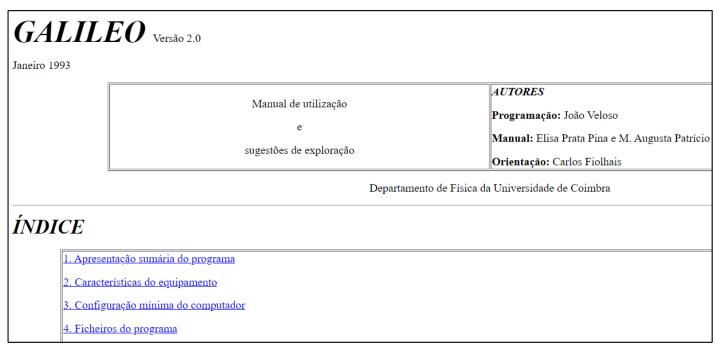


# Arquivo.pt CitationSaver: Preserving Citations for Online Documents

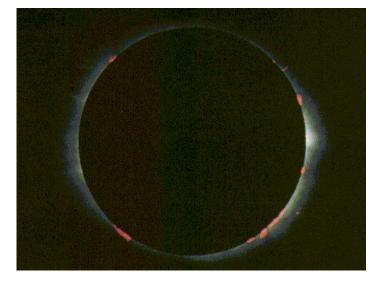
Pedro.Gomes@fccn.pt

Daniel.Gomes@fccn.pt

# Arquivo.pt **preserves** historical content **published online**

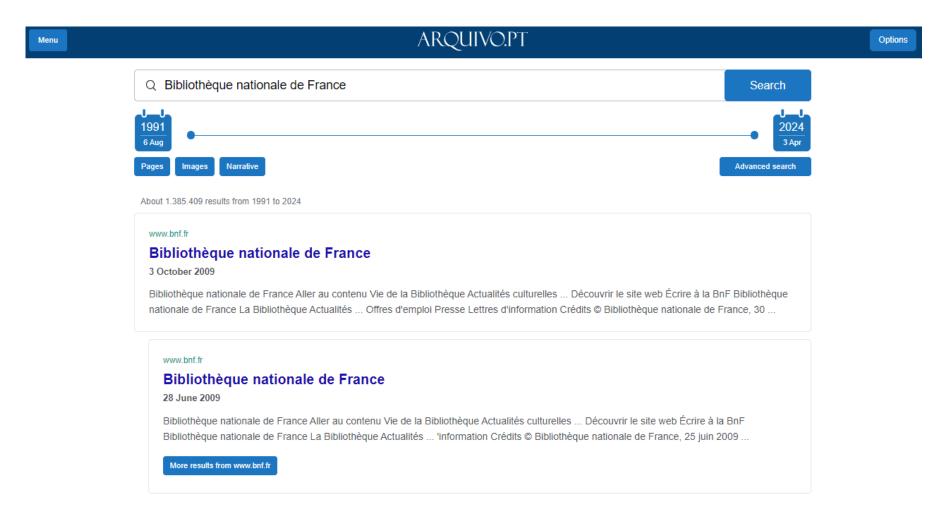


nautilus.fis.uc.pt- 1993 (oldest page)

