Supported by an ATI grant, University of Chicago

Thank you to our disambiguators: Kristin Dean, Charlotte Krontiris, and Ursula Poole

Technical support from ARTFL

IMPLEMENTING GREEK MORPHOLOGY

Digital Humanities 2009

Helma Dik & Richard Whaling, University of Chicago

perseus.uchicago.edu

The texts in our system come from the Perseus Project. We have made them searchable by string, lemma, and morphological attributes.

PERSEUS DIGITAL LIBRARY
GREGORY R. CRANE, EDITOR-IN-CHIEF
TUFTS UNIVERSITY

On its own website, Perseus offers Greek texts and a word study tool to go along with it.

```
<?xml version="1.0" encoding="utf-8"?>
<TEI.2><text><group><text n="Apol."><body><p><milestone unit="section"
n="17a" /><milestone ed="P" unit="para" />O(/TI ME\N U(MEI=S,W)= A)/
NDRES *)AQHNAI=OI, PEPO/NQATE U(PO\ TW=N E)MW=N KATHGO/
RWN, OU)K OI)=DA: E)GW\ D' OU)=N KAI\ AU)TO\S U(P' AU)TW=N O)LI/
GOU E)MAUTOU= E)PELAQO/MHN, OU(/TW PIQANW=S E)/LEGON. KAI/
TOI A)LHQE/S GE W(S E)/POS EI)PEI=N OU)DE\N EI)RH/KASIN. MA/LISTA
DE\ AU)TW=N E(\N E)QAU/MASA TW=N POLLW=N W(=N E)YEU/SANTO,
TOU=TO E)N W(=| E)/LEGON W(S XRH=N U(MA=S EU)LABEI=SQAI MH\
U(P' E)MOU= E)CAPATHQH=TE
</p></body></text></group></text></TEI.2>
```

Above, a snippet of XML; left, display in Unicode; below, a look at the word study tool in Perseus.

[17α]
ὅτι μὲν ὑμεῖς, ὦ ἄνδρες Ἀθηναῖοι, πεπόνθατε ὑπὸ τῶν ἐμῶν κατηγόρων, οὐκ οἶδα: ἐγὼ δ᾽ οὖν καὶ αὐτὸς ὑπ᾽ αὐτῶν ὀλίγου ἐμαυτοῦ ἐπελαθόμην, οὕτω πιθανῶς ἔλεγον. καίτοι ἀληθές γε ὡς ἔπος εἰπεῖν οὐδὲν εἰρήκασιν.

ἐμέω vomit, throw up
(Show lexicon entry in LSJ Middle Liddell Autenrieth) (search)

ἐμῶν	part sg fut part act masc nom	no user votes	4.3%	[vote]
ἐμῶν	part sg pres part act masc nom	no user votes	12.7%	[vote]

Word Frequency Statistics (more statistics)

Words in Corpus	Max	Max/10k	Min	Min/10k	Corpus Name
40,841	146	35.748	0	0	Plato, Apology

ἐμός mine
(Show lexicon entry in LSJ Middle Liddell Slater Autenrieth) (search)

ἐμῶν	adj pl fem gen	no user votes	25.3%	[vote]
ἐμῶν †	adj pl masc gen	no user votes	30.1%	[vote]
ἐμῶν	adj pl neut gen	no user votes	27.6%	[vote]

While Perseus keeps track of user voting, morphology is not searchable. All in all, the emphasis is on on-the-spot assistance to a linear reader.

Output from Morpheus, Perseus's module for morphological analysis.

```
u(po\
<NL>N u(po/,u(po/ indeclform prep</NL>
tw=n
<NL>N o( fem gen pl indeclform article</NL>
<NL>N o( masc/neut gen pl indeclform article</NL>
e)mw=n
<NL>P e)me/w fut part act masc nom sg attic epic doric contr ew_fut,e_stem</NL>
<NL>P e)me/w pres part act masc nom sg attic epic doric contr ew_pr,e_stem</NL>
<NL>N e)mo/s fem gen pl os_h_on</NL>
<NL>N e)mo/s masc/neut gen pl os_h_on</NL>
kathgo/rwn
<NL>N kath/goros masc/fem/neut gen pl os_on</NL>
ou)k
<NL>N ou) proclitic indeclform adverb</NL>
oi)=da
<NL>V oi)=da perf ind act 1st sg ath_primary</NL>
```

