

+ digital version of Greek-Portuguese Dictionary

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### Three main tasks



- Decisions about what to align or not
- Different types of translations and its effect on alignment
- Awareness of different translators' choices when comparing translations of the same text.
- Our advantage? without open licensed translations available in Portuguese, we can adjust the translation to the alignment task.
- Disadvantage: Losing artistic metaphors?

- Treebanking annotations
- impact on awareness of morphosyntax dependencies in Greek
  - impact on awareness of **Portuguese** syntax!

Obras/Autores	Tokens já alinhados	Situação
Biblioteca, Apol.	35317	toda a obra traduzida
Héracles, Eur.	1465	300 versos
Ciclope, Eur.	587	40 versos, mas toda obra já traduzida
Máximas, Men.	446	30 sentenças
Prometeu A., Ésq.	117	97 versos
Persas, Ésq.	3524	300 versos
Hist., Heródoto	1807	1.34-1.45
Medeia, Eur.	2310	6-29;115-167;244-58;316-403
Fábulas, Esopo (Bab.)	462	n.19, 20 e 107
Ode 22.5, Anacr.	107	22.5 12 versos
Hist.Pelop., Tuc.	2128	1.89-1.93
TOTAL	48270	

- 2016: begin in March 6 undergraduate classes (for each 3 permanent professors); my case: in 2nd, 3rd and 4th years of the course.
- 50% of undergrats have day jobs or daytime commitments
- 1/5 have 1st degree in other areas
- 2 undergrat. began alignment transl. projects: Xen.'Symp.; Apol. Rhod'Argonautica
- Sunoikisis DC- 1 grad std officially enrolled for credit, w/major in Greek; 4 attending as 'special' - ¼ has major in Greek.

## Greek-Portuguese Digital Dict.



Printed version: 5 vols 2005-2010 1300 pp

Publisher authorizes & gave up digital

Publ.writes new contract

We wait for signatures

Publ. gives files

First digital version?

