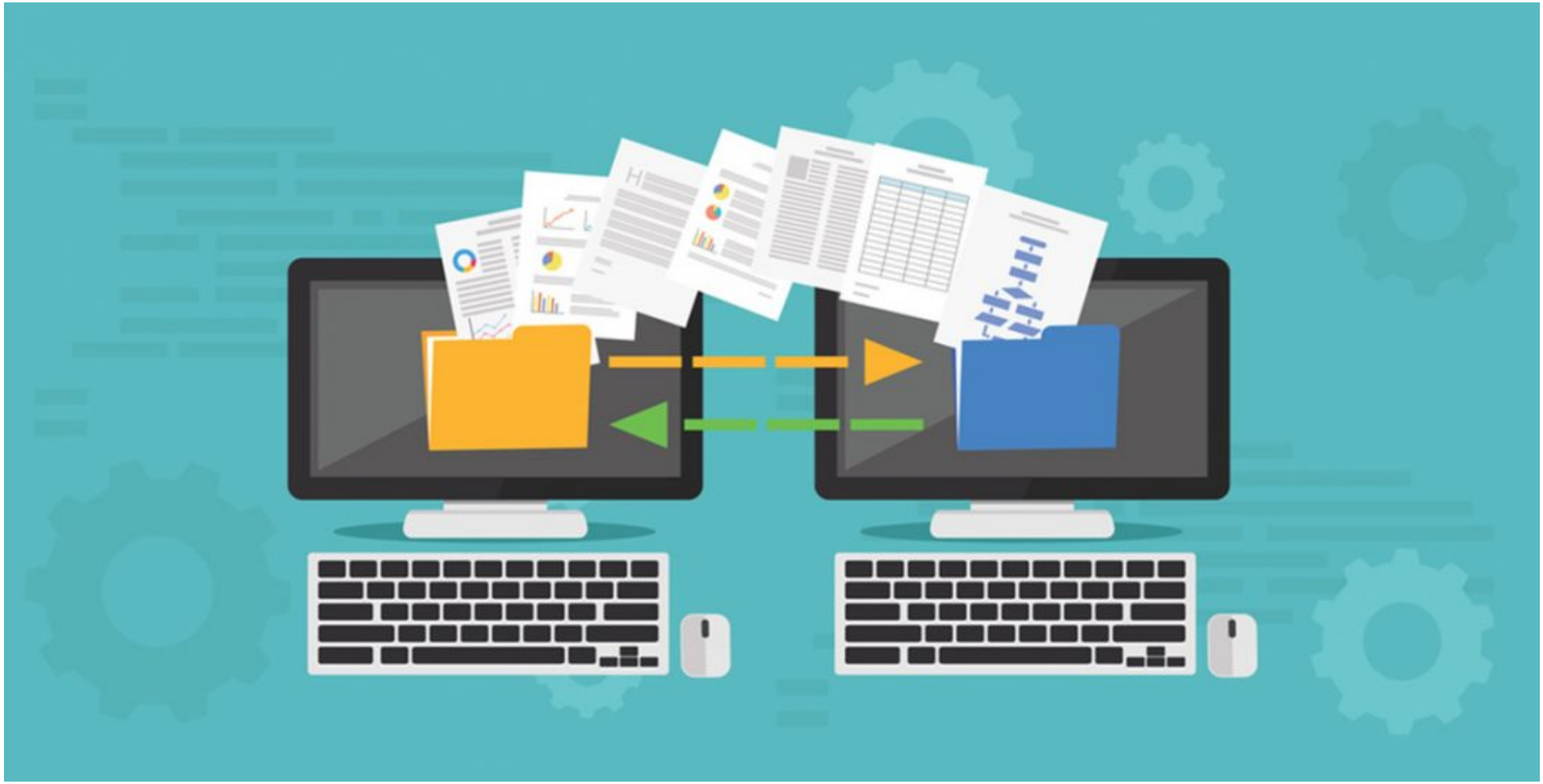
Uploading a file to FTP server using Python (/post/668/uploading-a-file-to-ftp-server-using-python/)

ftp (/tag/ftp/) script (/tag/script/) upload (/tag/upload/) 1 6855



In this article we will see how to connect to, login and upload a file to FTP server using python.

