FoLiA: Format for Linguistic Annotation

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Current state of affairs

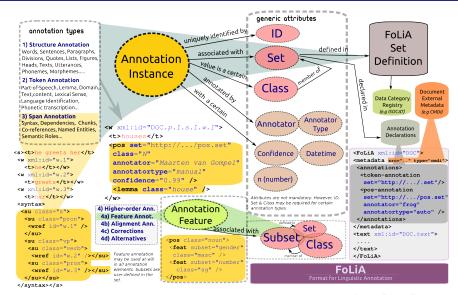
Intended Applications

- as a corpus storage format
- as a language resource exchange format

FoLiA Characteristics

- Uniform setup Consistent and uniform paradigm unifying various kinds of annotation. Not committed to any label set.
- Extensible & Flexible Easy to extend
- Expressive Verbose expression of annotations, their annotators, timestamps, etc... Moreover, support for alternative annotations.
- Formalised Validation on shallow (structural) or deep level. The latter validates the label set and allows for links with for data category registries (e.g. ISOcat).
- Practical Bottom-up development alongside libraries, various applications, different projects.





- Standard XML facilities: XSLT, XPath
- Python library: pynlpl.formats.folia
- C++ library: libfolia (Ko van der Sloot)

FoliaTools

Installation: \$ easy_install folia

- Converters: folia2dcoi, dcoi2folia, folia2html, folia2columns, alpino2folia
- Validator: foliavalidator
- Simple search tool: foliaquery
- Other: foliamerge, foliafreglist



Applications using FoLiA

- Frog tagger/lemmatisation/parser suite: FoLiA input & output
- ucto tokeniser: FoLiA input and output
- Valkuil.net Dutch spelling checker
- Fowlt.net English spelling checker
- Ticcl Spelling normalisation

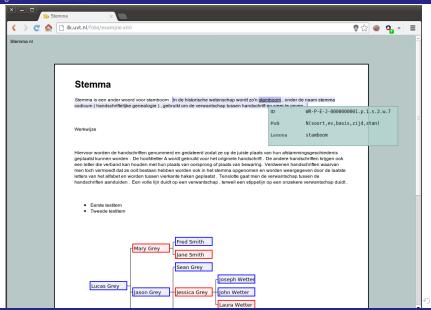
Corpora delivered in FoLiA

 SoNaR (STEVIN), DutchSemCor (NWO), VU-DNC (CLARIN), Basilex (NWO)



```
from pynlpl.formats import folia
#Load FoLiA document
doc = folia.Document(file='/path/to/folia_doc.xml')
#grab a specific sentence from the index
sentence = doc['folia_doc.s.1']
#print words in sentence along with PoS and lemma
for word in sentence.words():
    print word.text() + ", " + word.pos() + ", " +
       word . lemma ()
#add PoS Annotation to a specific word
word = doc['folia_doc.s.1.w.5']
word.append(folia.PosAnnotation, cls="N",
  set="http://some/url/cgn.set")
doc.save() #Save edited document
```

Working with FoLiA: visualisation



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Recent developments

- Co-reference resolution
- Semantic roles
- Improvements in morphological annotation

Work in progress for the future

- Speech annotation, phonemes
- FoLiA Set Definitions and deep validation



New website: http://proycon.github.com/folia Later today: FoLiA demo session including Frog, ucto, Python library.

Questions?

