## Data Analysis using Python

Sustainable Communication Networks University of Bremen



## Course Objective and Requirements

- Hands-on driven course
- Material online available (GitHub)
- Go through examples
- Questions? Ask!

#### You should now have

- A computer with you
- Internet access
- Python installed
- (A text editor installed)



# Material: Online

Material on GitHub:

github.com/ComNets-Bremen/Python-Class

## Hello World in Python

```
#!/usr/bin/env python

"""

Hello World

Author, 2017, myaddress@uni-bremen.de

"""

print "Hello World" # Basic "Hello World" example
```

Listing 1: "Hello World" in Python



## Indention / Blocks in Python

```
#!/usr/bin/env python
11 11 11
Indention example
myValue = True
if myValue:
    print "myValue is True"
else:
    print "myValue ist False"
```

Listing 2: Indention in Python



#### Ideas to try out

- Hello world example
- Print a square / triangle
- Enter name and gender to formulate a greeting
- Print prime numbers
- Try out the random number generators
- Create a simple phone book
- Plot a sine / cosine using matplotlib
- Read the data from the files directory and plot statistics
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