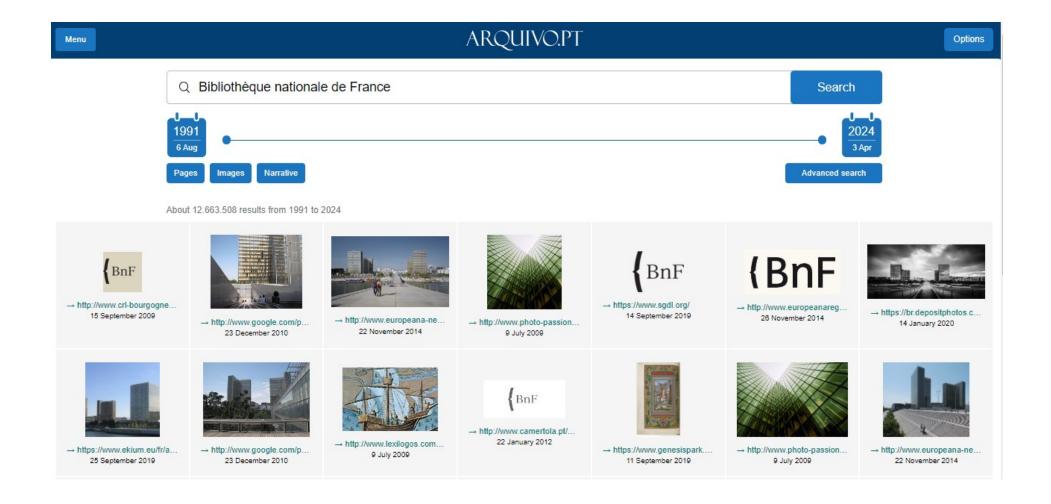


spacelink.nasa.gov - 1992
 (oldest image)

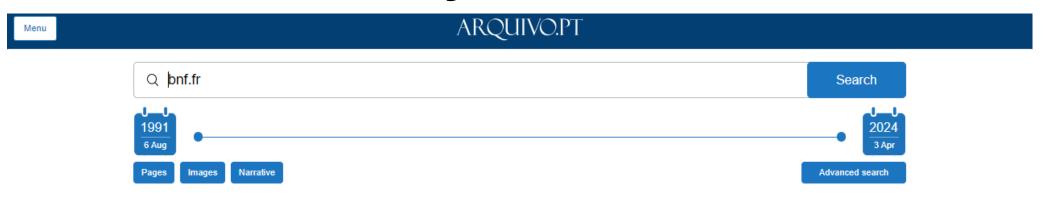
## Search for texts from past



## Search for images from past



## Search the **history** of an URL



About 202 results from 1991 to 2024

											<b>⊞</b> Table	<b>!≡</b> List											-
2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
							14 Mar	28 Jun					6 Sep		9 Jan	6 Jun	6 Apr	14 Mar	12 Jan	11 Jan	19 Jan	24 Jan	
							22 Oct	2 Oct					24 Nov		15 May	20 Jun	12 Jul	14 Mar	12 Jan	11 Jan	25 Jan	24 Jan	
								3 Oct					26 Nov		20 May	3 Aug	22 Jul	18 Mar	23 Jan	14 Jan	25 Jan	12 Feb	
																	19 Sep	20 Mar	23 Jan	18 Jan	25 Jan	15 Feb	
																	27 Sep	20 Mar	1 Feb	4 Mar	25 Jan	18 Feb	
																	28 Sep	27 Mar	5 Feb	4 Mar	11 Apr	18 Feb	
																	1 Oct	27 Mar	5 Feb	30 Apr	16 Apr	21 Mar	
																	4 Oct	2 Apr	7 Feb	30 Apr	16 Apr	21 Mar	
																	5 Nov	17 Apr	14 Feb	30 Apr	16 Apr	21 Mar	
																		17 Apr	7 Mar	2 Jun	24 Apr		

### Arquivo.pt is an **international** and **interdisciplinary** service

#### Half of the users are international

Country	Users % Users
1. Portugal	46,891 46.56%
2. Inited States	26,373 26.19%
3. S Brazil	2,266   2.25%
4. Russia	2,234   2.22%
5. 🔛 United Kingdom	2,231   2.22%
6. Japan	2,172   2.16%
7. Canada	1,237   1.23%
8. Mozambique	1,213   1.20%

#### Source of data for **Artificial Intelligence**

Generating a European Portuguese BERT
Based Model Using Content from Arquivo.pt
Archive

Nuno Miquelina ♥, Paulo Quaresma & Vítor Beires Nogueira

Conference paper | First Online: 21 November 2022

608 Accesses

Part of the Lecture Notes in Computer Science book series (LNCS,volume 13756)

