**Section 18: Emails with Python**

**28.03.**

**135. Sending Emails with Python**

For sending emails with Python the built-in smtplib can be used

The first step is to connect to the SMTP Server by using the Server Domain Name and a port:

Gmail (will need App Password) -> smtp.gmail.com

Yahoo -> smtp.mail.yahoo.com

Instantiation: smtp\_object = smtplib.SMTP(‘smtp.gmail.com’, 587) (port 465 also can be tried)

The connection is done via: smtp\_object.ehlo() that should return the 250 code + other values

To activate the Transport Layer Security call smtl\_object.starttls()

With getpass library a string can be entered and not shown (like a hidden input)

If using Gmail the password required is a code generated and 2FA is also required

2FA can be activated here: <https://support.google.com/accounts/answer/185833?hl=en/>

To log in use: smtp\_object.login(email, password)

Send an email use: smtp\_object.sendmail(from\_addr, to\_addr, msg) (empty dict if successed)

The message must have the format: “Subject: {entered\_subject} \n {entered\_message}”

The session can be closed with: smtp\_object.quit()

**136. Receiving Emails with Python**

The built-in package imaplib helps to search in the mail inbox (IMAP protocol)

The server must be chosen: m = imaplib.IMAP4\_SSL(‘imap.gmail.com’)

To login: m.login(user, password)

We can search inside inbox, sent, trash etc. categories

Select one with m.select(‘inbox’)

Filtering by date, sender, receiver, mails in cc, bcc, subject, text, seen, answered, and deleted

Filtering example: typ, data = m.search(None, ‘SUBJECT “subject of choice”’) will return ids

Fetch email by id: result, email\_data = m.fetch(data[0], “(RFC822)”)

Decoding the content: raw\_email\_data = email\_data[0][1].decode(‘utf-8’)

The raw\_email\_data can be parsed with built-in email library or by hand

With email library:

email\_message = email.message\_from\_string(raw\_email\_data)

for part in email\_message.walk():

if part.get\_content\_type() == ‘text/plain’:

print(part.get\_payload(decode=True))