PHILOSOPHY AND HISTORY OF SCIENCE WITH COMPUTATIONAL MEANS

PROF. DR. GERD GRAßHOFF

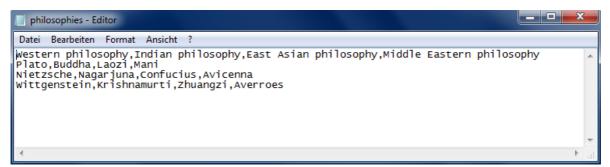
Reading file formats

To read a text file, copy the following in a cell and replace the name of your file, which you must save there where your notebooks are saved. You can replace "content" with your own name, but must repeat this name in another cell, then run the cells.

```
In []: import tika
    tika.initVM()
    from tika import parser
    parsed = parser.from_file('yourfile.pdf')
    print(parsed["metadata"])
    content=parsed["content"]
In []: content
```

CSV-File

You have to get or make a CSV-File. Open up any text editor and enter your values all separated by commas. Save it as a CSV-File in the directory where your notebooks are saved.



Use the function and run the cell:

```
name_DataFrame = pd.read_csv('nameOfYourFile.csv')
name_DataFrame

In [3]: philosophers = pd.read_csv('philosophies.csv')

In [4]: philosophers

Out[4]:

Western Philosophy Indian Philosophy East Asian philosophy Middle Eastern philosophy

0 Plato Buddha Laozi Mani
1 Nietzsche Nagarjuna Confucius Avicenna
2 Wittgenstein Krishnamurti Zhuangzi Averroes
```

JSON

• Here is an example:

• Do not forget to import the json module:

```
import json
```

• With the following you can load json data:

 1
 Aesthetics
 Aestheticians
 Immanuel Kant
 Continental

 2
 Ethics
 Ethicists
 Aristotle
 Peripatetic

 3
 Logic
 Logicians
 William of Ockham
 Scholasticism

```
choose_name = json.loads(name_of_your_json_obj)
```

• With the following you can open JSON data after loading with a DataFrame:

```
Choose_another_name = DataFrame(choose_name)

In [9]: dframe = DataFrame(data)

In [10]: dframe

Out[10]: Branch Philosophers Example School

0 Metaphysics Metaphysicians David Lewis Analytic
```

• To show the DataFrame, write again your chosen name of the variable and run the cell.