Morphology

Einführung in die Computerlinguistik – Übung 11.12.2015

Write

1. Open console (Use MobaXterm on Windows)
2. Only if you are on your private computer
   ```
   ssh username@remote.cip.ifi.lmu.de
   ```
3. Login to my machine
   ```
   ssh tbd
   ```
4. Enable chat
   ```
   mesg y
   ```
5. Send answers or questions
   ```
   echo "bla bla" | write kannk
   ```

Morphology - SMOR

SMOR is a finite-state machine for morphological analysis and generation of words.

1. Download "SMOR" from the course page.

2. Go to the folder and unpack the archive ("tar xfvr SMOR-linux.tar.gz").
    ```
    tar xfvz SMOR-linux.tar.gz
    ```


3. Have a look at the tag description at http://www.cis.uni-muenchen.de/~schmid/tools/SMOR/dspin/ch01s03.html#id558692

Morphology – SMOR

4. Look at the README file in order to answer the following questions:
    1. How can you start SMOR?
    2. How can you analyze a word?
    3. How to switch between modes to analyze and to generate words?
    4. How to generate words?

5. Go to the German Wikipedia and analyze the first 10 words of a random article. Which information does SMOR give about...
    1. ...nouns?
    2. ...verbs?
    3. ...adjectives/adverbs?
    4. ...prepositions?
    5. ...conjunctions?

Morphology – Analysis of Words

6. Analyze the word "schöner" and explain all possible analysis.

7. Find a word SMOR does not know.

8. Competition: Find a word that is not a compound with as many analysis as possible!

9. Competition 2: Find a compound with as many analysis as possible!

Morphology – Generation of Words

INFO: How to generate word forms?

- change to generation mode

- enter the basic form of a word + the tags you want

- the basic form is the form you get when analyzing

- you can find all tags in the description file (cheat: analyze a word that has the tags you want and copy them ;))

Morphology – Generation of Words

10. Analyze the following words and generate their plural form:
    - Buch
    - Tisches
    - Bauer
    - Mädchens

11. Analyze the following words and generate the Singular form (same person):
    - esst
    - lesen

Morphology – Generation of Words

12. Generate the 4 singular forms of "Glaube".

13. Generate the 4 plural forms of "Haupt".

14. Generate all 3rd person singular forms of "flanieren" that consist of one single word.

15. Try to generate a word that does not exist in German, for example words without a plural form. What does SMOR do?

Morphology – Generation of Words

Change of part of speech:

15. Generate a noun from a verb.

16. Generate an adjective from a verb.

17. Generate a noun from an adjective.