Dec. 2012

2013

2014

2015

2016



Funding for Scanning
Ancient
Greek OCR

Starting correction No fundings

Testing
Ruben's
first version
tagger

Tagger new version

## minimum tag set for entries

# files in txt alphabetically separated

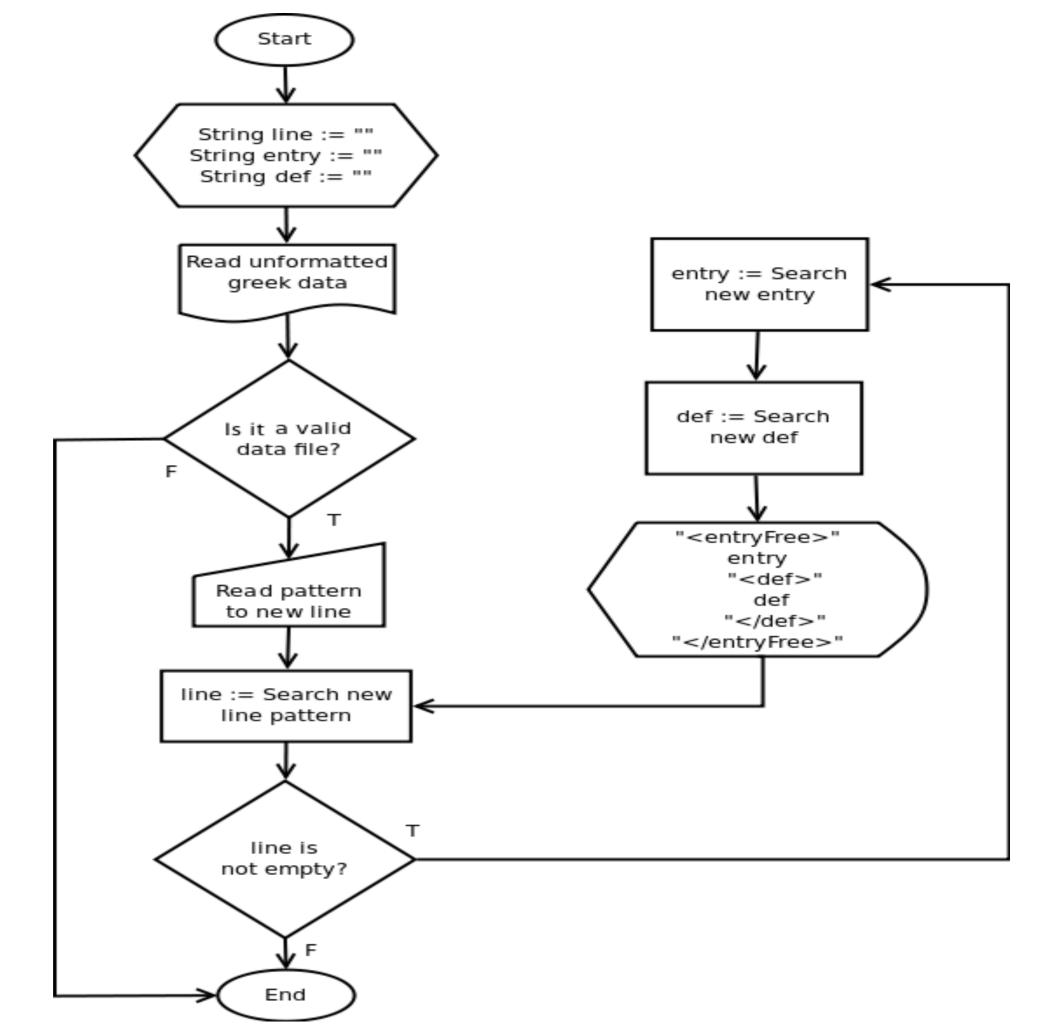
### tagger

### Greek-Portuguese Digital Dictionary Web Tagger

Insert ent	ry pattern:	
Choose a	data file:	
Browse	No file selected.	
Run		

Greek-Portuguese Digital Dictionary Web Tagger 1.0-rc (Rúbens A. Rodrigues e Anise Ferreira FCLAr/UNESP)

http://mercurio.fclar.unesp.br/tagger/



## tagger: next steps

#### From the easiest to the hardest

- <etym> tag marked with <> U+27E9
- authors' abbr. in examples: hom. plat.
  - numbered senses <sense> each with one def. Ex.:
- <sense n="1"> <def> xxxxxxx</def> </sense>
- examples in block
- linking examples to sources (manually?)

### why examples seem difficult?

### (Senses/definitions)

- 1 (pessoa) ter vindo; ter chegado; acabar de chegar a um lugar ou situação, ac. ou εἰς e ac., até alguém, dat. ou  $\pi\alpha\varrho\dot{\alpha}$  e ac.
- 2 (coisa) ter vindo; chegar até alguém ou um local, dat.
- 3 (coisa) dizer respeito a; concernir a algo ou alguém, εἰς, ἐπί, πρός e ac.
- 4 com adv. εὖ ου καλῶςἥκειν ir bem; sair-se bem

### (Examples)

1 μάλα τηλόθεν ἥκω hom. venho de muito longe, ἰσθμὸν Κιμμερικὸν ἥξεις ésql. chegarás ao Istmo Cimérico, οὐ γὰρ ởἵω ἥκειν εἰς Ἰθάκην hom. pois não acredito que me encontro em Ítaca, ἥκειν πρὸςπόλιν sóf. chegar perto da cidade, ἥκουσιν αὐτῷ ἄγγελοι xen. vêm até ele os mensageiros, αὐτὰ ταῦτα ἥκω παρὰ σέ plat. é exatamente por isso que venho a ti, εἰς τοσοῦτον ἀμαθίας ῆκω ὥστε plat. chego a tal ponto de ignorância que, εἰςτοσήνδ᾽ ὕβριν ῆκειν sóf. chegar a tal ponto de desmedida, οὕτω πόρρω σοφίας ἥκεις plat. chegaste a este ponto de sabedoria

2 ήκει ἦμαρ ésql. chegou o dia, ήξει πόλεμος tuc. uma guerra sobrevirá, ποῖ λόγοι ἥκει; eur. aonde levará este argumento? ἐμοὶ ἀγγελίη ἥκει παρὰ βασιλέος her. chegou-me uma mensagem do rei, δώμασιν ἡμετέροις φάτις ἥκει ar. à nossa casa chegou um rumor 3 ὅσα ἐπὶ τὴν πρεσβείαν ἦκε dem. tudo quanto à embaixada concernia, εἰςἔμ' ῆκει

