

## DNEXT API - Code Example - Download a dataset

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

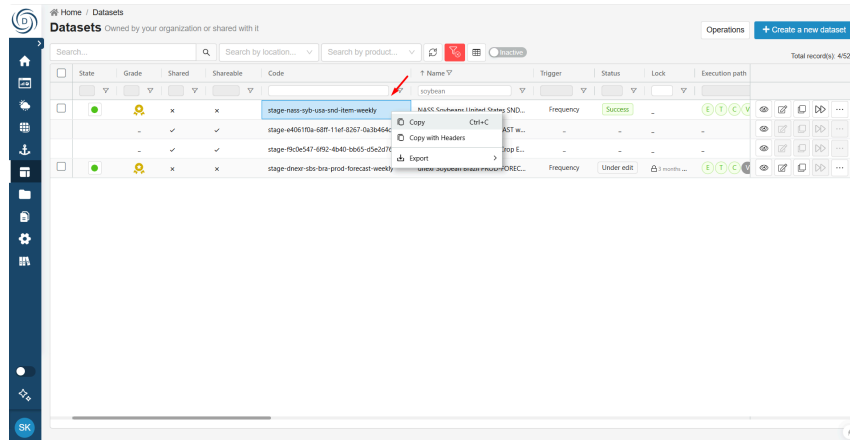
```
1 import requests
2 import pandas as pd
3 from io import BytesIO
4 import time
5
6
7 def _get_task_status(task_id, token):
8     my_headers = {
9         'Authorization': 'Bearer ' + token,
10        'Content-Type': 'application/json'
11    }
12
13    success = False
14    wait_time = 2
15
16    while not success and wait_time < 30:
17        time.sleep(wait_time)
18
19        status_res =
180 requests.get(f'https://api.dnext.io/v1.0/tasks/{task_id}',
181 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 =
44 f'https://api.dnext.io/v1.0/data/datasets/{code}/download'
45
46     res = requests.post(dl_url, headers=my_headers)
47
48     task_id = res.json()['task']['id']
49
50     data_ready = _get_task_status(task_id, token)
51
52     if data_ready:
53         data_url = res.json()['result']['url']
54         data_resp = requests.get(data_url)
55         df = pd.read_csv(BytesIO(data_resp.content))
56
57     else:
58         df = None
```

```

59     return df
60
61
62     df = download_dataset(<dataset_code>, <your_token>)
63

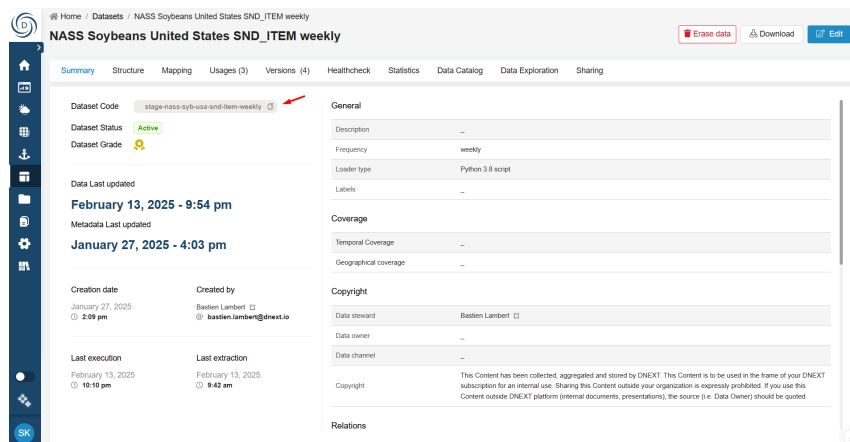
```

Note : you can find the dataset\_code either in the list of datasets in the code column



State	Grade	Shared	Shareable	Code	Trigger	Status	Lock	Execution path	Total records
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	stage-nass-syb-usa-snd-item-weekly	Frequency	Success	<input type="checkbox"/>	AKK Conduits United States SND...	4/500
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	stage-40610fa-68ff-11e4-8267-0a3b464a...	Copy	...	<input type="checkbox"/>	AKK Conduits United States SND...	...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	stage-8f3e547-6952-4b40-b665-d5e3d7c...	Copy with Headers	...	<input type="checkbox"/>	AKK Conduits United States SND...	...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	stage-d9ee8de-b3a-prod-forecast-weekly	Export	Under edit	<input type="checkbox"/>	AKK Conduits United States SND...	...

or in the summary page of the dataset



Summary		Structure	Mapping	Usages (3)	Versions (4)	Healthcheck	Statistics	Data Catalog	Data Exploration	Sharing
<b>Dataset Code</b> stage-nass-syb-usa-snd-item-weekly										
<b>Dataset Status</b> Active										
<b>Dataset Grade</b>										
<b>Data Last updated</b> <b>February 13, 2025 - 9:54 pm</b>										
<b>Metadata Last updated</b> <b>January 27, 2025 - 4:03 pm</b>										
<b>Creation date</b> January 27, 2025 @ 2:09 pm					<b>Created by</b> Bastien Lambert @ bastien.lambert@dnex.io					
<b>Last execution</b> February 13, 2025 @ 10:10 pm					<b>Last extraction</b> February 13, 2025 @ 9:42 am					
<b>General</b>										
Description --										
Frequency weekly										
Loader type Python 3.8 script										
Labels --										
<b>Coverage</b>										
Temporal Coverage --										
Geographical coverage --										
<b>Copyright</b>										
Data steward Bastien Lambert										
Data owner --										
Data channel --										
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<b>Relations</b>										