#### More than 1,000 academic references





#### Services catalog of the Arquivo.pt web archive

Last updated on October 26th, 2023 at 05:47 pm

#### Public services

- Search and access web-archived data since the 1990s
- Application Programming Interfaces (APIs)
- Suggest websites to be preserved
- SavePageNow: immediately archive web pages
- · Integration of historical web data collections
- · Training on web preservation
- · Open data listing archived web information on various topics
- CitationSaver: extracts links from documents and archives the correspondent web pages
- Arquivo404: presents web-archived pages instead of "pages not found"

#### For partners

- · Memorial preserves your old website information before deactivating it
- High-quality archive of websites (on-demand)
- · Creation of collections and thematic exhibitions
- Itinerant exhibition of posters at your facilities

# All services at <a href="mailto:arquivo.pt/catalog">arquivo.pt/catalog</a>

# New Service CitationSaver

# Problem: **scientific citations** for online resources can get **broken**



Publications lose scientific value because it becomes impossible to reproduce experiments.

### A serious problem that affects all areas of science

The FASEB Journal HOME CURRENT ISSUE NEW ARTICLES | ARCHIVE | ALERTS | RSS □ SUBMIT | HELP « Previous | Next Article » Unavailability of online supplementary Table of Contents scientific information from articles This Article published in major journals 10.1096/fj.05-4784lsf December 2005 Evangelos Evangelou<sup>\*,†</sup>, Thomas A. Trikalinos<sup>\*,†</sup> and John P.A. Ioannidis<sup>\*,†‡</sup> The FASEB Journal vol. 19 no. 14 1943-1944 + Author Affiliations » Abstract Full Text □Correspondence: 1Correspondence: Department of Hygiene and Epidemiology, Full Text (PDF) University of Joannina School of Medicine, Joannina 45110, Greece, E-mail: + Classifications me01760@cc.uoi.gr + Services

Persistence and Decay of Web Citations Used in Theses and Dissertations Available at the Sokoine National Agricultural Library, Tanzania

**ACADEMIC JOURNAL ARTICLE** 

By Sife, Alfred S.; Bernard, Ronald

International Journal of Education and Development using Information and Communication Technology, Vol. 9, No. 2, July 1, 2013

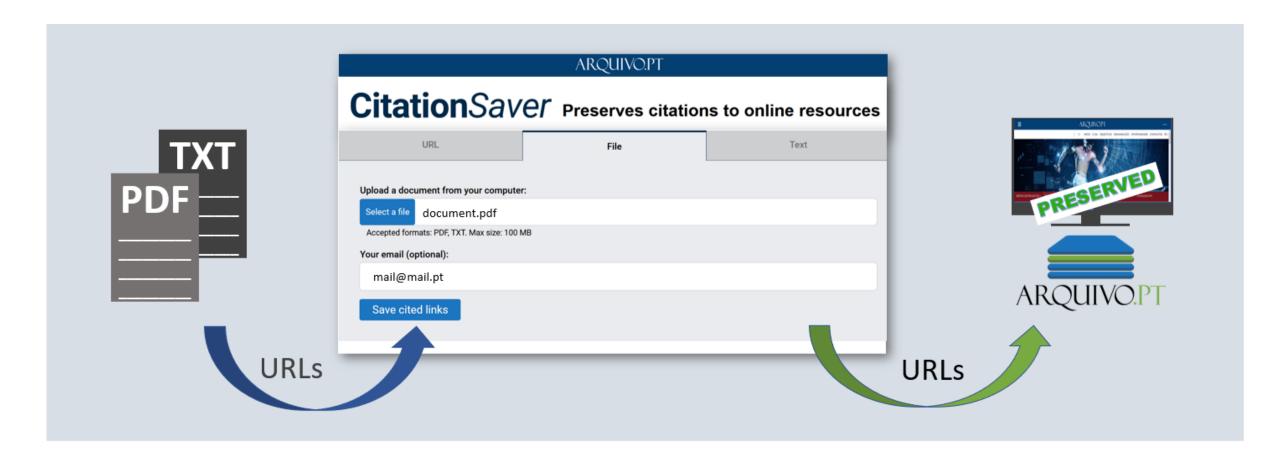
## Death of web citations: a serious alarm for authors

