

DNEXT API - Code Example - Download a dataset

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

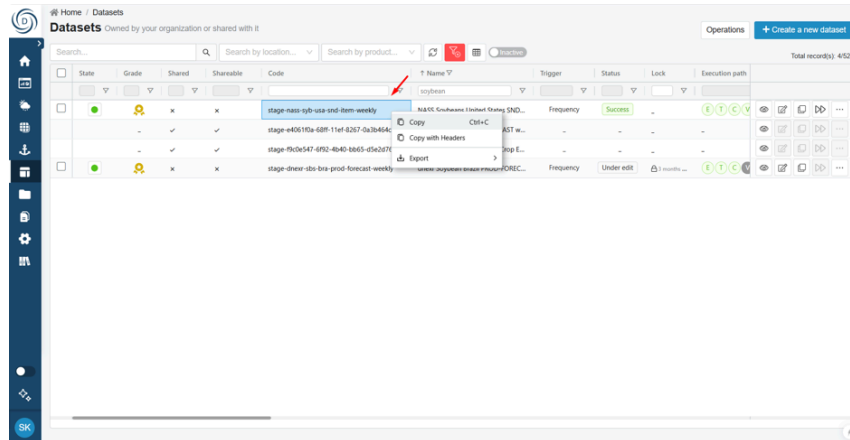
```
1 import requests
2 import pandas as pd
3 from io import BytesIO
4 import time
5
6
7 def _get_task_status(task_id, token):
8     my_headers = {
9         'Authorization': 'Bearer ' + token,
10        'Content-Type': 'application/json'
11    }
12
13    success = False
14    wait_time = 2
15
16   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

```

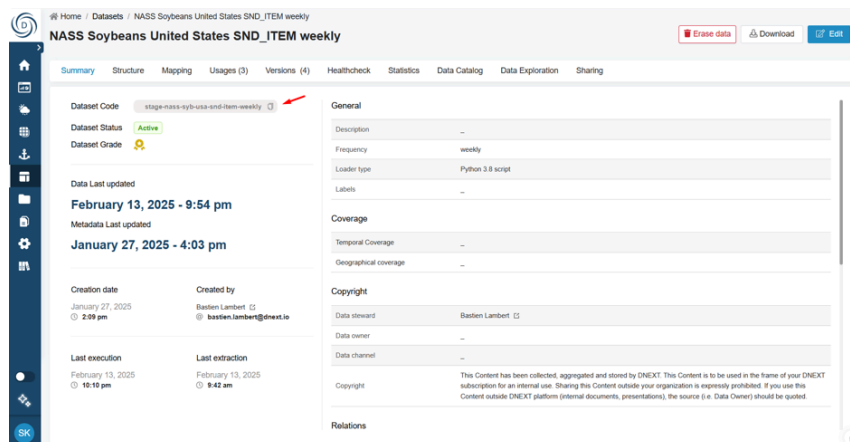
Note : you can find the dataset_code either in the list of datasets in the code column



The screenshot shows a table of datasets. The first row is highlighted, and a red arrow points to the 'code' column value 'stage-nass-soy-usa-snd-item-weekly'.

State	Grade	Shared	Shareable	Code	Trigger	Status	Lock	Execution path
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	stage-nass-soy-usa-snd-item-weekly	Adapted from NASS United States SND...	Frequency	Success	...
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	stage-e40610a-089-11af-8267-0a3b464...	Copy
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	stage-f9c547-d92-4b40-b665-d5c2b7f...	Copy with Headers
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	stage-d9e9-d9e-b9a-prod-forecast-weekly	Export

or in the summary page of the dataset



The screenshot shows the summary page for the dataset 'NASS Soybeans United States SND_ITEM weekly'. The 'Dataset Code' is highlighted with a red arrow.

Summary		Structure	Mapping	Usages (3)	Versions (4)	Healthcheck	Statistics	Data Catalog	Data Exploration	Sharing
<p>Dataset Code stage-nass-soy-usa-snd-item-weekly</p> <p>Dataset Status Active</p> <p>Dataset Grade </p> <p>Data Last updated February 13, 2025 - 9:54 pm</p> <p>Metadata Last updated January 27, 2025 - 4:03 pm</p> <p>Creation date January 27, 2025 2:09 pm</p> <p>Created by Bastien Lambert </p> <p>Last execution February 13, 2025 10:10 pm</p> <p>Last extraction February 13, 2025 9:42 am</p>										
<p>General</p> <p>Description --</p> <p>Frequency weekly</p> <p>Loader type Python 3.8 script</p> <p>Labels --</p> <p>Coverage</p> <p>Temporal Coverage --</p> <p>Geographical coverage --</p> <p>Copyright</p> <p>Data steward Bastien Lambert </p> <p>Data owner --</p> <p>Data channel --</p> <p>Copyright This Content has been collected, aggregated and stored by DNEXT. This Content is to be used in the frame of your DNEXT subscription for an internal use. Sharing this Content outside your organization is expressly prohibited. If you use this Content outside DNEXT platform (internal documents, presentations), the source (i.e. Data Owner) should be quoted.</p> <p>Relations</p>										