We will require a publicly available FTP server to test our code. You can use below details for same.

```
FTP URL: ftp.dlptest.com
FTP User: dlpuser@dlptest.com
Password: e73jzTRTNqCN9PYAAjjn
```

If above details are not working or are outdated, let us know by commenting below so that we can update the article. Meanwhile you can search other FTP server details publicly available over the Internet.

We will use `ftplib` python module.

```
from ftplib import FTP
```

Define host, username and password.

```
host = "ftp.dlptest.com"
username = "dlpuser@dlptest.com"
password = "e73jzTRTNqCN9PYAAjjn"
```

since these details are publicly availabe, we need not to worry about storing them in env or in config file.

Create a connection.

```
ftp = FTP(host=host)
```

Login to FTP server.

```
login_status = ftp.login(user=username, passwd=password)
print(login_status)
```

Now create a dummy file in your current directory.

```
echo 'Hi Rana' > rana_ftp.txt
```

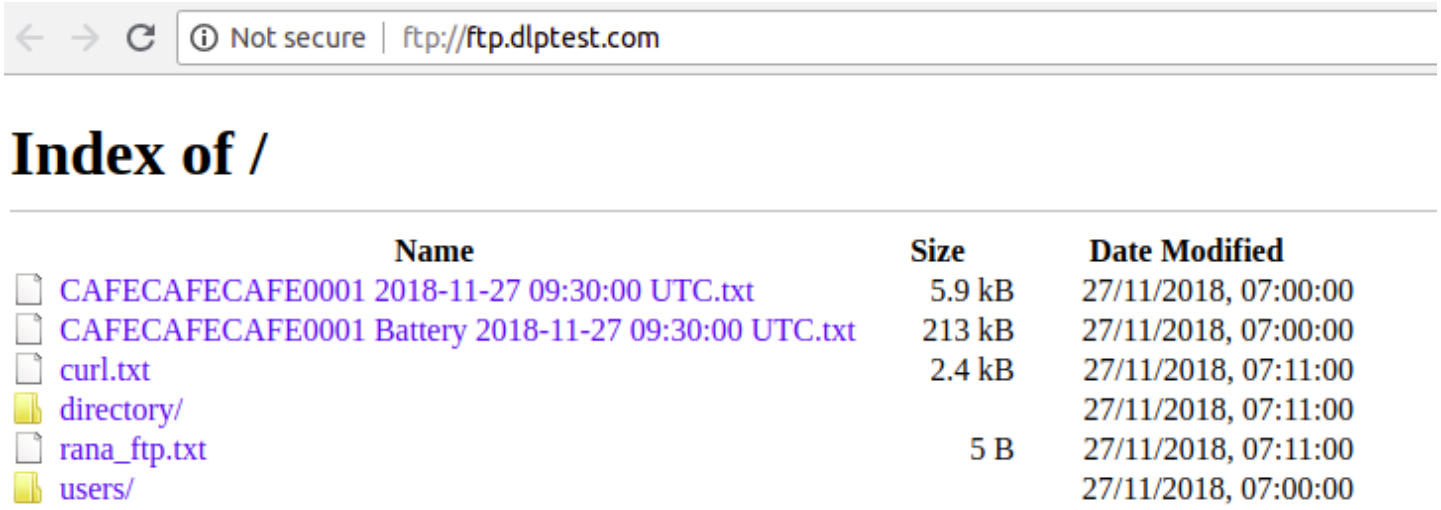
Print the content of current directory on FTP server and upload the txt file.

```
print(ftp.dir())
fp = open("rana_ftp.txt", 'rb')
ftp.storbinary('STOR %s' % os.path.basename("rana_ftp.txt"), fp, 1024)
fp.close()
```