### solutions?

```
<entryFree>χρεία, ας (ἡ) <def>
  t>
<item>1 emprego; uso; utilidade; serventia </item>
<item>2 serviço; ocupação; função </item>
<item>3 modo de relacionar-se com alguém, gen. ou πρός e ac.; convívio </item>
<item>4 objeto que se usa; apetrecho; equipamento </item>
<item>5 matéria de discussão; assunto tratado </item>
...(cont. 6-9)
</list>
<cit type="example">
  <quote type="list">
  <list rend="numbered">
<item>1 τὰ οὐδὲν εἰς χρείαν dem. as coisas que não têm nenhuma serventia, χρεία τῶν ὀνομάτων plut.
emprego das palavras, χρείαν ἔχειν τοῖς ἀνθρώποις plat. ter utilidade para os homens </item>
<item>2 ἡ πολεμικὴ χρεία καὶ ἡ εἰρηνική artt. a ocupação em tempo de guerra e em tempo de paz, χρείαι
πολιτικαί plut. serviços públicos, καταστήσομαι ἐπὶ τῆς χρείας n.t. nós os [os homens de confiança]
empregaremos nessa função </item>
<item>3 συνεβίω Άμύντα ἰατροῦ καὶ φίλου χρεία d.l. convivia com Amintas numa relação de médico e
amigo, ἐν αὐτῶν τούτων χρείᾳ τινὶ τῇ πρὸς ἀλλήλους plat. em alguma relação dessas pessoas entre si </
item>
<item>4 χρεῖαι ναυτικαί el. equipamento de um navio </item>
<item>5 ρῆμα πρὸς τὴν προκειμένην χρείαν ἀνάρμοστον plut. palavra que não tem relação com o assunto
proposto </item>
... (cont. 6-9)
```

#### χρεία, ας (ἡ)

- 1 emprego; uso; utilidade; serventia
- 2 serviço; ocupação; função
- 3 modo de relacionar-se com alguém, gen. ou πρός e ac.; convívio
- · 4 objeto que se usa; apetrecho; equipamento
- 5 matéria de discussão; assunto tratado
- 6 máxima; sentença; dito espirituoso
- 7 proveito; vantagem no uso de algo
- 8 necessidade; carência; falta de algo ou alguém, gen.
- 9 privação; indigência, pobreza
  - 1 τὰ οὐδὲν εἰς χρείαν dem. as coisas que não têm nenhuma serventia,
     ἔχειν τοῖς ἀνθρώποις plat. ter utilidade para os homens
  - 2 ἡ πολεμικὴ χρεία καὶ ἡ εἰρηνική artt. a ocupação em tempo de guerra públicos, καταστήσομαι ἐπὶ τῆς χρείας n.t. nós os [os homens de confiai
  - 3 συνεβίω Άμύντα ἰατροῦ καὶ φίλου χρεία d.l. convivia com Amintas nun τῆ πρὸς ἀλλήλους plat. em alguma relação dessas pessoas entre si
  - 4 χρεῖαι ναυτικαί el. equipamento de um navio
  - 5 ῥῆμα πρὸς τὴν προκειμένην χρείαν ἀνάρμοστον plut. palavra que não
  - 6 ἡ χρεία τοῦ Κλεομένους plut. a máxima de Cleômenes, Ζἡνων δ' ὁ Κι προσράψαι τῷ τρἰβωνι ἀνεπιστρεπτοῦντα. d.l. Zenão de Cítio nas "Máxii manto, sem importar-se com isso
  - 7 ἑξήκοντα καὶ τριακόσια χρειῶν γένη παρέχον αὐτοῖς τὸ δένδρον plut. a de usos
  - 8 ἔτ' ἐμοῦ χρείαν ἔξει ésql. ainda terá necessidade de mim, χρεία φαρμ remédios, ἰατρῶν ἐν χρείαις ἐσόμεθα plat. precisaremos de médicos, ἐγ ser batizado por ti, διὰ χρείαν xen., διὰ τὴν χρείαν plat., ὑπὸ χρείας plut
  - 9 χρείαι τολμᾶν βιάζονται antif. as privações forçam a audácia.

