**Participants:**

Bettina

John

Koustava

Giulia

Max

Maria Pia  
Julia

Stefania

**Word generation with the Morphology Module**

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A Inflectional Data

What resources should be generated? Output data

1. ontolex:Form instances with the following statements:

ontolex:Word ontolex:otherForm ontolex:Form1-n .

ontolex:Form morph:generatedBy morph:Rule .

ontolex:Form morph:consistsOf morph:Morph1 , morph:Morph2 .

morph:Morph1 morph:meaning ontolex:LexicalSense ;

morph:generatedBy morph:Rule .

morph:Morph2 morph:grammaticalMeaning lexinfo:LinguisticCategory ;

morph:morphValue morph:inflectional ;

morph:generatedBy morph:Rule .

morph:Morph resources will be created all uniquely!

One morph:Rule creates one morph:Morph and one ontolex:Form.

What data is required to generate these? Input data

1. Information about the main input ontolex:Form from which further ontolex:Form resources shall be created by using the Morphology Module:
   1. ontolex:Form morph:inflects morph:SubParadigm .
   2. (optional) morph:SubParadigm morph:paradigm morph:Paradigm .
2. Description of data to generate the triples for resulting ontolex:Form instances:
   1. morph:Rule morph:subParadigm morph:SubParadigm .
   2. morph:Rule morph:inflectsFor unrestricted ;

morph:prototype unrestricted ;

morph:replacement string literal .

1. Non RDF-data to describe morphological elements and their exact replacements within the generation process.
   1. Regular expressions = minimal requirement
   2. Finite state automata data with already created morphs
2. RDF data described with the Morphology Module, e.g. morph:Morph instances that are reused for the replacements within the generation process (they won’t get the morph:generatedBy morph:Rule - statements!).

Which morphological replacement processes can be applied?

1. Agglutinative affixation including prefixes, infixes, suffixes, circumfixes
2. Application to multiword ontolex:Forms without further specification of the single words (e.g. in “has been crafted” the components “has” and “been” are not linked to their respective ontolex:Form and ontolex:Word resources)
3. Creation of additional morphemic elements like pronouns, clitics for newly created ontolex:Form resources
4. Suppletions with full string replacement
5. What else? Limitations? Ordering explicitly stated?

B Derivational Data

What resources should be generated? Output data

1. ontolex:LexicalEntry instances with the following statements:
   1. ontolex:LexicalEntry1 decomp:constituent decomp:Component .
   2. ontolex:LexicalEntry decomp:subterm morph:Morph1 .
   3. morph:Morph1 ontolex:LexicalSense externalVocab:DerivMeaning
   4. ontolex:LexicalEntry1 morph:derivationalRel ontolex:LexicalEntry2 .
   5. morph:derivationalRelation vartrans:source ontolex:LexicalEntry3 ;

vartrans:target ontolex:LexicalEntry1 .

What data is required to generate these? Input data

1. Information about the ontolex:LexicalEntry for which ontolex:Lexical resources shall be created by using the Morphology Module: