



# Hackathon DTS API

## Hack DTS 2 CSV

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Github :

<https://github.com/AudricWannaz/DTS2CSV/tree/main/dts2csv>

Deployed :

<https://share.streamlit.io/audricwannaz/dts2csv/main/dts2csv/streamlitdts2csv.py>



# Structure

1. Objectives
2. Architecture
3. Frontend GUI
4. Backend Processor
5. Examples



# 1. Objectives

Make processing of DTS contents  
by third-party application easier

**Solution** : download contents as CSV

```
{  
  "@context": "/api/dts/contexts/EntryPoint.jsonld",  
  "@id": "api/dts",  
  "@type": "EntryPoint",  
  "collections": "/api/dts/collections",  
  "documents": "/api/dts/documents",  
  "navigation": "/api/dts/navigation"  
}
```

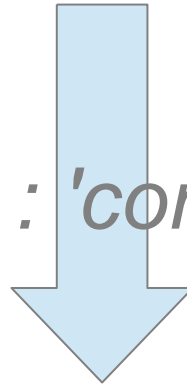




## 2. Architecture

**Frontend GUI** python

*{'Json' : 'config file'}*



**Backend Processor** python



### 3. Frontend GUI

- Powered by Streamlit (<https://streamlit.io/>)
- Allows fast-easy basic config
- Step-by-step panels
- Both for novice and advanced users  
(highly customizable)
- Can be used locally or deployed on web server





## 3. Frontend GUI

← → ↻ 🏠 localhost:8501 ☆ 📧 ⬇️ 📖 🌈 🚫

×

Navigate by clicking

II.Parameters ▾

\*

Session state upon entry (II.Parameters) +

Progress:

## II. Parameters

Explore target API and select parameters

Name of the CSV file:

output

Collections and Documents —

Collections name:

collections

Documents name:

document

Advanced —

Enter a valid collection ID

### JSON VIEWER

```
{
  "documents" : "/api/dts/document"
  "@id" : "/api/dts"
  "@context" : "dts/EntryPoint.jsonld"
  "navigation" : "/api/dts/navigation"
  "collections" :
    "/api/dts/collections"
  "@type" : "EntryPoint"
}
```



## 3. Frontend GUI

×

Navigate by clicking

IV.Resources ▾

\*

Session state upon entry (IV.Resources) +

Progress:

### Describe the resources

How many parameters do you need?



Enter

dbs\_id?

dts:extensions/ns1:language

csv\_name?

language

submit resources

resources updated





## 4. Backend Processor

- Automatic walk through collections and resources
- Can start from a given collection and stop at a given depth
- Extract basic info + custom params
  - ex : `'dts:extensions/ns1:language' => 'language'`
- Can download TEI and convert to Txt/Html
  - ! needs Saxon/Tei-XSL available on host
- Compute statistical infodata
  - NbWords, nbLines, nb Total Resources

## 4. Backend Processor

```
"SAXON_JAR_PATH": "HOME/dev/tei/install/SaxonHE10-5J/saxon-he-10.5.jar",
"TEI_XSL_STYLESHEETS_PATH": "HOME/dev/tei/install/tei-xsl",
"DTS_URL": "https://dev.chartes.psl.eu/api/nautilus/dts/",
"DTS_COLLECTIONS_ENTRYPOINT": "collections",
"DTS_DOCUMENTS_ENTRYPOINT": "document",
"START_COLLECTION_ID": "default",
"MAX_DEPTH": "None",
"RETRIEVE_FILES": "True",
"TRANSFORM_TEI_TO_TXT": "True",
"TRANSFORM_TEI_TO_HTML": "False",
"INLINE_TXT_IN_CSV": "True",
"COLLECTIONS": [
  {"dts_id": "title"},
  {"dts_id": "dts:extensions/ns1:creator[0]/@value", "csv_name": "author"},
  {"dts_id": "dts:extensions/ns1:date", "csv_name": "year"},
  {"dts_id": "dts:extensions/ns1:language", "csv_name": "language"}
],
"RESOURCES": [
  {"dts_id": "dts:extensions/ns1:language", "csv_name": "language"},
  {"dts_id": "title", "mandatory": "True"},
  {"dts_id": "dts:extensions/cts:description[0]/value", "csv_name": "description"}
]
```



## 4. Backend Processor

```
(base) macbook-pro-de-admin-1:perseids laurentml$ python ../../dts2csv/dts2csv.py ../../dts2csv/sample_configs/dts2csv-config-
dts2csv-config-alpheios.json dts2csv-config-perseids.json dts2csv-config-these_enc.json
(base) macbook-pro-de-admin-1:perseids laurentml$ python ../../dts2csv/dts2csv.py ../../dts2csv/sample_configs/dts2csv-config-perseids.json
[C] urn:perseids:latinLit
  [C] urn:cts:latinLit:phi9500
    (2) [C] urn:cts:latinLit:phi9500.phi035
      [R] urn:cts:latinLit:phi9500.phi035.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.phi9500.phi035.opp-lat1.xml
generating ./dts2csv_extract/files/cts.latinLit.phi9500.phi035.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
[C] urn:cts:latinLit:stoa0007
  [C] urn:cts:latinLit:stoa0007.stoa002
    [R] urn:cts:latinLit:stoa0007.stoa002.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.stoa0007.stoa002.opp-lat1.xml
generating ./dts2csv_extract/files/cts.latinLit.stoa0007.stoa002.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
[C] urn:cts:latinLit:stoa0022
  [C] urn:cts:latinLit:stoa0022.stoa014
    [R] urn:cts:latinLit:stoa0022.stoa014.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa014.opp-lat1.xml
generating ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa014.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
[C] urn:cts:latinLit:stoa0022.stoa015
  [R] urn:cts:latinLit:stoa0022.stoa015.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa015.opp-lat1.xml
generating ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa015.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
[C] urn:cts:latinLit:stoa0022.stoa019
  [R] urn:cts:latinLit:stoa0022.stoa019.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa019.opp-lat1.xml
generating ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa019.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
[C] urn:cts:latinLit:stoa0022.stoa021
  [R] urn:cts:latinLit:stoa0022.stoa021.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa021.opp-lat1.xml"; "author");
generating ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa021.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
[C] urn:cts:latinLit:stoa0022.stoa025
  [R] urn:cts:latinLit:stoa0022.stoa025.opp-lat1"; "csv_name": "language"}
downloading ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa025.opp-lat1.xml
generating ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa025.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
[C] urn:cts:latinLit:stoa0022.stoa029
```

## 5. Examples – Metaindex GUI

← → ↺ 🏠

🔒 <https://metaindex.fr/webapp/items#page-top> ☆

📧 ⬇️ 📄 🌈 📱 📺 📺 📺 ☰

DEMO DTS

⚙️ Panneau Des Catalogues

📄 Créer un(e) Document

📄 Import/Export Documents >

📊 Statistiques >

🔍 Filtres >

⬅️

Metaindex

🔍 Rechercher ... 🔍 ✕ ☆ Trier par ... ▼ Croiss. ▼

Laurent Admin 😊

Documents 1946 / 1946 ⚙️ ◀ ▶

✕ Ajouter un champ Mode Edition ⚙️

ID: cts.latinLit.stoa0022.stoa021  
Dernière modification: 2021/10/07 21:31:40 par Laurent Admin