SEARCH BROWSE HELP CORRECT
THE ILIAD THE ODYSSEY THEOGONY WORKS AND DAYS SHIELD

IL.1.1 **μῆνιν ἀειδε θεὰ [1]Πηληϊάδεω Ἀχιλῆος[1]**
IL.1.1 **SING, goddess, the anger of Peleus' son Achilleus**

IL.1.2 οὐλομένην, ἣ μυρί᾽ Ἀχαιοῖς [2]ἄλγε' [3]ἔθηκε,[2]
IL.1.2 and its devastation, which put pains thousandfold upon the Achaians,

IL.1.3 πολλὰς δ'[3] ἰφθίμους ψυχὰς [4]Ἄϊδι προΐαψεν[4]
IL.1.3 hurled in their multitudes to the house of Hades strong souls

IL.1.4 ἡρώων, αὐτοὺς δὲ ἑλώρια τεῦχε κύνεσσιν
IL.1.4 of heroes, but gave their bodies to be the delicate feasting

IL.1.5 οἰωνοῖσί τε [5]πᾶσι, [6[7]Διὸς[5] δ' ἐτελείετο[7] βουλή,[6]
IL.1.5 of dogs, of all birds, and the will of Zeus was accomplished

IL.1.6 ἐξ οὗ δὴ τὰ πρῶτα διαστήτην ἐρίσαντε
IL.1.6 since that time when first there stood in division of conflict

IL.1.7 Ἀτρεΐδης τε [8]ἄναξ ἀνδρῶν[8] [9]καὶ [10]δῖος Ἀχιλλεύς.[9][10]
IL.1.7 Atreus' son the lord of men and brilliant Achilleus.

The Chicago Homer. Martin Mueller graciously allowed us the use of his disambiguated Homeric texts.

We converted the disambiguated Homer into TreeTagger format:

μῆνιν	n--s---fa-	μῆνις
ἄειδε	v-2spma---	ἀείδω
θεὰ	n--s---fv-	θεά
Πηληϊάδεω	ne-s---mg-	Πηληϊάδης
Ἀχιλῆος	ne-s---mg-	Ἀχιλλεύς
οὐλομένην	a--s---fa-	οὐλόμενος
,	COMM	,
ἣ	pr-s---fn-	ὅς
μυρί᾽	a--p---na-	μυρίος

Tree-Tagger training input contains the text and punctuation, one token per line, the part-of-speech code, and the lemma.

The problem with the disambiguated data that are available, Homer and the New Testament, is that they are not from the Classical period. So we did our own in-house disambiguation on classical texts.

Θουκυδίδης Ἀθηναῖος ξυνέγραψε τὸν πόλεμον τῶν Πελοποννησίων καὶ Ἀθηναίων, ὡς ἐπολέμησαν πρὸς ἀλλήλους, ἀρξάμενος εὐθὺς καθισταμένου καὶ ἐλπίσας μέγαν τε ἔσεσθαι καὶ ἀξιολογώτατον τῶν προγεγενημένων, τεκμαιρόμενος ὅτι ἀκμάζοντές τε ἦσαν ἐς αὐτὸν ἀμφότεροι παρασκευῇ τῇ πάσῃ καὶ τὸ ἄλλο Ἑλληνικὸν ὁρῶν ξυνιστάμενον πρὸς ἑκατέρους, τὸ μὲν εὐθύς, τὸ δὲ καὶ διανοούμενον.

κίνησις γὰρ αὕτη μεγίστη δὴ τοῖς Ἕλλησιν ἐγένετο καὶ μέρει τινὶ τῶν βαρβάρων, ὡς δὲ εἰπεῖν καὶ ἐπὶ πλεῖστον ἀνθρώπων.

προγεγενημένων	Token #27
προγίγνομαι	
verb perfect middle-passive participle feminine genitive plural	0.333333
verb perfect middle-passive participle masculine genitive plural	0.333333
verb perfect middle-passive participle neuter genitive plural	0.333333

