

Coptic Scriptorium – Guidelines Overview / Cheat Sheet

Segmentation

We use Layton’s segmentation: each stressed unit is spelled together, with text split into stress-bearing bound groups (`_`), norm units (`|`), and morphemes (`-`). Bound groups are units which are uninterruptable (e.g. by `Δε`) and are the maximum domain for phonotactic changes: `ϩμ|π|η` is one bound group, otherwise `η` → `μ` before `π` would be word-external assimilation (‘sandhi’).

- `α|q|cωτμ_Δε_ησ|π|pωμε_δε|oγντα|ι_τα|χρεια` (`δε`, `ησ` are spelled together!)
- `μν|τει|μντ-ατ-cωτμ` (hyphens are used to separate constituent morphemes)
- `†|p-ροτε_αν` (NB we can insert particles before `αν`; `p-ροτε` is a compound verb)

Coptic pausal marks (´) also offer supporting evidence for stress-based bound groups – where they appear, they generally correspond to the bound group splits assumed here:

- `ερε|πεγ|ρογδ_ρ̄-μν̄τρε´_δε|με|η|αωκ̄μ_ξ̄ν|ciooyne´`

Compounds

Compound nouns are segmented into morphs (hyphenated) and identified by potentially having a single article at most. Compound verbs are identified by having no determiner (article, possessive or numeral) for the object:

- `π|μαι-νογτε` (`μαι-νογτε` is a single noun, since only one article is possible)
- `p-μεεγε` (no article on object → compound)
- `p|π|μεεγε` (article on object → separate norm units)
- `ε|τρε|γ|ροτπ|cναγ` (number counts as a determiner → separate norm units)
- `α|q|αξε|ρατ|q` (possessive counts as a determiner → separate norm units)

Handling theta/phi

Fused theta/phi is followed by a separator during transcription to indicate the correct number of segments. Later in spreadsheet mode, the norm and norm_group layers split the hori off:

- Orig/transcription: `η|θ|ε` (norms: `η+τ+ξε`)

More examples

- `oγ|pωμε_πε` (cf. `oγ|pωμε_γαρ_πε`)
- `α|ι|cετπ|τε|cριμε` (for prenominal form, BUT: `α|ι|cωτπ_τε|cριμε`)
- `π|ετ|ηανoy|q` (normal article, relative converter, etc.)
- `π|π-ετ-ηανoy-q` (first article is normal, rest is a noun with morphological structure)

Auxiliaries and converters (tags in A, C*, FUT)*

| | | | | | |
|---------|-----------------------|------------|----------|----------------------------|-------------|
| APST | Aux., past | ⲁ | ACOND | Aux., conditional | ⲉⲣⲟⲩⲁⲛ |
| ANEGPST | Aux., negated past | ⲛⲡ(ⲉ) | ALIM | Aux., limitative ('until') | ⲟⲩⲁⲛⲧ(ⲉ) |
| ANY | Aux., 'not yet' | ⲛⲡⲁⲧ(ⲉ) | ACONJ | Aux., conjunctive | ⲛ̄(ⲧⲉ) |
| AAOR | Aux., aorist | ⲟⲩⲁ, ⲟⲩⲁⲣⲉ | AFUTCONJ | Aux., future conjunctive | ⲧⲁⲣ(ⲉ) |
| ANEGAOR | Aux., negated aorist | ⲛⲉ(ⲣⲉ) | ACAUS | Aux., causative | ⲧⲣⲉ |
| AOPT | Aux., optative | ⲉ[ϣ]ⲉ, ⲉⲣⲉ | CCIRC | Conv., circumstantial | ⲉ(ⲣⲉ) |
| ANEGOPT | Aux., neg. optative | ⲛ̄ⲛⲉ | CFOC | Conv., focalizing | ⲉ(ⲣⲉ)/(ⲉ)ⲛⲧ |
| AJUS | Aux., jussive | ⲛⲁⲣ(ⲉ) | CREL | Conv., relative | ⲉⲧ(ⲧ)/ⲉⲛⲧ |
| ANEGJUS | Aux., negated jussive | ⲛ̄ⲡⲣ̄ⲧⲣⲉ | CPRET | Conv., preterite | ⲛⲉ(ⲣⲉ) |
| APREC | Aux., precursive | ⲛ̄ⲧⲉⲣ(ⲉ) | FUT | Future marker | ⲛⲁ |

Pronouns

Tags distinguish personal subject (PPERS), object (PPERO) and independent pronouns (PPERI), as well as possessives (PPOS):