sourceid: dts.perseids.org	nblines: 3767	parent:	nbchars: 144080
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		Ambrose, Saint, Bishop of Milan	
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dtstype: Collection	entrypoint: <a href="https://dts.perseids.org/collections">https://dts.perseids.org/collections</a>	<a href="https://dts.perseids.org/collections?id=urn:cts:latinLit:stoa0022.stoa021">https://dts.perseids.org/collections?id=urn:cts:latinLit:stoa0022.stoa021</a>	nbwords: 23957
		References: 0	
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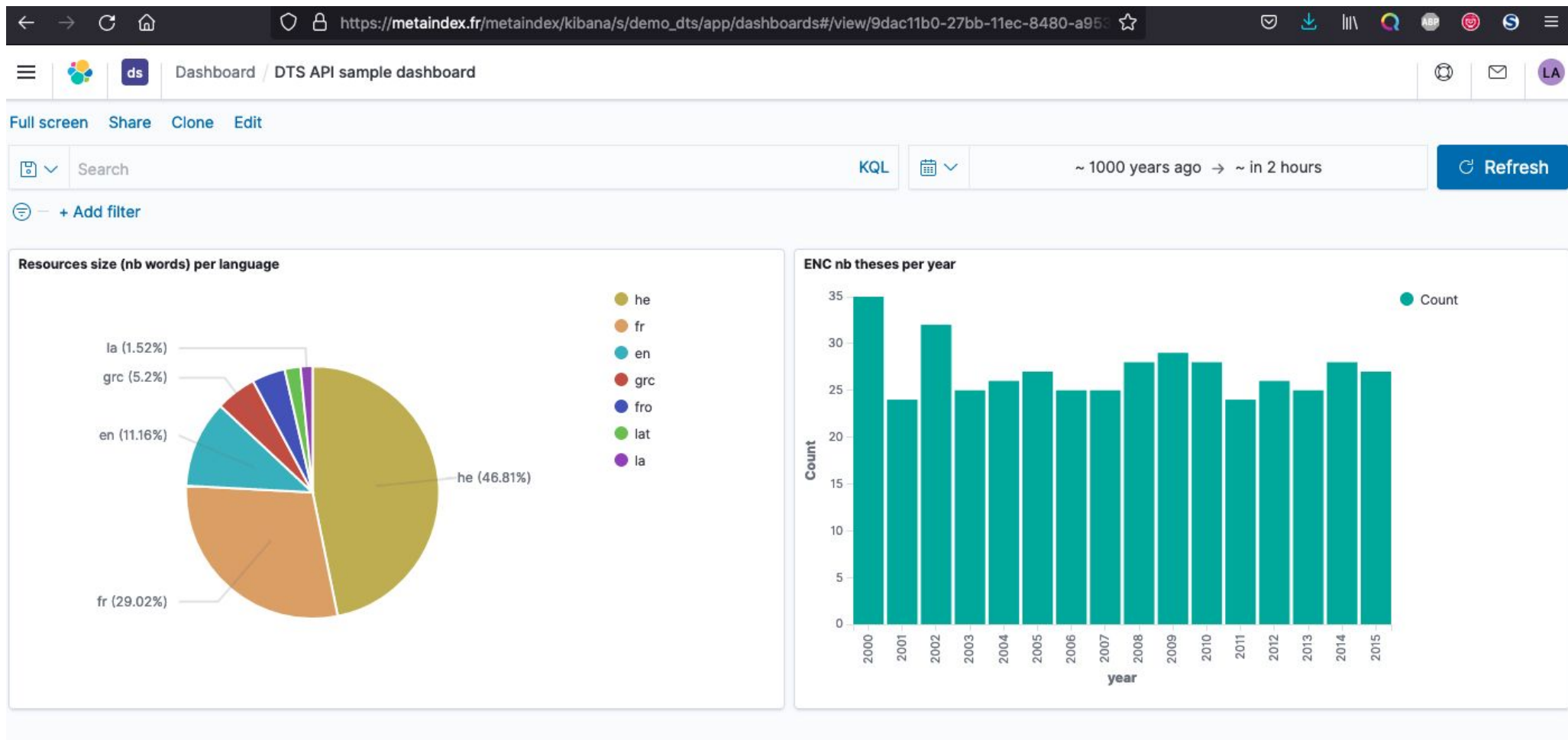
Latin perseids.latinLit	Anonymous cts.latinLit.phi9500	Epitaphium Ennodii cts.latinLit.phi9500.phi035	Adamnan Saint 6257-704 cts.latinLit.stoa0007	De Locis Santis cts.latinLit.stoa0007.stoa002	Ambrose, Saint, Bishop of Milan cts.latinLit.stoa0022	Apologia Altera Prophetæ David cts.latinLit.stoa0022.stoa014
De	De Cain et	De Helia et	De Fuga	De	De Iacob	

