

## DNEXT API - Code Example - Download a dataset

The below code can be used to download a dataset from the platform:

```
1 import requests
2 import pandas as pd
3 from io import BytesIO
4 import time
5
6
7 def _get_task_status(task_id, token):
8     my_headers = {
9         'Authorization': 'Bearer ' + token,
10        'Content-Type': 'application/json'
11    }
12
13    success = False
14    wait_time = 2
15
16    while not success and wait_time < 30:
17        time.sleep(wait_time)
18
19        status_res = requests.get(f'https://api.dnext.io/v1.0/tasks/{task_id}', headers=my_headers)
20
21        try:
22            success = status_res.json()['status'] == 'SUCCEEDED'
23        except:
24            wait_time += 1
25            continue
26
27        if not success:
28            wait_time += 1
29
30    if success:
31        return True
32    else:
33        return False
34
35
36 def download_dataset(code, token):
37
38    my_headers = {
39        'Authorization': 'Bearer ' + token,
40        'Content-Type': 'application/json'
41    }
42
43    dl_url = f'https://api.dnext.io/v1.0/data/datasets/{code}/download'
44
45    res = requests.post(dl_url, headers=my_headers)
46
47    task_id = res.json()['task']['id']
48
49    data_ready = _get_task_status(task_id, token)
```

```

51     if data_ready:
52         data_url = res.json()['result']['url']
53         data_resp = requests.get(data_url)
54         df = pd.read_csv(BytesIO(data_resp.content))
55
56     else:
57         df = None
58
59     return df
60
61
62 df = download_dataset(<dataset_code>, <your_token>)

```

You can fetch the dataset code from the url directly



or from the “Code” Column in the list of datasets

Datasets														Operations	Data Catalog	Create a new dataset
	State	Grade	Shared	Shareable	Code	Name	Trigger	Status	Lock	Execution path	Loader	Frequency	Labels		Total record(s): 6161	
-	-	-	-	-	topjian-f1f4b06d-7470-40ff-8a...	Tradeflow - Customs - Brazil All mo...	-	-	-	-	-	monthly				
-	-	-	-	-	topjian-1a0d1727-e20f-11af-b5...	Wheat WORLD ENDITEM w...	-	-	-	-	-	weekly				
-	-	-	-	-	topjian-74ef5103-e1e8-4ca7-af...	Tradeflow - Customs - Europe All ...	-	-	-	-	-	monthly				
-	-	-	-	-	topjian-bbd6359-db54-4efc-9c...	Tradeflow - Customs - India All mo...	-	-	-	-	-	monthly				