Print the content of current directory on FTP again after uploading file.

```
rana@Brahma: scripts$ python3 ftp.py
drwxr-xr-x    4 colora17   colora17        49152 Nov 27 01:33 .
drwxr-xr-x    4 colora17   colora17        49152 Nov 27 01:33 ..
-rw-r--r--    1 colora17   colora17         6073 Nov 27 01:30 CAFECAFECAFE0001 2018-11-27 09:30:00 UTC.txt
-rw-r--r--    1 colora17   colora17       217871 Nov 27 01:30 CAFECAFECAFE0001 Battery  2018-11-27 09:30:00 UTC.txt
-rw-r--r--    1 colora17   colora17         2468 Nov 27 01:40 curl.txt
drwxr-xr-x    2 colora17   colora17         4096 Nov 27 01:40 directory
drwxr-xr-x    3 colora17   colora17         4096 Nov 27 01:30 users
None
drwxr-xr-x    4 colora17   colora17        49152 Nov 27 01:41 .
drwxr-xr-x    4 colora17   colora17        49152 Nov 27 01:41 ..
-rw-r--r--    1 colora17   colora17         6073 Nov 27 01:30 CAFECAFECAFE0001 2018-11-27 09:30:00 UTC.txt
-rw-r--r--    1 colora17   colora17       217871 Nov 27 01:30 CAFECAFECAFE0001 Battery  2018-11-27 09:30:00 UTC.txt
-rw-r--r--    1 colora17   colora17         2468 Nov 27 01:40 curl.txt
drwxr-xr-x    2 colora17   colora17         4096 Nov 27 01:40 directory
-rw-r--r--    1 colora17   colora17            5 Nov 27 01:41 rana_ftp.txt
drwxr-xr-x    3 colora17   colora17         4096 Nov 27 01:30 users
None
```

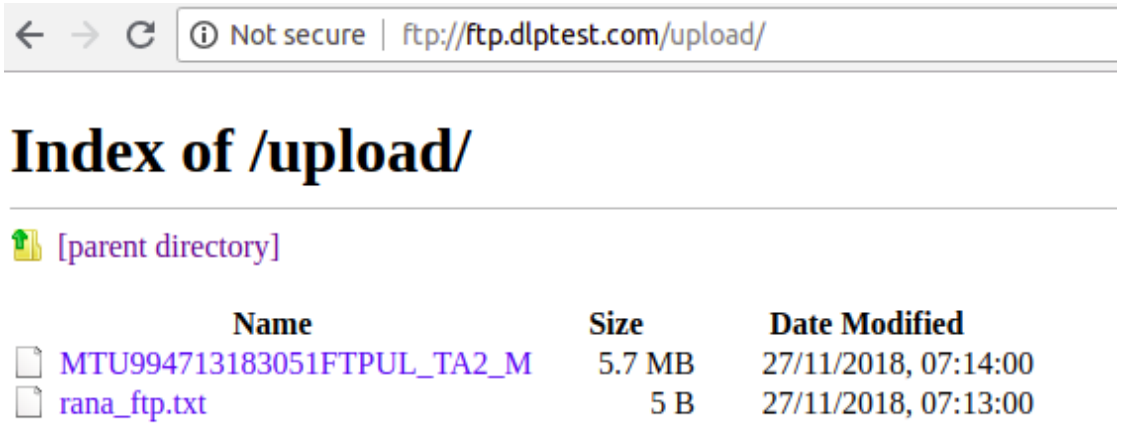
You can verify via browser by visiting the link ftp://ftp.dlptest.com/ (ftp://ftp.dlptest.com/).



If you need to upload the file in some other directory, change to that directory using `ftp.cwd('dirname')`.

Here we have uploaded the file to `upload` directory.

```
rana@Brahma: scripts$ python3 ftp.py
drwxr-xr-x    2 colora17   colora17        4096 Nov 27 01:42 .
drwxr-xr-x    5 colora17   colora17       49152 Nov 27 01:43 ..
-rw-r--r--    1 colora17   colora17     4672486 Nov 27 01:43 MTU994713183051FTPUL_TA2_M
None
drwxr-xr-x    2 colora17   colora17        4096 Nov 27 01:43 .
drwxr-xr-x    5 colora17   colora17       49152 Nov 27 01:43 ..
-rw-r--r--    1 colora17   colora17     4985886 Nov 27 01:43 MTU994713183051FTPUL_TA2_M
-rw-r--r--    1 colora17   colora17           5 Nov 27 01:43 rana_ftp.txt
None
```