Comment

The texts transformed: First of all, converted to Unicode..

```
<milestone unit="section" n="17a"/>ὅτι μὲν ὑμεῖς, ὦ ἄνδρες Ἀθηναῖοι,
πεπόνθατε ὑπὸ τῶν ἐμῶν κατηγόρων, οὐκ οἶδα· ἐγὼ δ᾽ οὖν καὶ
αὐτὸς ὑπ᾽ αὐτῶν ὀλίγου ἐμαυτοῦ ἐπελαθόμην, οὕτω πιθανῶς
ἔλεγον. καίτοι ἀληθές γε ὡς ἔπος εἰπεῖν οὐδὲν εἰρήκασιν. μάλιστα
δὲ αὐτῶν ἓν ἐθαύμασα τῶν πολλῶν ὧν ἐψεύσαντο, τοῦτο ἐν ᾧ
ἔλεγον ὡς χρῆν ὑμᾶς εὐλαβεῖσθαι μὴ ὑπ᾽ ἐμοῦ ἐξαπατηθῆτε
<milestone unit="section" n="17b"/>
```

Then tokenized and given word id-s.

```
<w id="3708995">ὅτι</w> <w id="3708996">μὲν</w>
<w id="3708997">ὑμεῖς</w>, <w id="3708999">ὦ</w>
<w id="3709000">ἄνδρες</w> <w id="3709001">Ἀθηναῖοι</w>,
<w id="3709003">πεπόνθατε</w> <w id="3709004">ὑπὸ</w>
<w id="3709005">τῶν</w> <w id="3709006">ἐμῶν</w>
<w id="3709007">κατηγόρων</w>, <w id="3709009">οὐκ</w>
<w id="3709010">οἶδα</w>· <w id="3709012">ἐγὼ</w>
<w id="3709013">δ᾽</w> <w id="3709014">οὖν</w>
<w id="3709015">καὶ</w> <w id="3709016">αὐτὸς</w>
<w id="3709017">ὑπ'</w> <w id="3709018">αὐτῶν</w>
<w id="3709019">ὀλίγου</w> <w id="3709020">ἐμαυτοῦ</w>
<w id="3709021">ἐπελαθόμην</w>, <w id="3709023">οὕτω</w>
<w id="3709024">πιθανῶς</w> <w id="3709025">ἔλεγον</w>.
<w id="3709027">καίτοι</w> <w id="3709028">ἀληθές</w>
<w id="3709029">γε</w> <w id="3709030">ὡς</w>
<w id="3709031">ἔπος</w> <w id="3709032">εἰπεῖν</w>
<w id="3709033">οὐδὲν</w> <w id="3709034">εἰρήκασιν</w>.
```

TreeTagger

Documented in Helmut Schmid (1995), Improvements in part-of-speech tagging with an application to German. In Proceedings of the ACL SIGDAT-Workshop. http://www.ims.uni-stuttgart.de/ftp/pub/corpora/tree-tagger2.pdf

A proprietary part of speech tagger that uses decision trees, rather than a pure Markov model, to tag and lemmatize input streams. This allows it to handle infrequent tags accurately and elegantly.

```
ὅτι  c---------  ὅτι 0.988714
μὲν  g---------  μέν 1.000000
ὑμεῖς  pp-p----n-  σύ 1.000000
,  COMM  , 1.000000
ὦ  e---------  ὦ 0.997647
ἄνδρες  n--p----mv-  ἀνήρ 0.646358  n--p----mn-  ἀνήρ 0.353658
Ἀθηναῖοι  ae-p---mv-  Ἀθηναῖος 0.797537  a--p---mv-  Ἀθηναῖος 0.139543
  a--p----mn-  Ἀθηναῖος 0.061608
,  COMM  , 1.000000
πεπόνθατε  v-2piia---  πάσχω 1.000000
ὑπὸ  r---------  ὑπό 1.000000
τῶν  pa-p----mg-  ὁ 0.515810  pa-p----ng-  ὁ 0.317349  pa-p---fg-  ὁ 0.166840
ἐμῶν  ps-p----mg-  ἐμός 0.514341  ps-p----ng-  ἐμός 0.480822
κατηγόρων  a--p----fg-  κατήγορος 0.828829  n--p----mg-  κατήγορος 0.171051
,  COMM  , 1.000000
οὐκ  d---------  οὐ 1.000000
οἶδα  v-1rlia---  οἶδα 1.000000
·  SENT  · 1.000000
ἐγὼ  pp-s----n-  ἐγώ 1.000000
δ᾽  g---------  δέ 1.000000
οὖν  g---------  οὖν 1.000000
καὶ  c---------  καί 0.981171 d---------  καί 0.018817
```

We project the 1,844 extant configurations of case, gender, tense, voice, etc., onto a homogeneous string format for tagging, storage, and retrieval.

In addition to the training input of any part of speech tagger, TreeTagger also accepts a lexical database as input. We initially trained TreeTagger with approximately 100,000 words from the New Testament, supplemented with the output of Morpheus for our entire corpus.