Malaysian Journal of Library & Information Science, Vol. 16, no. 3, December 2011: 17-29





## CitationSaver preserves citations in documents



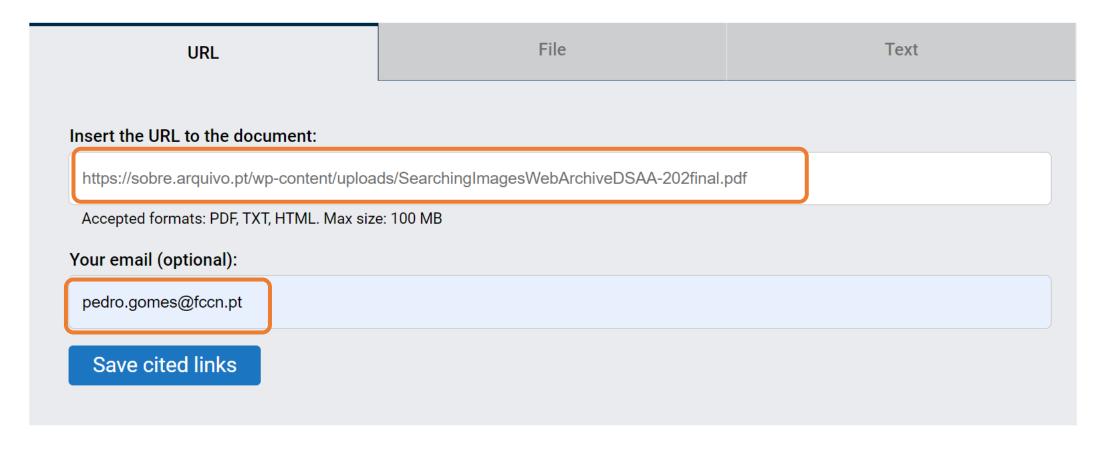
arquivo.pt/services/citationsaver?l=en

#### **Citation**Saver Preserves citations to online resources

Documents cite online content that quickly disappear.

CitationSaver preserves the content of cited links (e.g. web pages cited in a book) so that they can be later recovered from Arquivo.pt. <u>Learn more</u>

Submit a document and CitationSaver will preserve its cited links:

