

Quick Start to Graphical Functional Morphology

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This document gives a short tutorial to Graphical Functional Morphology¹ (GFM). The running example is the definition of a Latin noun paradigm.

1. The first step is to **define the type system**, i.e. the parameters of Latin nouns. Latin nouns is inflected in number and case, and has a gender.
 - Click on the **Types** tab.
 - Click **Create** and select **new inflectional type**.
 - Give *Num* in **Type name** field.
 - Give *Sg* in **Parameter name**, click **add parameter**. Repeat for *Sg*.
 - Click **save inflectional type**.
 - Create and save a new inflectional type, with type name *Case* and parameter names *Nom*, *Voc*, *Acc*, *Gen*, *Dat* and *Abl*.
 - Click **Create** and select **new inherent type**.
 - Create and save a new inherent type, with type name *Gender* and parameter names *Masc*, *Fem*, and *Neutr*.
 - Click **Create** and select **new dictionary type**.
 - Give type name *Noun*.
 - Select **Gender** (click twice on **Gender**).
 - Give *NounForm* as **Parameter name**. Click on **Num**, select **Num**. Click again on **Num** and select **Case**. Click **save dictionary type**.
 - And we are done with the type system.
2. The second step is to **define a paradigm**, i.e. an inflection pattern.
 - Click the **Paradigms** tab.
 - Give *nn_1_rosa* as **paradigm name**. Click **continue**.
 - Select *Fem* at **Gender**.

¹<http://www.cs.chalmers.se/~markus/GFM>

- Give *ros+”a”* in **lemmas** (this is the input word form used in the dictionary). Click **copy stems** to copy the stem *ros* to all the word forms in the inflection table.
 - Next step is to define the inflection table. There are 12 cases in the table. Give the following word forms in the consecutive input fields: *ros+”a”*, *ros+”a”*, *ros+”am”*, *ros+”ae”*, *ros+”ae”*, *ros+”a”*, *ros+”ae”*, *ros+”ae”*, *ros+”as”*, *ros+”arum”*, *ros+”is”*, and *ros+”is”*.
 - Click **save paradigm**.
 - A new paradigm has now been added.
3. The next step is to add some words in the dictionary.
 - Click **Dictionary** tab.
 - Give *puella*, click **add entry**. Repeat for *barba*, *rosa*, and *causa*.
 - To view the inflection tables, press the **view table** buttons.
 4. To generate a full form lexicon, select **Generator** tab, and click **generate fullform**. The lexicon contains 48 word forms.
 5. To save your lexical resource, click **Load_Save** tab, and select **Dump lexical resource in window**. Select all text and copy it.
 6. To load your lexical resource, paste your previously copied text into the text area, and click **Import lexical resource from window**.