SQLite is the heart of our system — most of our development effort has gone into middleware and GUI's for getting data in and out of it.

SQLite

- Master Table (1)
- Tables (5)
  - Lexicon
  - parses
  - shortdefs
  - tokens
  - votes
- Views (0)
- Indexes (5)
  - file_seq
  - headwordlookup
  - headwords
  - parse_tokens
  - vote_index
- Triggers (0)

We compile the data from Perseus, Morpheus, and TreeTagger into 3 relational tables. Two further tables record user votes and short definitions.
After the database has been seeded, we can stream tokens in and out of TreeTagger on demand. This allows us to update our parses as we accumulate more training data.

Token table

tokenid	content	seq	type	file
3708995	ὅτι	2	word	PlatoApology
3708996	μὲν	3	word	PlatoApology
3708997	ὑμεῖς	4	word	PlatoApologyGr.xml
3708998	,	5	punct	PlatoApologyGr.xml
3708999	ὦ	6	word	PlatoApologyGr.xml
3709000	ἄνδρες	7	word	PlatoApologyGr.xml
3709001	Ἀθηναῖοι	8	word	PlatoApologyGr.xml
3709002	,	9	punct	PlatoApologyGr.xml
3709003	πεπόνθατε	10	word	PlatoApologyGr.xml
3709004	ὑπὸ	11	word	PlatoApologyGr.xml
3709005	τῶν	12	word	PlatoApologyGr.xml
3709006	ἐμῶν	13	word	PlatoApologyGr.xml
3709007	κατηγόρων	14	word	PlatoApologyGr.xml
3709008	,	15	punct	PlatoApologyGr.xml
3709009	οὐκ	16	word	PlatoApologyGr.xml
3709010	οἶδα	17	word	PlatoApologyGr.xml
3709011	·	18	punct	PlatoApologyGr.xml

Parse table, fed by TreeTagger and approved votes, feeds TreeTagger in its turn.

parseid	tokenid	lex	code	lemma	authority	file	prob
6189562	3709003	480649	NULL	NULL	NULL	NULL	1
6189563	3709004	619718	NULL	NULL	NULL	NULL	1
6189564	3709005	611103	NULL	NULL	NULL	NULL	0.515
6189565	3709005	611104	NULL	NULL	NULL	NULL	0.317349
6189566	3709005	611102	NULL	NULL	NULL	NULL	0.16684
6189567	3709006	205678	NULL	NULL	NULL	NULL	0.514341
6189568	3709006	205679	NULL	NULL	NULL	NULL	0.480822
6189569	3709007	343604	NULL	NULL	NULL	NULL	0.444227
6189570	3709007	343605	NULL	NULL	NULL	NULL	0.384722
6189571	3709007	343603	NULL	NULL	NULL	NULL	0.171051
6189572	3709009	450900	NULL	NULL	NULL	NULL	1

Lexicon

id	token	code	lemma	alt_lsj
205670	ἐμῷ	ps-s---md-	ἐμός	NULL
205671	ἐμῷ	ps-s---nd-	ἐμός	NULL
205672	ἐμῶι	ps-s---md-	ἐμός	NULL
205673	ἐμῶι	ps-s---nd-	ἐμός	NULL
205674	ἐμωμήσω	v-2saim---	μωμάομαι	NULL
205675	ἐμῶν	v--sfpamn-	ἐμέω	NULL
205676	ἐμῶν	v--sppamn-	ἐμέω	NULL
205677	ἐμῶν	ps-p---fg-	ἐμός	NULL
205678	ἐμῶν	ps-p---mg-	ἐμός	NULL
205679	ἐμῶν	ps-p---ng-	ἐμός	NULL
205680	ἐμώραvεν	v-3saia---	μωραίνω	NULL
205681	ἓν	m--s---nn-	εἷς	NULL
205682	ἓν	m--s---nv-	εἷς	NULL
205683	ἓν	m--s---na-	εἷς	NULL
205684	ἓν	v-3paia---	ἵημι	NULL
205685	ἓν	v--sapamn-	ἵημι	NULL
205686	ἓν	v--sapanv-	ἵημι	NULL
205687	ἓν	v--sapana-	ἵημι	NULL
205688	ἓν	m--s---nn-	εἷς	NULL