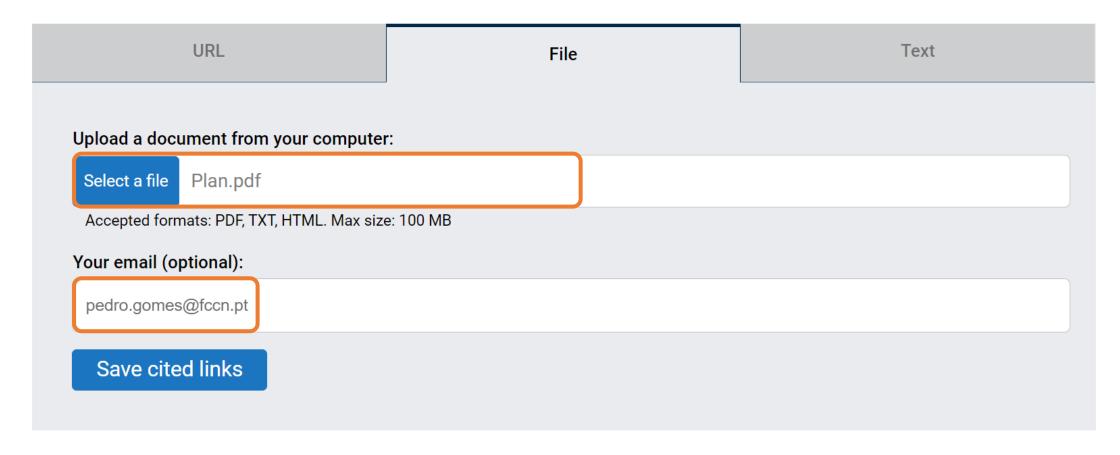


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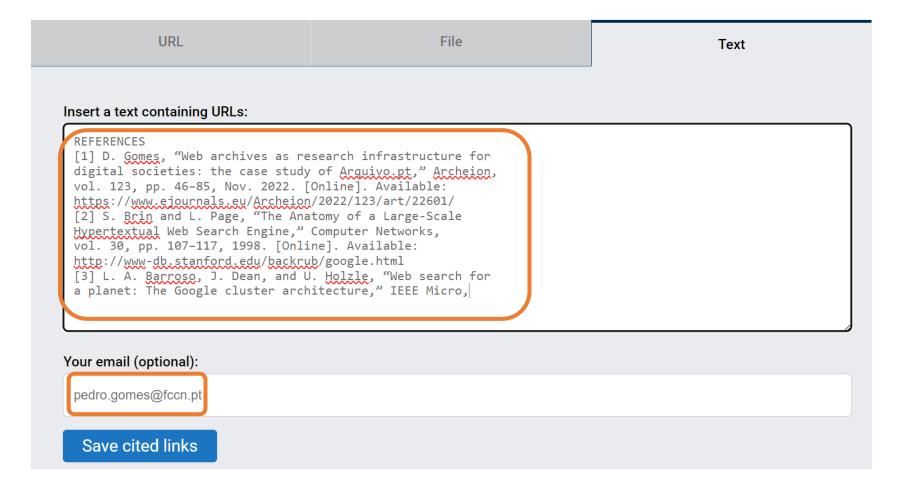


#### **Citation**Saver Preserves citations to online resources

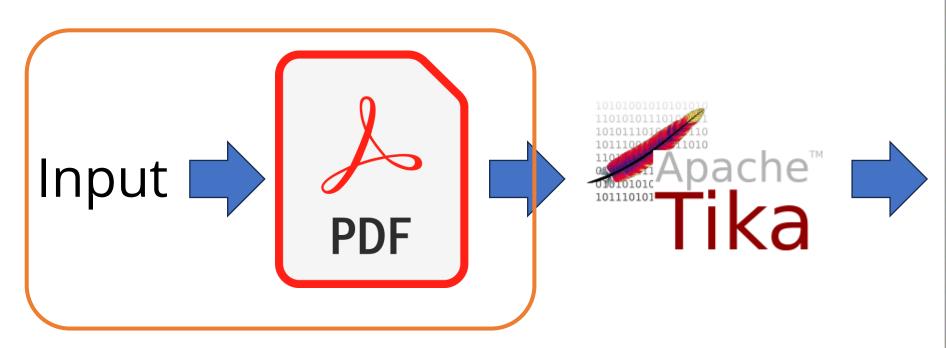
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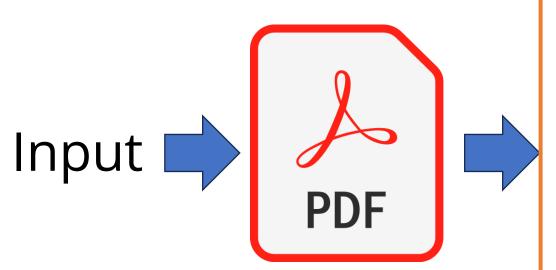


### How does it work?



```
https://hotmail.com
https://yahoo.com
https://google.com
```

How does it work?