- †/PPERS ⲥⲟⲟϣⲛ/V
- ⲛⲧⲟⲕ/PPERI
- ⲁ/APST †/PPERS ⲥⲟⲧⲡ/V ⲥ/PPERO
- ⲡⲁ/PPOS ⲛⲓ/N

Demonstratives are tagged PDEM, and interrogatives are PINT:

- ⲛⲧⲕ/PPERI ⲛⲓⲙ/PINT
- ⲡⲉⲓ/PDEM ⲛⲓ/N

Other function words

| Tag | Name | Examples |
|---------|------------------------|-------------------------------|
| ART | Article | ⲡ(ⲉ), ⲧ(ⲉ), ⲛ(ⲉ), ⲓⲉⲛ, ⲕⲉ |
| CONJ | Conjunction | ⲁϣⲟ, ⲛ, ⲛⲛ, ⲕⲁⲓ, ⲉⲓⲧⲉ, ... |
| COP | Copula | ⲡⲉ/ⲧⲉ/ⲛⲉ |
| EXIST | Existential/possessive | ⲟϣⲛ/ⲙⲛ |
| FM | Foreign material | ⲡⲁⲣⲁ ⲧⲟϣⲧⲟ |
| IMOD | Inflected modifier | ⲧⲛⲣ[ϣ], ⲓⲟⲩⲟ[ⲧ], ... |
| NEG | Negation | ⲛ, ⲁⲛ, ⲧⲙ[ⲥⲟⲧⲙ] |
| NUM | Numeral | ⲟϣⲁ, ⲥⲛⲁϣ, ... |
| PREP | Preposition | ⲉⲧⲃⲉ, ⲓⲛ̄, ⲛ, ⲛ̄ⲙⲟ[ϣ], ... |
| PTC | Particle | ⲁⲉ, ⲛ̄ⲃⲓ, ⲁⲉ, ... |
| PUNCT | Punctuation | ., ' ... |
| UNKNOWN | Unknown morph, lacuna | ⲃ_ _ _ , _ _ _ⲟⲥ, _ _ _ , ... |

Portmanteau tags

Unsegmentable, fused forms, receive portmanteau tags, separated by underscore:

- ρω IMOD_PPERO (=ρωω+ανοκ)
- ερο PREP_PPERO (=ε + ντο, 2nd person singular feminine)
- λ/APST κ/PPRERS ντ/V_PPERO (“you have brought me”)

Lemmatization

The guiding principle is to lemmatize to the most independent form possible, while ignoring number, but not gender or person (see [details](#)). Thus pronouns are lemmatized to the independent form:

| Person | Lemma | Pronoun forms |
|---------------|-------|---------------------------|
| 1st sg. | ανοκ | ανοκ, ανη, †, ι, ντ, τ, λ |
| 2nd sg. masc. | ντοκ | ντοκ, ντκ, κ, γ, τκ |
| 2nd sg. fem. | ντο | ντο, ντε, τε, τρ, ρ, ε |
| 3rd sg. masc. | ντοϥ | ντοϥ, ϥ |
| 3rd sg. fem. | ντοϥ | ντοϥ, ϥ |
| 1st pl. | ανον | ανον, αν, η, τη, αν |
| 2nd pl. | ντωτη | ντωτη, ντετη, τη, τητη |
| 3rd pl. | ντοου | ντοου, υ, ου, σε, ου |

Nouns are lemmatized to the independent form, if it exists, otherwise to the prenominal, or if it is not attested, to the presuffixed. Plurals are lemmatized to singular, but feminine forms receive their own lemma, and the same applies to Greek neuters:

- ανη → αν
- ανη → ανη, ανηε → ανηε
- τωτ[ϥ] → τωτ (has independent form)
- ρηε → ρηε (prenominal form exists)
- ανηε → ανηε (only presuffixed form)
- ανηε → ανηε, ανηεον → ανηεον

Verbs are lemmatized to independent forms and verboids to the prenominal form:

- ανη, ανη, ανη → ανη
- ανη, ανηε → ανηε

Prepositions, converters and auxiliaries to prenominal forms:

- ερο[ϥ] → ε, ανη[ϥ] → ανη
- ανη, ανηε → ανηε
- ανη, ανηε, ανηεον → ανηεον
- ανη[ϥ], ανηε → ανηε
- Note past relative: ανη[αν] → ανηε
- But past focalizer: (ε)ανη[αν] → ανηε

Portmanteau tokens receive portmanteau lemmas (word/pos/lemma):

- ερο/PREP_PPERO/ανη_ντο
- ρω/IMOD_PPERO/ρωω_ανοκ

Also see online guidelines on [diplomatic transcription](#), [entity tagging](#), and [syntactic analysis](#)