Complete code is below.

```
 #
# Sample python program showing FTP connection and
# how to upload any file to a FTP server
#
# Author - https://www.pythoncircle.com
#

from ftplib import FTP
import os

host = "ftp.dlptest.com"
username = "dlpuser@dlptest.com"
password = "e73jzTRTNqCN9PYAAjjn"

# connect to host on default port i.e 21
ftp = FTP(host=host, user=username, passwd=password)
login_status = ftp.login()
print(login_status)

# change directory to upload
ftp.cwd('upload')
# print the content of directory
print(ftp.dir())
fp = open("rana_ftp.txt", 'rb')
# upload file
ftp.storbinary('STOR %s' % os.path.basename("rana_ftp.txt"), fp, 1024)
fp.close()

print(ftp.dir())
```

Reference:

1. https://docs.python.org/3/library/ftplib.html

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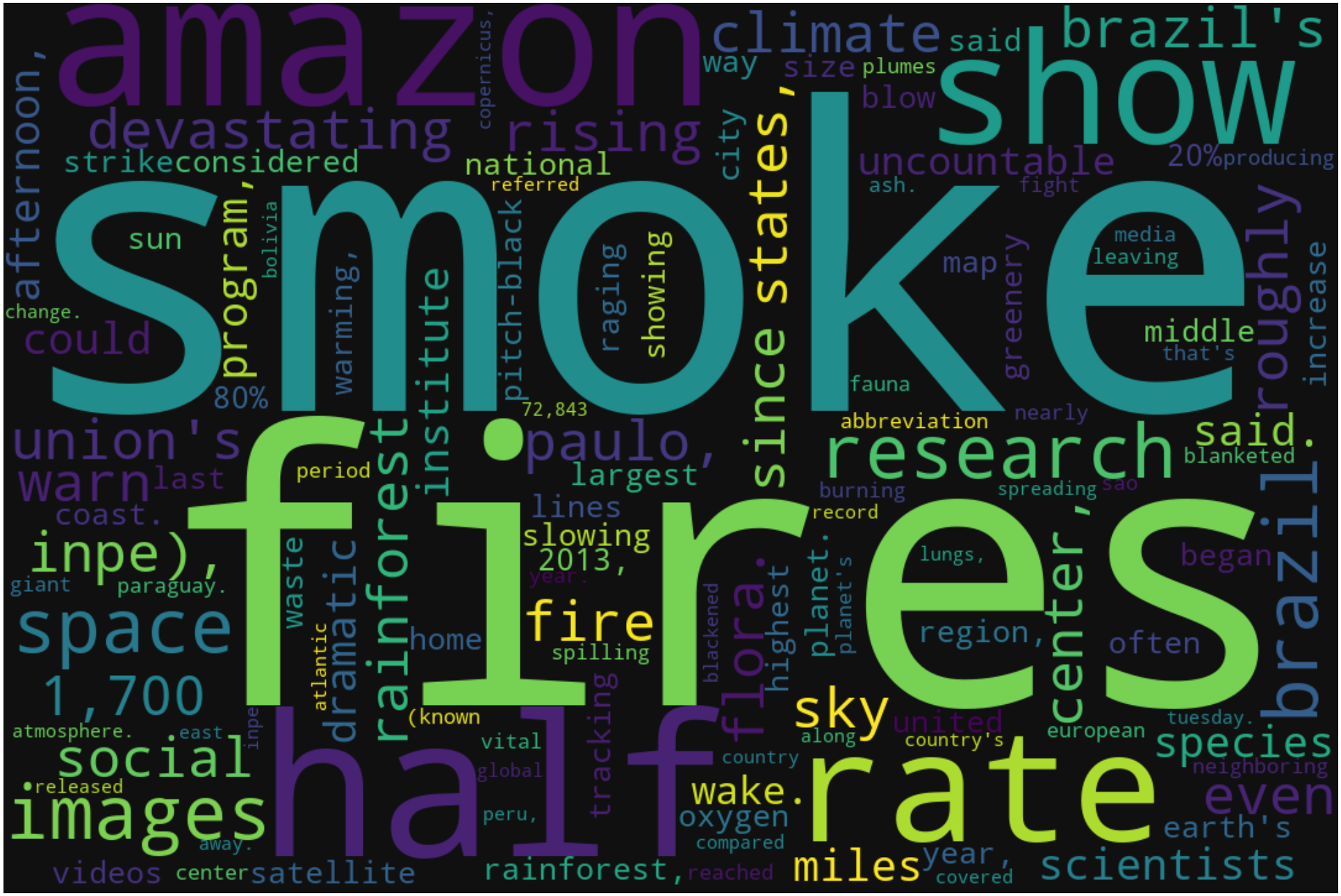