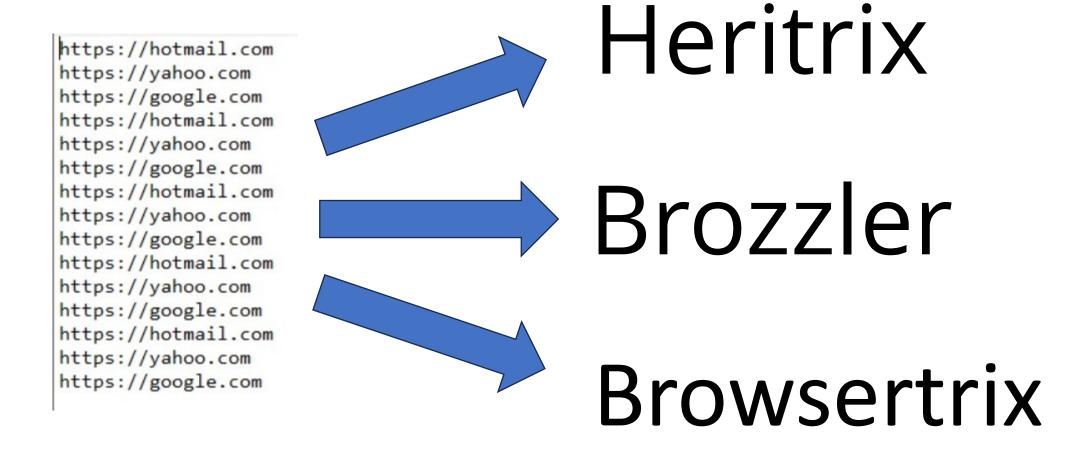






https://hotmail.com https://yahoo.com https://google.com https://hotmail.com https://yahoo.com https://google.com https://hotmail.com https://yahoo.com https://google.com https://hotmail.com https://yahoo.com https://google.com https://hotmail.com https://yahoo.com https://google.com

## How does it work?

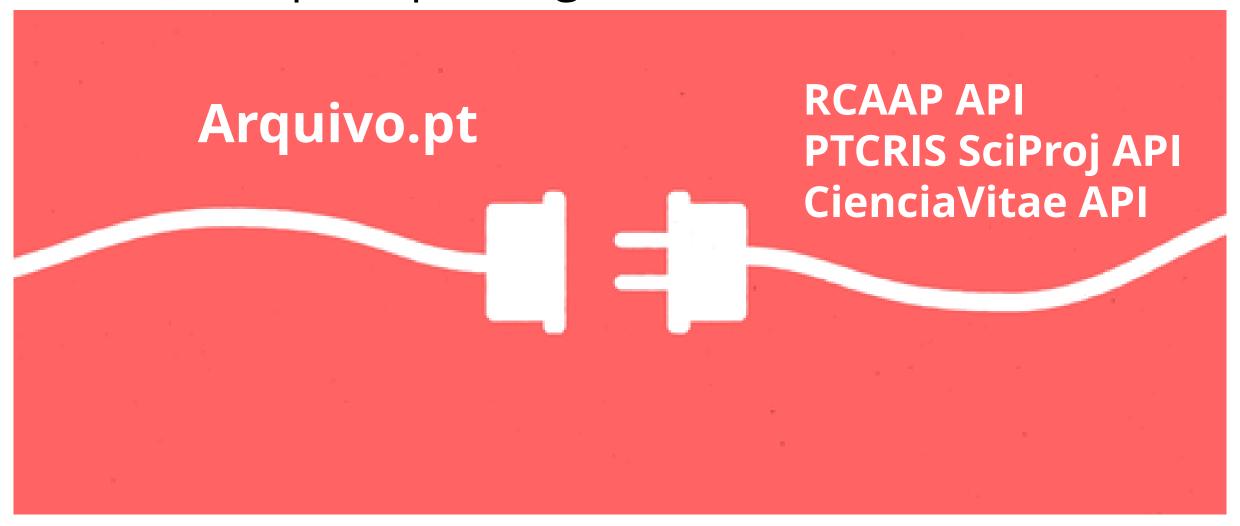


### CitationSaver Limitations

- We are depended on users to find scientific documents.
- Only one document can be submitted at a time.

