

Scripts

Different types of scripts to extract data here and there.

- [Internet Archive Usage Data > CSV Python Script](#)
- [GraphQL Script to extract Author Affiliations from the Thoth Catalog](#)
- [GraphQL Script to Get Books Published per Year](#)
- [Extracting DOIs from a PDF \(requires manual check still because of line breaks\)](#)
- [Uploading extracted DOIs to Thoth](#)

Internet Archive Usage Data

> CSV Python Script

```
import requests
import csv
```

Define the list of item IDs and the time period

```
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"2f93b300-f147-48f5-95d5-afd0e0161fe6",
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"2ab1260f-3a24-4793-94a2-f05669a9fcd9",
"fdd9e45a-08b4-4b98-9c34-bada71a34979",
"89f9c84b-be5c-4020-8edc-6fbe0b1c25f5",
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"fd67d684-aaff-4260-bb94-9d0373015620",
"79464e83-b688-4b82-84bc-18d105f60f33",
"5147a952-3d44-4beb-8d49-b41c91bce733",
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"45aa16fa-5fd5-4449-a3bd-52d734fcb0a9",
"15ab17fe-2486-4ca5-bb47-6b804793f80d",
"00e012c5-9232-472c-bd8b-8ca4ea6d1275",
"501a8862-dc30-4d1e-ab47-deb9f5579678",
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"f4a04558-958a-43da-b009-d5b7580c532f",
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"af1d6a61-66bd-47fd-a8c5-20e433f7076b",
"ce7ec5ea-88b2-430f-92be-0f2436600a46",
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```

"3b817d8c-864e-4050-90e2-371c64a3e22e",
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"ec0cc90a-1765-4ef2-8829-9f2342c9c922",
"a973a771-e305-4582-9f2e-f81c4d925172",
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"8cdf585-a3bf-41ac-969c-5f29d6993604",
"1ebc4e44-344c-42a7-876a-85e2b07a3bec",
"6244a086-636e-4756-bf5e-f803a78ffbc4",
"d8b26c64-3054-4f6a-a632-1225fa769dc8",
"29a54313-4659-4a83-825c-fa01b3284a21",
"5629d4a6-95ab-4561-8de6-21a674eff06d"]
start_date = "2022-11-01"
end_date = "2022-11-30"

```

```

# Create a list to hold the access data
access_list = []

```

```

# Iterate over the list of item IDs and retrieve the access data for each item
for item_id in item_ids:

```

```

    # Build the API call URL for the current item ID

```

```

    url = f"https://be-api.us.archive.org/views/v1/detail/item/{item_id}/{start_date}/{end_date}"

```

```

# Make the API call and extract the relevant access data
response = requests.get(url).json()
access_data = response["counts_geo"]

# Add each count_kind in the access data to the list as a separate row
for count_data in access_data:
    count_kind = count_data["count_kind"]
    geo_country = count_data["geo_country"]
    sum_count_value = count_data["sum_count_value"]
    access_dict = {"start_date": start_date, "item_id": item_id, "count_kind": count_kind, "access":
sum_count_value, "country": geo_country}
    access_list.append(access_dict)

# Write the access data to a CSV file
filename = f"access_data_{start_date}.csv"
with open(filename, 'w', newline='') as file:
    writer = csv.writer(file)
    # Write the header row
    writer.writerow(["start_date", "item_id", "count_kind", "access", "country"])
    # Write the data rows
    for access_dict in access_list:
        access = access_dict.get("access")
        country = access_dict.get("country")
        writer.writerow([access_dict["start_date"], access_dict["item_id"], access_dict["count_kind"],
access, country])

```

GraphQL Script to extract Author Affiliations from the Thoth Catalog

```
{ affiliations(publishers: ["9c41b13c-cecc-4f6a-a151-be4682915ef5"], limit: 9999) { institution { institutionName countryCode updatedAt } contribution { fullName contributionType contributor { orcid } work { title subtitle workType workStatus publicationDate landingPage updatedAtWithRelations} } } }
```

When you want these data for all publishers:

```
{ affiliations(limit: 9999) { institution { institutionName countryCode updatedAt } contribution { fullName contributionType contributor { orcid } work { title subtitle workType workStatus publicationDate landingPage updatedAtWithRelations} } } }
```

GraphQL Script to Get Books Published per Year

```
{  
  books(order: {field: PUBLICATION_DATE, direction: ASC}, publishers: ["9c41b13c-cecc-4f6a-a151-be4682915ef5"], limit: 9999, workStatus: ACTIVE) {  
    fullTitle  
    doi  
    publicationDate  
  }  
}
```

