# DNEXT API - Code Example - Download a tradeMatrix

Below is a code snippet that can be used to download a tradeflow using the dnext API:
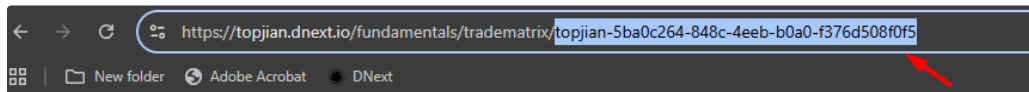
```python
import requests
import pandas as pd
from io import BytesIO
import time
import json


def _get_task_status(task_id, token):
    my_headers = {
        'Authorization': 'Bearer ' + token,
        'Content-Type': 'application/json'
    }

    success = False
    wait_time = 2

    while not success and wait_time < 30:
        time.sleep(wait_time)

        status_res = requests.get(f'https://api.dnext.io/v1.0/tasks/{task_id}',
    headers=my_headers)

        try:
            success = status_res.json()['status'] == 'SUCCEEDED'
        except:
            wait_time += 1
            continue

        if not success:
            wait_time += 1

    if success:
        return True
    else:
        return False


def download_tradeflow(code, token):

    my_headers = {
        'Authorization': 'Bearer ' + token,
        'Content-Type': 'application/json'
    }

    data = {
        'intraflows': {
            'strategy': 'include', # "include" or "exclude" the intraflows
        },
        'forecasts': {
            'strategy': 'include', # "include" or "exclude" the intraflows
```

```
50                'list': ["forecast_code"] # List of Forecasts loaded in the tradematrix Order by
    priority
51        },
52        'row': True,
53        'refresh': False,
54        'format': 'csv',
55      }
56
57    dl_url = f'https://api.dnext.io/v1.0/fundamentals/tradeflows/{code}/download'
58
59    res = requests.post(dl_url, headers=my_headers, data=json.dumps(data))
60
61    task_id = res.json()['task']['id']
62
63    data_ready = _get_task_status(task_id, token)
64
65    if data_ready:
66        data_url = res.json()['result']['url']
67        data_resp = requests.get(data_url)
68        df = pd.read_csv(BytesIO(data_resp.content))
69
70    else:
71        df = None
72
73    return df
74
75
76  df = download_tradeflow(<tradeflow_code>, <your_token>)
```

you can fetch the TradeMatrix code from the url directly



or from the "Code" column in the list of TradeMatrixes

you can fetch the forecast code from the TradeMatrix by following these steps :

1. click on the forecast button on the top right menu in the TradeMatrix
2. click on "Load"

3. Copy the code within the parentheses that comes after the forecast name in the right panel where the forecasts loaded into the trade matrix are displayed.