

Email for Data Science

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1 Introduction

- Why email?
- Who are you?
- Why is email hard?
- Preview of joy

2 The whole game

In this tutorial, we are going to send an email from a Gmail account. To do so, you will need to [create an App Password](#). Note this is only possible if you've [enabled 2-step verification](#).

Tip

This is just one of many options: it is also possible to send emails in Python from other email providers (Outlook, ProtonMail, etc.), or even from a custom domain. To skip ahead to a discussion of alternative sending methods, see [Authentication](#)

Once you've created your App Password, that is used as your Gmail password for sending with Python.

There are many ways to store the password separate from your email-sending code, so as to not expose any sensitive information. One such approach uses a `.env` file, and the `dotenv` and `os` packages.

Listing 2.1 `.env`

```
GMAIL_APP_PASSWORD=abcd abcd abcd abcd
```

Listing 2.2 `main.py`

```
import os
from dotenv import load_dotenv

load_dotenv()

your_gmail_address = "YourGmail@gmail.com"
gmail_app_password = os.environ["GMAIL_APP_PASSWORD"]
```

Check out the email content we will send.

```
from data_polars import sp500
```

```
sp500.head(10).style
```

date	open	high	low	close	volume	adj_close
2015-12-31	2060.5901	2062.54	2043.62	2043.9399	2655330000.0	2043.9399
2015-12-30	2077.3401	2077.3401	2061.97	2063.3601	2367430000.0	2063.3601
2015-12-29	2060.54	2081.5601	2060.54	2078.3601	2542000000.0	2078.3601
2015-12-28	2057.77	2057.77	2044.2	2056.5	2492510000.0	2056.5
2015-12-24	2063.52	2067.3601	2058.73	2060.99	1411860000.0	2060.99
2015-12-23	2042.2	2064.73	2042.2	2064.29	3484090000.0	2064.29
2015-12-22	2023.15	2042.74	2020.49	2038.97	3520860000.0	2038.97
2015-12-21	2010.27	2022.9	2005.9301	2021.15	3760280000.0	2021.15
2015-12-18	2040.8101	2040.8101	2005.33	2005.55	6683070000.0	2005.55
2015-12-17	2073.76	2076.3701	2041.66	2041.89	4327390000.0	2041.89

And now we send the email!

```
import redmail
```

```
redmail.gmail.username = your_gmail_address
```

```
redmail.gmail.password = gmail_app_password
```

```
redmail.gmail.send(  
    subject="An Example Email",  
    receivers=[username],  
    html=email_html,  
    text=email_plaintext,  
)
```

Part I

Content

3 Embedding images and tables

4 Layout main components

Part II

Configuring

5 Subject and something else

6 Attachments

Part III

Orchestrating

7 Authentication

8 Testing emails