## other steps?

- to link examples to sources annotating the Citation URI?
- POS of headwords?
   <entryFree>ήθικῶς<def> <pos>adv.</pos>
   1 conforme a ética....</def></entryFree>

Which one would be priority?

### Question

 Are the current tags w/ a teiHeader enough to put the dictionary online?

## alignments & treebanking with Portuguese

- different approaches
- alignment particularities and alignment conventions
- main difficulties found

### Different approaches

- align w/ personal translation in Portuguese
- align w/ two different given translations in Portuguese
- align w/ a given translation > tree banking
   > own translation

• • • •

### @Sunoikisis

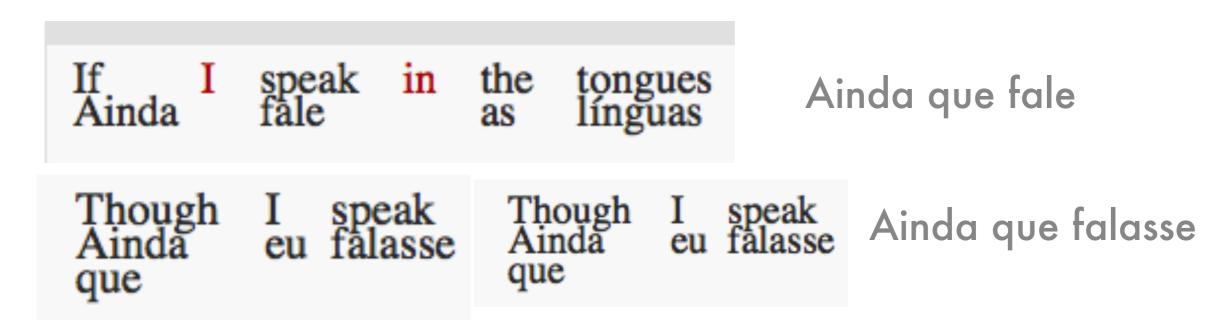
- align Portuguese & English translations
- align Greek & Port, without familiarity with Greek
- align Greek & Port
- treebanking annotations

### editions

- Paul's Epistle Corinthians 1.13
  - Greek <a href="http://data.perseus.org/citations/">http://data.perseus.org/citations/</a>
     urn:cts:greekLit:tlg0031.tlg007.perseus-grc1:13
  - English(1) Perseus' Rainbow Missions 1901
  - English(2) K.James. Holy Bible. 1611
  - Portuguese (1): Jerusalem's Bible. Paulinas Edition, 1989.
  - Portuguese (2): Ellen G. White Writings

## English & Portuguese

 Verbs in Port: person inflected in majority of tenses; in English, not inflected



subjunctive in Port and Gr.

• => Greek 'Εὰν ταῖς γλώσσαις τῶν ἀνθρώπων λαλῶ

## English & Portuguese

Prepositions + articles

```
tongues of men and of angels aligned

dos homens e dos anjos not aligned

tongues of men and of angels aligned
```

Vocabulary choices

```
caridade
não
      tivesse
                a
                                     tiver
                                            amor
                                                       ἀγάπην
      have
                    charity
not
                                            love
                                     have
                                                   queimado
burned
                     próprio
    entregue
                               corpo
body
               meu
                                       para
to
                                              ser
    give
               my
```

## Greek & Portuguese

### Unexpected finding

```
κὰν παραδῶ τὸ σῶμά μου , ἴνα καυχήσωμαι ainda entregasse o corpo meu , ås as chamas chamas

eu entregue meu próprio corpo para ser queimado body to be burned

καυχήσωμαι confused with καυθήσωμαι.
```

καυχήσωμαι confused with καυθήσωμαι. καυχάομαι, to boast, with καίω, to burn,

```
give over my body to hardship that I may boast entregue
```

si tradidero corpus meum ut ardeam

### Greek & Portuguese

aligning multiple words

```
έχ μέρους προφητεύομεν limitada a nossa profecia
```

inclusion of a reflexive pronoun "SE" χαίρει = alegra-se pronominal verb in Port.

