

Spring School Bolzano 2021, „Morfologia“

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Investigating morphological processing: Experimental and computational approaches

Preparation and setup

1. DISSECT toolkit

Linux setup

- Download DISSECT in its Python3 version:

<https://github.com/composes-toolkit/dissect/tree/python3>

(and maybe rename the folder from "dissect-python3" to "dissect")

- Install dependencies:

```
pip install numpy
pip install scipy
pip install six
pip install wheel
pip install sparsesvd
```

- Modify PYTHONPATH to the DISSECT source files

```
export PYTHONPATH="<toolkit directory>/src/":$PYTHONPATH
```

e.g.

```
export PYTHONPATH="/home/toolkitauthor/dissect/src/":$PYTHONPATH
```

Windows setup (maybe not the only option, but it does work like this)

- Install a Python3 version

(one possibility: Open the command line, type python, select what the Microsoft Store offers you)

- Download DISSECT in its Python3 version: <https://github.com/composes-toolkit/dissect/tree/python3>

(and maybe rename the folder from "dissect-python3" to "dissect")

- Download Microsoft Visual C++ 14.0:

Go to <https://visualstudio.microsoft.com/downloads/> -> Tools for Visual Studio 2019 (at the bottom of the page) -> Build Tools for Visual Studio 2019 -> Download

Download .exe and install, then install the C++ build tools (when the installer asks about the components to install)

This unfortunately takes up a few GB of disk space

- Open windows command line (cmd) and install dependencies:

```
pip install numpy
pip install scipy
pip install six
pip install wheel
pip install sparsesvd
```

- set PYTHONPATH (modify to the directory where dissect\src actually is), for example:

```
set PYTHONPATH=%PYTHONPATH%;C:\Users\Administrator\Documents\dissect\src
```

- Adjust build_core_space.py function in /src/pipelines:

in line 35 change

```
from . import pipeline_utils as utils
```

to

```
import pipeline_utils as utils
```

2. R and LSAfun

- Install R from <https://www.r-project.org/>
- If you want to, you can install RStudio as a user interface (<https://www.rstudio.com/products/rstudio/download/>)
- In R, install the LSAfun package by typing and running:

```
install.packages("LSAfun")
```

3. Download the materials for the course

All materials for the course are available at

<https://www.lingexp.uni-tuebingen.de/z2/Morphology/>