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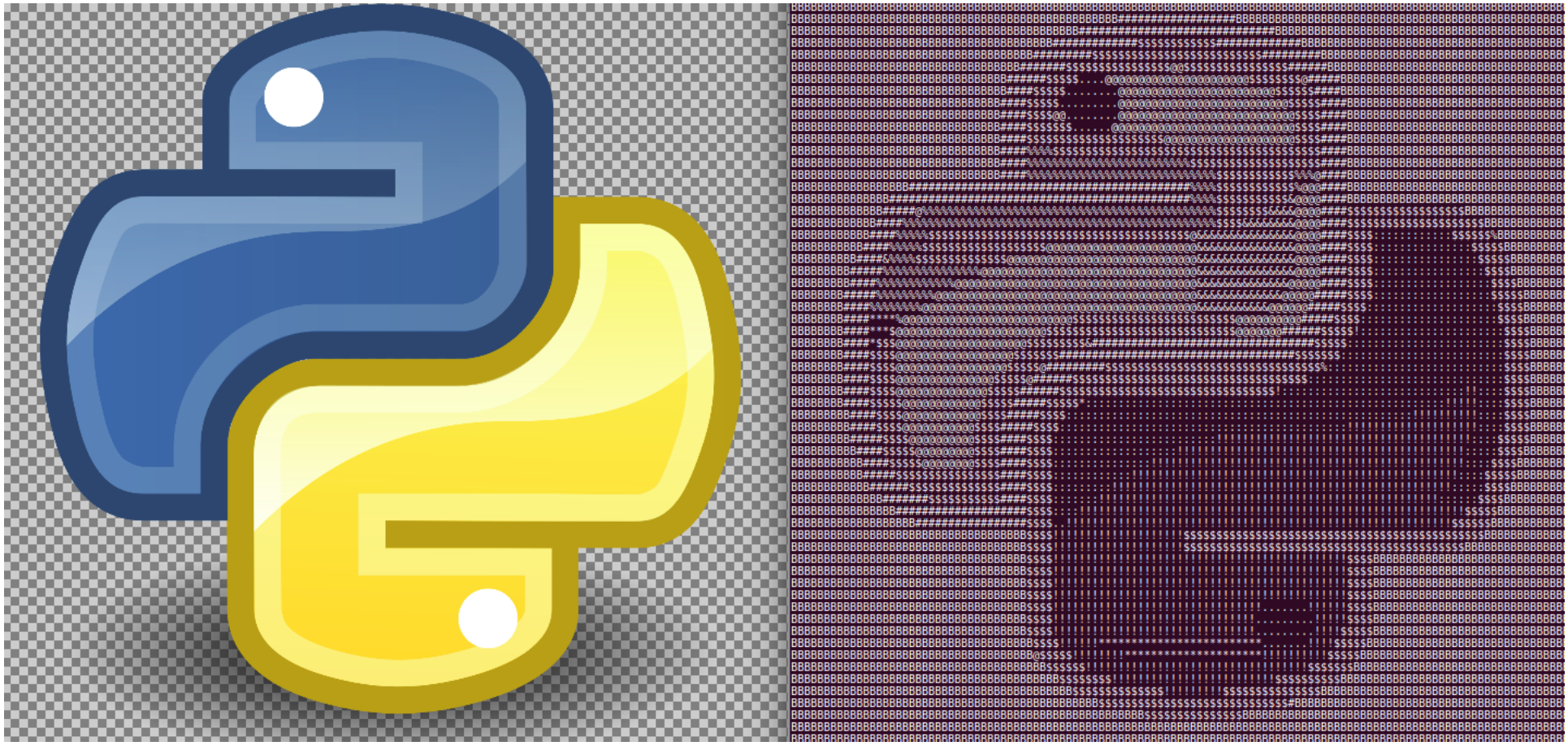

