Non-verbal vs Copular Clauses in Ancient Greek



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Outline of the talk



- 1. Introduction
 - the constructions studied
 - the corpus used
- 2. **Distribution** among the genres of AGDT
- 3. Consider (briefly!) **three** factors that may/may not influence the choice:
 - POS of the subject
 - constituent order
 - $\hfill\Box$ complexity/length of the phrase



Two constructions for nominal predicates

"This is how things are":

- (1) toiáuta mèn tád' estín such.NOM PART these.NOM is.3SG 'So stands the case.'
 (Aesch. Eum. 480)
- (2) toiáuta mèn dē taût' such.NOM PART PART these.NOM 'This [is] how things are' ([Aesch.] PV. 500)

"General truths"?



Omnia praeclara rara

- (3) all' est' alēthè he brotôn paroimía, but is.3S true DET mortals.GEN proverb, echthrôn adōra dôra enemies.GEN no-gift gifts

 'But it is true what mortals say: the gifts of the enemy [are] no gifts' (Soph. Ai. 664-5)
- (4) palaià paroimía hóti chalepà tà kalá estin old proverb that hard DET good_things is.3SG 'It [is] an old say that good things are hard to gain' (Plato, Crat.. 384,a-b)





Author	Works	Genre	Date	N. nodes
	II., Od.	Epos	8th?	236,097
Hesiod	Th., Op., Sc.	Epos	7th?	19,285
Aeschylus	Complete	Tragedy	5th	48,448
Sophocles	Ai., Ant., OT, El., Tr.	Tragedy	5th	50,095
тот				353,925

Table: AGDT: poetry (all dates BCE)

AGDT



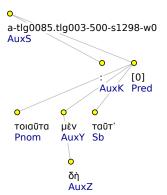
https://github.com/francescomambrini/pAGDT

Author	Works	Genre	Date	N. nodes
Herodotus	bk.1	History	5th	33,105
Thucydides	bk.1	History	5th	25,360
Lysias	1,12,14,15,23	Oratory	4th	12,857
Plato	Euthyphro	Dialogue	4th	6,349
Polybius	bk.1,9,10	History	2nd	54,950
Diodorus Sic.	bk.11	History	1st	25,692
Plutarch	bk.11	History	1st/2nd*	22,152
Athenaeus	bk.12,13	Dialogue	2nd/3rd*	45,588
ТОТ				226,053

Table: AGDT: prose (*-dates AD)

Methodological problems





- nominal predication annotated as verb ellipsis
- no way of distinguishing between types of ellipsis
- so how do you look for something that is not there?

...and what do we count?

General sample

- all Pnom governed by einai / #Reconstructed
- distribution of the governing nodes: einai VS #Reconstructed
- 6419 observations (3554, 2865)

Restricted sample

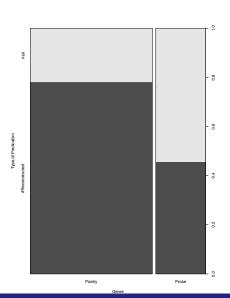
- all Pnom governed by einai / #Reconstructed in
 - □ 3rd p., pres., ind.
 - □ main clauses only
 - both Pnom and Subjects are expressed
- distribution of the governing nodes: einai VS #Reconstructed
- 1489 observations (1058, 431)



1. Distribution: Genres

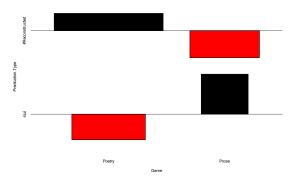
Distributions







Genre and type of predication with Pnom Restricted sample



 χ^2 test: $\chi^2 = 149.185, df = 1, p < 2.2e - 16$





Restricted sample

Nominal	Copula	Tot
24	73	97
34	18	52
22	14	36
44	44	88
2	4	6
7	11	18
51	66	117
	24 34 22 44 2 7	24 73 34 18 22 14 44 44 2 4 7 11



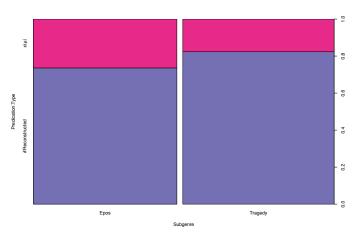


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Plutarch	7	11	18
Athenaeus	51	66	117