Extracting DOIs from a PDF (requires manual check still because of line breaks)

```
import pdfplumber
import re
import csv
import os
from datetime import datetime

def extract_dois_from_pdf(pdf_path):
    """
    Extracts DOI numbers from the given PDF file and returns a list of DOIs.
    Removes the final period if it's part of the DOI.
    Fixes DOIs split across line breaks.
    """
    dois = []
    with pdfplumber.open(pdf_path) as pdf:
        for page in pdf.pages:
            # Extract text from the page
            text = page.extract_text()
            if text:
                # Step 1: Join the lines into a single block of text
                text = ' '.join(text.splitlines())

                # Step 2: Fix broken DOIs that split after a period (.) or a slash (/)
                # We look for a line break after a period or slash and then merge it with the next part.
                text = re.sub(r'([\.\.\/])\s*(?=\d)', r'\1', text) # Merge split DOI after period or slash

                # Step 3: Use regex to find DOI numbers
                doi_pattern = r'\b10\.\d{4,9}/[-._;()/:A-Z0-9]+(?:=\b|s|$)'
                found_dois = re.findall(doi_pattern, text, re.IGNORECASE)

                # Step 4: Remove the final period if it's part of the DOI
                cleaned_dois = [doi.rstrip('.') for doi in found_dois]
                dois.extend(cleaned_dois)

    return dois
```

```

def save_dois_to_csv(dois, pdf_path):
    """
    Save the extracted DOIs to a CSV file with consecutive numbering.
    The output file name contains the input PDF name and a timestamp.
    """
    # Get the base name of the input PDF file (without extension)
    base_name = os.path.splitext(os.path.basename(pdf_path))[0]

    # Get the current timestamp in the format YYYY-MM-DD_HH-MM-SS
    timestamp = datetime.now().strftime('%Y-%m-%d_%H-%M-%S')

    # Generate the output CSV file name
    output_csv_path = f"{base_name}_{timestamp}_dois.csv"

    with open(output_csv_path, mode='w', newline="", encoding='utf-8') as file:
        writer = csv.writer(file)
        # Write DOIs with consecutive numbering in the first column
        for idx, doi in enumerate(dois, start=1):
            # Prefix "https://doi.org/" to each DOI
            doi_url = f"https://doi.org/{doi}"
            writer.writerow([idx, doi_url]) # Write the index and the prefixed DOI

    print(f"DOIs have been saved to {output_csv_path}")
    return output_csv_path

def main():
    pdf_path = '0446.1.00.pdf' # Path to the input PDF file

    # Extract DOIs from PDF
    dois = extract_dois_from_pdf(pdf_path)

    if dois:
        print(f"Found {len(dois)} DOIs. Saving to CSV...")
        # Save the extracted DOIs to a CSV file
        save_dois_to_csv(dois, pdf_path)
    else:
        print("No DOIs found in the PDF.")

if __name__ == "__main__":
    main()

```


Uploading extracted DOIs to Thoth

```
import thothlibrary
import csv
```

```
# Log in to Thoth
email = "XXX@punctumbooks.com" # Replace with your email
password = "XXX" # Replace with your password
```

```
thoth = thothlibrary.ThothClient()
thoth.login(email, password)
```

```
# Define the work_id (this should be specific to the work you're uploading references for)
work_id = "6244a086-636e-4756-bf5e-f803a78ffbc4" # Replace with the actual work_id
```

```
# Path to your CSV file containing the DOI data
csv_file_path = "0446.1.00_2025-02-04_11-33-41_dois.csv" # Replace with your CSV file path
```

```
# Read and process the CSV file
with open(csv_file_path, mode='r', newline='', encoding='utf-8') as file:
    reader = csv.reader(file)
```

```
for row in reader:
    if row: # Ensure the row is not empty
        reference_ordinal = row[0] # First column: reference ordinal
        doi = row[1] # Second column: DOI
```

```
# Construct the reference dictionary
reference = {
    "workId": work_id,
    "referenceOrdinal": reference_ordinal,
    "doi": doi,
    "unstructuredCitation": None,
    "issn": None,
    "isbn": None,
    "journalTitle": None,
    "articleTitle": None,
    "seriesTitle": None,
    "volumeTitle": None,
```

```
"edition": None,  
"author": None,  
"volume": None,  
"issue": None,  
"firstPage": None,  
"componentNumber": None,  
"standardDesignator": None,  
"standardsBodyName": None,  
"standardsBodyAcronym": None,  
"url": None,  
"publicationDate": None,  
"retrievalDate": None,  
}
```

```
# Upload the reference to Thoth and get the reference ID  
reference_id = thoth.create_reference(reference)  
print(f"Reference ID for DOI {doi}: {reference_id}")
```