{N2} \rrbracket^g = g(2) = \llbracket \text{adherfos}_2 \rrbracket^g = \lambda x : x \text{ is a male}[\text{brother}(x)]$

4 Conclusions

- (50) Gender on animate nouns is interpretable, but varies in where it comes in: some nouns (*adherfos*, *adherfi*, *dhaskala*) have gender presuppositions as part of their lexical meanings, while others (*dhaskalos*, *jatros*) get their presuppositions only as a result of combining with a Gender node in the syntax (whose value for gender is also interpretable).
- (51) We need a heterogeneous theory of ellipsis: PF-deletion *and* null proforms
- (52) All this can be cast in an LF-copy theory⁸, but such a theory is one that only its mother could love.⁹
- (53) Even seemingly recalcitrant ellipsis phenomena can be handled with E's ([E] and *e*, to be precise).

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⁸As Merchant 2011b has; read it and weep. And see also Vicente 2008 for more reasons to be wary of too much syntactic identity.

⁹Chung et al., check your messages... ;-))