+

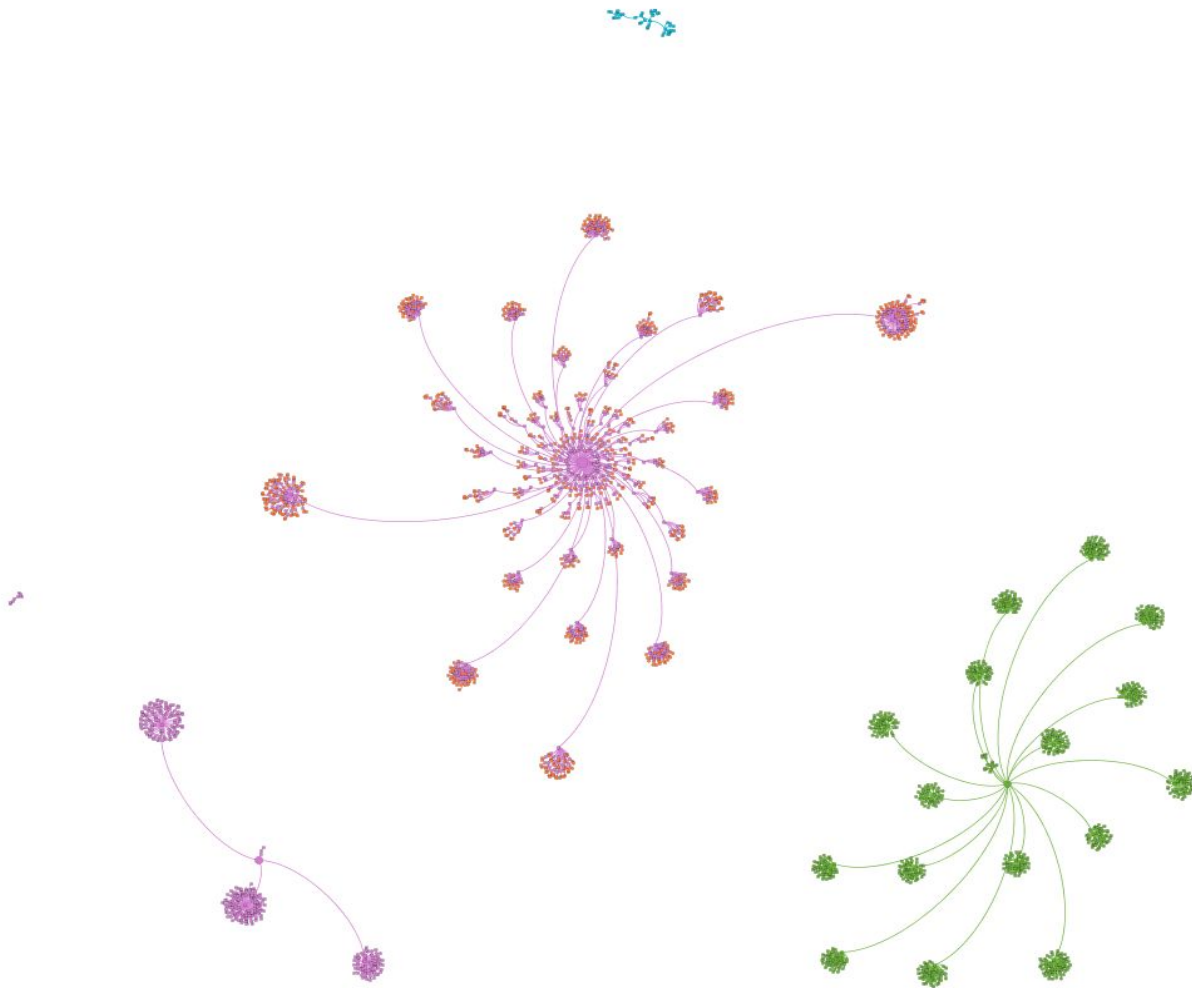
<https://dts.perseids.org/collections?id=urn:cts:latinLit:stoa0022.stoa021>



## 5. Examples – Metaindex - Kibana



## 5. Examples – Metaindex - Gephi

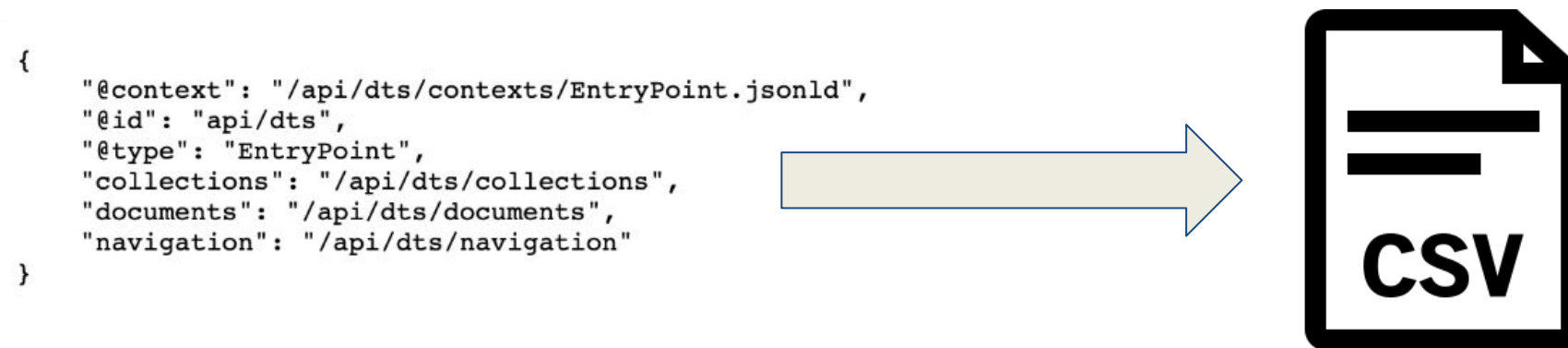


### Collections

- [Alpheios](#)
- [Perseids](#)
- [Thèses ENC](#)



# THANKS FOR YOUR ATTENTION!



Streamlit

Metaindex

Share, explore, analyze, understand your data with an open-source software