Short definitions

38387	ἐμνιωβέλιον	
38388	ἔμος	
38389	ἐμός	mine
38390	ἐμοῦς	suretyship
38391	ἐμπαγή	
38392	ἐμπάγνυμι	fix in
38393	ἐμπάζομαι	to busy oneself about, take heed of, care for

Looking up word 3758945 PrvNxt

ἐμός	(Look up in LSJ, Autenrieth, Slater, Middle Liddell)	
mine		
ἐμῶν	possessive pronoun neut. gen. pl.	1
ἐμῶν	possessive pronoun fem. gen. pl.	0
ἐμῶν	possessive pronoun masc. gen. pl.	0

ἐμέω	(Look up in LSJ, Autenrieth, Slater, Middle Liddell)	
to vomit, throw up		
ἐμῶν	present active participle masc. nom. sg.	0
ἐμῶν	future active participle masc. nom. sg.	0

Look Up A Word

Green indicates a parse endorsed by us.

But what if the TreeTagger parse, indicated in light blue, is off? That's where we hope our users will help..

Votes held in quarantine

voteid	tokenid	parseid	lexid
4	3709006	NULL	205676
5	3709006	NULL	205676
6	3709006	NULL	205677

The big question: Will users start voting in significant numbers? We'll get back to you on that one!

Crowd sourcing in action: Yellow indicates a user vote.

Looking up word 3709006 PrvNxt

ἐμός	(Look up in LSJ, Autenrieth, Slater, Middle Liddell)	
mine		
ἐμῶν	possessive pronoun masc. gen. pl.	0.514341
ἐμῶν	possessive pronoun neut. gen. pl.	0.480822
ἐμῶν	possessive pronoun fem. gen. pl.	0

ἐμέω	(Look up in LSJ, Autenrieth, Slater, Middle Liddell)	
to vomit, throw up		
ἐμῶν	present active participle masc. nom. sg.	0
ἐμῶν	future active participle masc. nom. sg.	0

Look Up A Word

Visible are light-green, for parses by a single person, brighter for agreement of more than one, and red for disagreement. Below, three parses identified by the system and space for comments.

Finally, all roads lead to Philologic! Its powerful indexing now also keeps track of the morphological information.

PhiloLOGIC

A user can still search and browse the texts, see translations, and full dictionary entries.

PERSEUS DIGITAL LIBRARY AT TUFTS ARTFL PROJECT CLASSICS AT CHICAGO

Perseus Greek Texts

search help report a problem Pl. Ap. 17a Citation Lookup

Plato, *Apology* (XML Header) [genre: prose] [word count] [**Pl. Ap.**].

<<Pl. Ap. 17a Pl. Ap. 17a (English) >>Pl. Ap. 18a

17a ὅτι μὲν ὑμεῖς, ὦ ἄνδρες Ἀθηναῖοι, πεπόνθατε ὑπὸ τῶν ἐμῶν κατηγόρων, οὐκ οἶδα · ἐγὼ δ' οὖν καὶ αὐτὸς ὑπ' αὐτῶν ὀλίγου ἐμαυτοῦ ἐπελαθόμην, οὕτω πιθανῶς ἔλεγον. καίτοι ἀληθές γε ὡς ἔπος εἰπεῖν οὐδὲν εἰρήκασιν. μάλιστα δὲ αὐτῶν ἓν ἐθαύμασα τῶν πολλῶν ὧν ἐψεύσαντο, τοῦτο ἐν ᾧ ἔλεγον ὡς χρῆν ὑμᾶς εὐλαβεῖσθαι μὴ ὑπ' ἐμοῦ ἐξαπατηθῆτε

But searching by lemma.. (find me 'my')

Search for:
lemma:ἐμός Search Clear
Orthography: Accented Accentless Romanized
Display: Context KWIC Similarity Search

by morphology.. (find me a possessive pronoun)

Search for:
pos:ps* Search Clear
Orthography: Accented Accentless Romanized
Display: Context KWIC Similarity Search

or by a combination of criteria (find me a 3rd singular form of the verb δοκέω followed by personal pronoun in the dative).. is all there as well.

Search for:
lemma:dokew;pos:v-3s* pos:pp*d- Search Clear
Orthography: Accented Accentless Romanized
Display: Context KWIC Similarity Search

Clicking on a word will bring up the parse information, and provides links to the dictionaries.

The identification of the form and its short definition (derived from the Middle Liddell).