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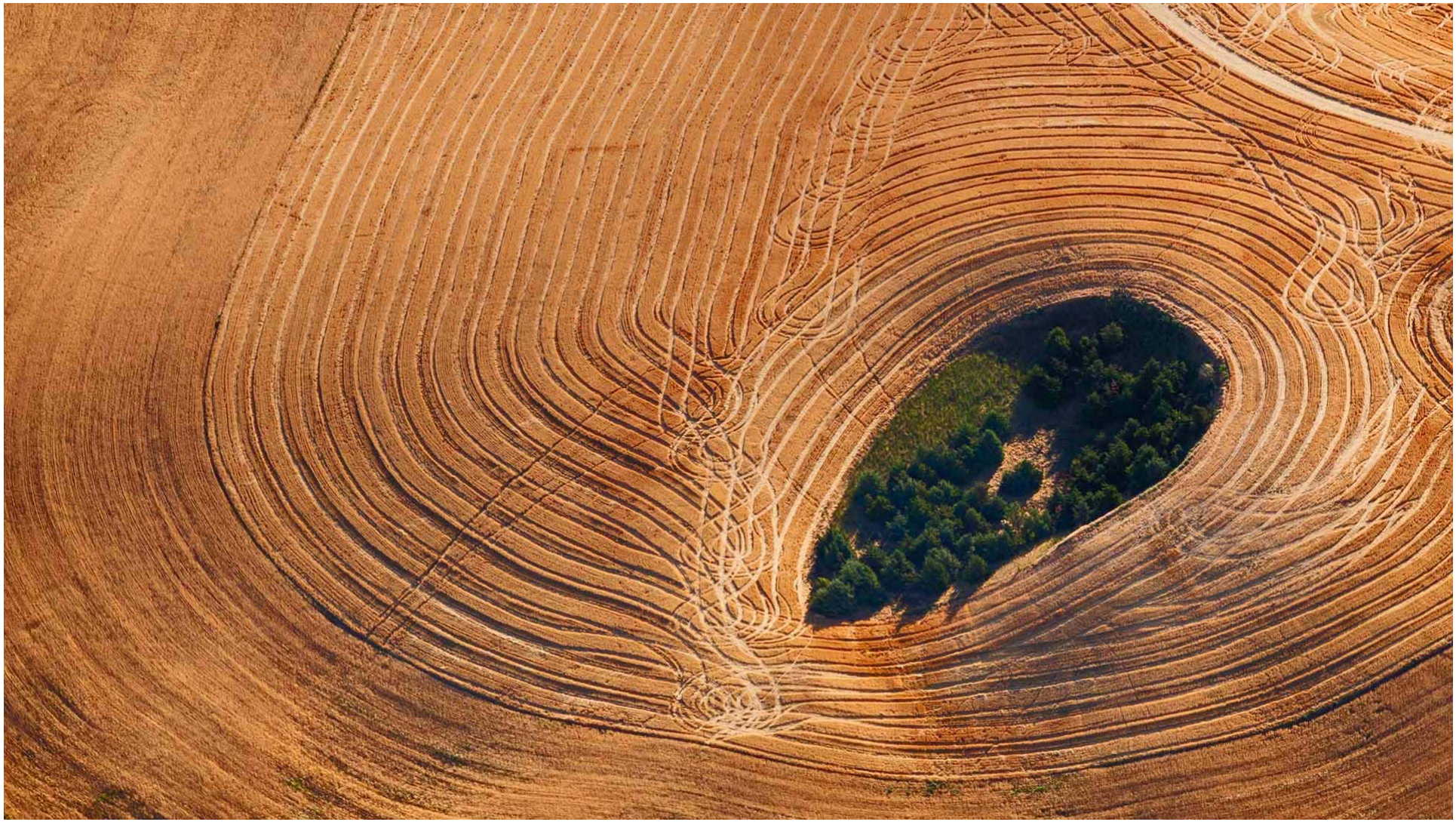

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