Just poetry VS prose?





$$\chi^2$$
 test: $\chi^2 = 11.716, df = 1, p = 0.0006$

Direct speech VS Narrative

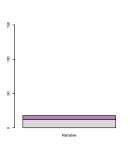


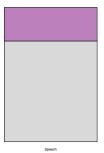
The Odyssey

```
- <q direct="unspecified">
  -<1>
       <milestone unit="para" ed="P"/>
       ώ πόποι, οἷον δή νυ θεούς βροτοὶ αἰτιόωνται:
    </l>
    <Ι>ἐξ ἡμέων γάρ φασι κάκ' ἔμμεναι, οἱ δὲ καὶ αὐτοὶ</Ι>
    <Ι>σφήσιν ἀτασθαλίησιν ὑπὲς μόςον ἄλγε' ἔχουσιν,</Ι>
    < | n="35">ώς καὶ νῦν Αἴγισθος ὑπὲρ μόρον Ατρείδαο</ |>
    <Ι>γημ' άλοχον μνηστήν, τὸν δ' ἔκτανε νοστήσαντα.</Ι>
    <Ι>είδως αίπυν όλεθουν, έπει πρό οι είπομεν ημεις,</Ι>
    Ερμείαν πέμψαντες, ἐύσκοπον ἀργεϊφόντην,</l>
μήτ αὐτὸν κτείνειν μήτε μνάασθαι ἄκοιτιν:</l>
    < | n="40"> έκ γαρ Όρεσταο τίσις ἔσσεται Ατρείδαο.</ |>
    όππότ' ὰν ήβήση τε καὶ ἡς ἱμείρεται αἴης.</l></l><l>ώς ἔφαθ' Ἑρμείας, ἀλλ' οὐ φρένας Αἰγισθοιο</l>
    <|>πείθ' άγαθὰ φρονέων: νῦν δ' άθρόα πάντ' ἀπέτισεν.</|>
  </a>
```

Only 18 cases in narrative...







Type	Narr.	Speech
Nominal	12	147
Copula	6	49

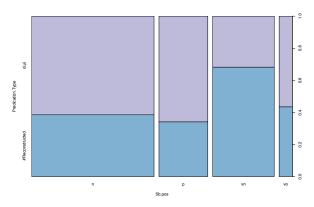


2 Part of Speech of Subjects





Prose authors, restricted sample



$$\chi^2$$
 test: $\chi^2 = 30.9874, df = 3, p = 8.553e - 07$

Subject POS χ^2 residuals²



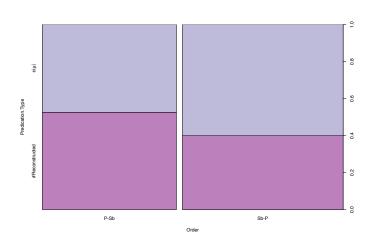
POS	Nominal	Copula
n	2.19176067	1.81710073
р	2.35629693	1.95351113
vn	12.37628866	10.26068376
vo	0.01734481	0.01437988

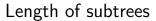


3 Order of the constituents

Pnom-Sb VS Sb-Pnom









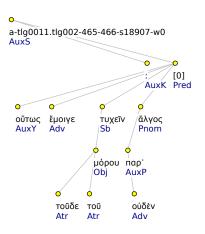
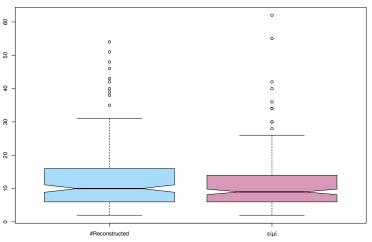


Figure : Length of subtree = 9

Length of subtree

Restricted sample: prose





Conclusions and future work



- Nominal constructions are still relevant in the prose corpus of Classical and Hellenistic period
- 2. In the prose corpus, nominal construction are strongly associated with infinitives
- 3. Length does not seem to
- 4. some ideas for the future:
 - multifactorial analysis: what variable impacts the most? How do they combine?
 - diachrony in Classical and Hellenistic prose/poetry
 - □ perhaps, better crafted sample (?)