Looking up word 3709006 PrvNxt

ἐμός	(Look up in LSJ, Autenrieth, Slater, Middle Liddell)	
mine		
ἐμῶν	possessive pronoun masc. gen. pl.	0.514341
ἐμῶν	possessive pronoun neut. gen. pl.	0.480822
ἐμῶν	possessive pronoun fem. gen. pl.	0

ἐμέω	(Look up in LSJ, Autenrieth, Slater, Middle Liddell)	
to vomit, throw up		
ἐμῶν	present active participle masc. nom. sg.	0
ἐμῶν	future active participle masc. nom. sg.	0

Look Up A Word

ABOUT THIS RESOURCE PERSEUS DIGITAL LIBRARY AT TUFTS ARTFL PROJECT CLASSICS AT CHICAGO

Liddell & Scott

search help report a problem ἐμέω Headword Lookup abbreviations

Henry George Liddell; Robert Scott [**1940**], *A Greek-English Lexicon* (Trustees of Tufts University, Oxford) [word count] [**greatscott23**].

Previous Entry Next Entry

The full entry in the lexicon the user selected; navigate to another entry with the search box or via a full-fledged search.

ἐμός, ή, όν, possess. Pron. of 1st pers.: (ἐγώ, ἐμοῦ):—

I *mine*; contr. with the Art., *οὐμός, τοὐμόν, τοὐμοῦ, τὠμῷ, τἀμά*, Trag. (not Com., *τἀμὰ γὰρ διοίχεται* is paratrag. in *Ar.Ec.393*), rarely in Prose, οὐμός *Pl.Ep.354c*; τἀμά *Id.Plt.258b*; *οὐμός* even in *Il.8.360*; and (acc. to some Gramm.) τὠμῷ *11.608*, *Od.4.71*; τἠμῇ *Il.9.654*:—poet. ἀμός (q.v.):

I with a Subst.:

1 subjectively, *mine, of me*, ἐμὰ δάκρυα *Il.1.42*; *χεῖρες ἐμαί* ib.*166*; ἐμός τε πατὴρ καὶ σός *Hes.Op.633*: with the Art., τὸν ἐμὸν χόλον *Il.4.42*, etc.: in Poets sts. joined with gen., to strengthen the possessive notion, *ἐμὸν αὐτοῦ mine* own, *6.446*, *Od.2.45*; δαὴρ . . ἐμὸς ἔσκε κυνώπιδος *Il.3.180*; θρῆνον ἐμὸν τὸν αὐτῆς *A.Ag.1323*; τἀμὰ δυστήνου κακά *S.OC344*, *cf.El.252*; τὸν ἐμὸν αὐτοῦ . . βίον *Ar.Pl.33*.

b *mine*, i.e. *favourable to me*, τεκμήρια ἐμά, οὐ τούτων *Antipho 2.4.10*.

2 objectively, *relating to me, against me*, ἐμὴ ἀγγελίη *Il.19.336*; τὸν ἐμὸν γάμον *Od.2.97*; *τὴν ἐμὴν αἰδῶ* respect *for me*, *A.Pers.699* (troch.); *τἀμὰ νουθετήματα* warnings *to me*, *S.El.343*; *τὠμῷ πόθῳ* by love *for me*, *Id.OT969*; *αἱ ἐμαὶ διαβολαί* slanders *against me*, *Th.6.90*; *δωρεὰ ἐμή* a gift *to me*, *X.Cyr.8.3.32*; sts. with another gen. added, *τὰς ἐμὰς Λαΐου διαφθοράς* murder of L. *by me*, *S.OT572*; *τοὐμὸν αἷμα πατρός* his blood shed *by me*, ib.*1400*; *τὰ ἐμὰ δῶρα Κύπριδος* (Dind. for *Κύπρις*) her gifts *to me*, *E.Hel.364* (anap.).

II without a Subst., *mine*, *οὐ γὰρ ἐμὸν παλινάγρετον my word*, *Il.1.526*; *τὸ μὲν ἐμόν* [*ἐστι*] 'tis *my counsel*, *Pi.I.8(7).42*: in Trag. and Prose, it is *my duty, my business*, *E.Ion1020*, *Pl.Lg. 664b*.

2 *ἐμοί my friends*, *Il.20.205*; οἱ ἐμοί *X.Cyr.3.2.28*, etc.; *ὁ ἐμὸς Ἡράκλειτος my dear* Heraclitus, *Arr.Epict.2.2.17*.

Thank you! Come visit or try the demo now!

Powered by PhiloLOGIC ARTFL/DLOC/UCHICAGO