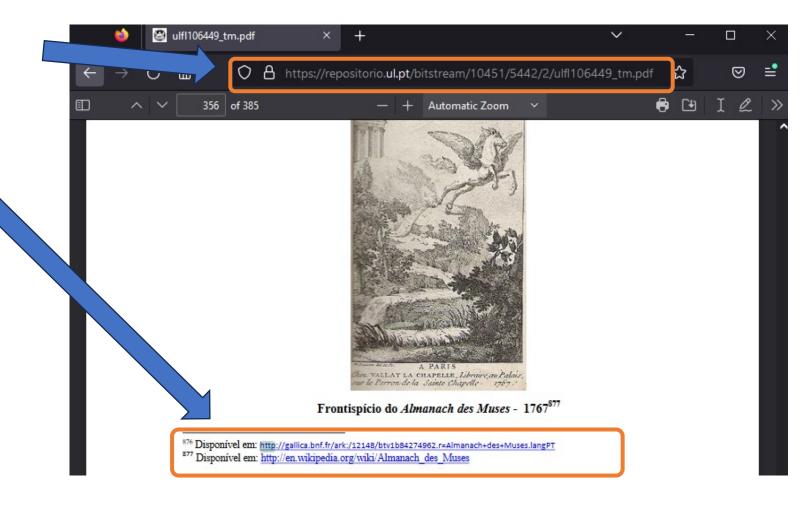


## To solve the limitations Arquivo.pt integrated external APIs

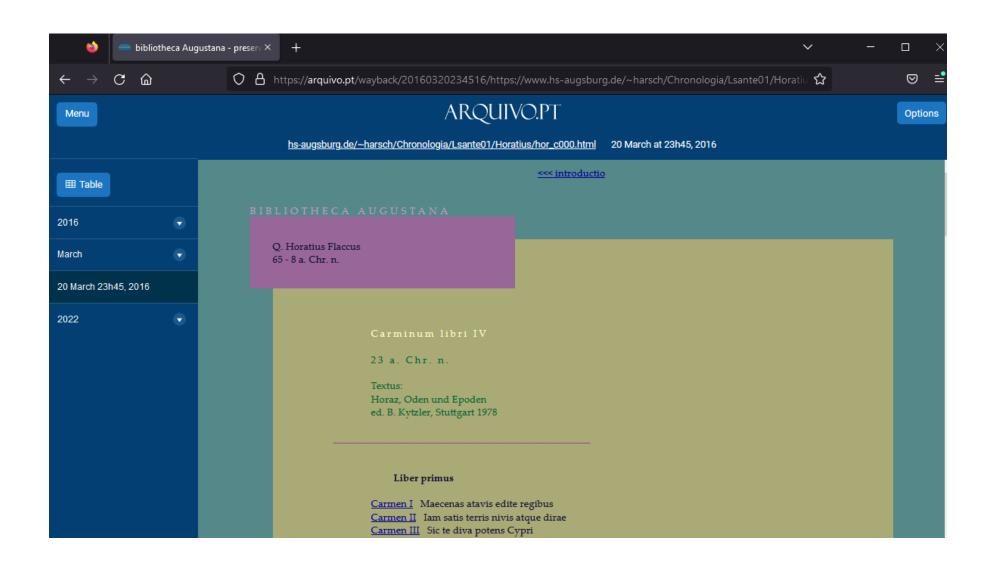


# RCAAP (Open Access Scientific Repository of Portugal) provides an API with access to PDFS

- 1. With the API, Get the links to the PDFs.
- 2. Download the PDFs
- 3. Extract the URLs using CitationSaver Service
- 4. Crawl the URLs



## Extracted and preserved



### Data obtained from the RCAAP API

- 151 466 PDFs
- 2 197 292 URLs
- 9.1 TB Stored



## arquivo.pt/services/citationsaver?l=en

contacto@arquivo.pt