transformations: ἐκ μέρους> is limited verbo to noun: we prophesy > our prophecy

### some of alignment conventions (17)

- εἰς τὴν > à (prep. + article)
- Ἡρακλεῖ => para Hércules
   (cases > prep + noun)
- ὁ Περικλέους, ο filho de Péricles
- oi vûv > follows transl.
- ὁ δὲ οὐκ ἔφη follows transl.
   "E ele disse que não".
- τυγχάνω / λανθάνω + participle> as adverbial phrase

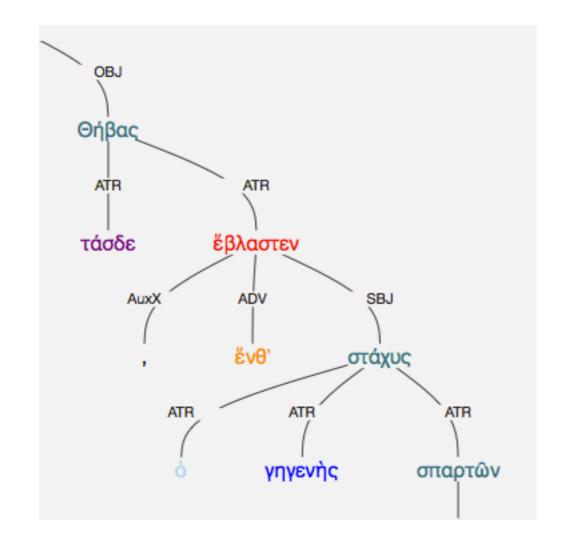
- ďv w/ verb
- ὅταν, ἐὰν, etc >conjunct.
   phrase. w/ "que"
- adverbial participles > conjunctions w/ finite verbs
- adjective participles> w/ relative pronoun
- no article in Greek > w/ indefinite article in Portuguese

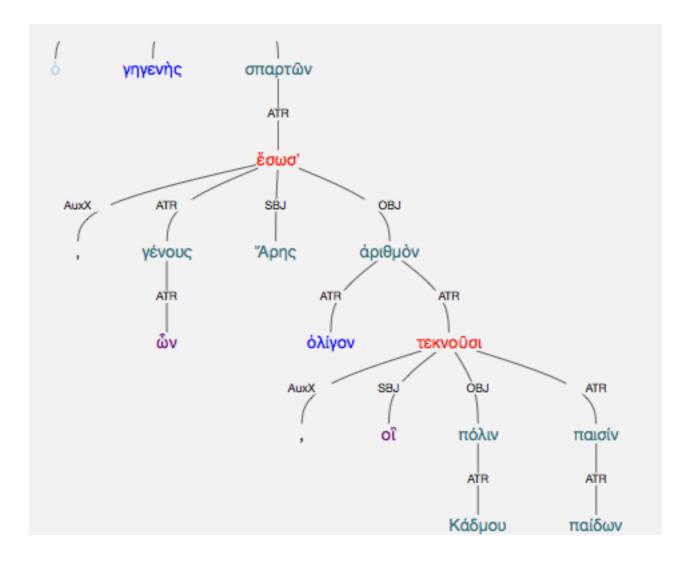
### some treekbanking difficulties

- Related to Port.: translation of to be, εἰμι as = there to be = haver always in 3rd p. s. there is X, and X is the Subject.
- δεῖ = é preciso it is necessary + Inf. where the inf. is the subject. Example from the fable : ἔδει με...μαχελλάριον ὄντα αὐλητήν μή μιμεῖσθαι The transl. in Port. changed to "I shouldn't imitate a flute player, being a butcher" changing the first person into subject; being an object in Greek.

### some treekbanking difficulties

• Relative clauses: δς τάσδε Θήβας ἔσχον, ἔνθ' ὁ γηγενης σπαρτῶν στάχυς ἔβλαστεν, ὧν γένους Ἄρης ἔσωσ' ἀριθμὸν ὀλίγον, οι Κάδμου πόλιν τεχνοῦσι παίδων παισίν.





### some treekbanking difficulties

 beginners: same subject to the finite verb and adverbial sentences in participle. For example:

