

Archives Unleashed



Winter 2020 Newsletter



Happy New Year!

Welcome back - let's catch up
and talk #WebArchiving.

Introducing

Tweet Archives Unleashed Toolkit (TWUT)

One of the newest features of Archives Unleashed, analyzing line-oriented JSON Twitter archives with Apache Spark.

Try it out:

<https://github.com/archivesunleashed/twut>

Archives Unleashed Notebooks + Google Colab

You can now use Archives Unleashed Toolkit derivatives (in Apache Parquet format) in a Google Colab environment! We have a variety of example notebooks.

Try it out:

<https://github.com/archivesunleashed/notebooks>

The Archives Unleashed Project: Technology, Process, and Community to Improve Scholarly Access to Web Archives

The Archives Unleashed project aims to improve scholarly access to web archives through a multi-pronged strategy involving tool creation, process modeling, and community building - all proceeding concurrently in mutually-reinforcing efforts. As we near the end of our initially-conceived three-year project, we report on our progress and share lessons learned along the way.

Preprint Available: <https://arxiv.org/abs/2001.05399>

Celebrating with our Collaborators

The Archives Unleashed Team would like to extend special thanks to two collaborators we've had an opportunity to work with over the past few months: Jeremy Wiebe and Gursimran Singh. Their contributions have helped to move the development and implementation of DataFrames support forward in strides.

What's been happening?

The Short List

Archives Unleashed Toolkit

Significant progress in the move from **Resilient Distributed Dataset (RDD)** to **DataFrames**;

Restructuring of documentation organization: users are now able to access a cookbook-esque type format, which has made information more user-friendly; and

Code refactoring: keeping long-term sustainability in mind, we've

focused on refactoring our code base to simplify it and reduce dependencies.

Archives Unleashed Cloud

Processed our largest collection yet! A 17.6 TB collection ([2012 Summer Olympics Collection](#)) from the [International Internet Preservation Consortium](#).

The Cloud officially celebrates two years in production!

Archives Unleashed Notebooks

Launched the Archives Unleashed Notebooks - a series of Jupyter Notebooks that provide example approaches to working with new web archive derivatives.

Connected Archives Unleashed Notebooks to the Google Colab environment!

Keep an eye out for future connections from our notebooks to the Archives Unleashed Cloud.

Participated in a number of conferences and scholarly meetings.

Currently planning our final datathon co-hosted with [Columbia University](#) (Butler Library) and [Ivy Plus Libraries Confederation](#); as well as an additional datathon after [IIPC's Web Archiving Conference](#).

For a comprehensive list of project developments see our recently published post: [Archives Unleashed Project: 2019 Progress Report](#)

Featured Articles

[Archives Unleashed: A Year in Review \(2019\)](#)

It's hard to believe that we are already two and a half years into the [Archives Unleashed Project](#)! So as we begin this new year, a new decade, and head into the final six months of this project, let's reflect on the work and milestones the Archives Unleashed

[The Archives Unleashed Toolkit as a Finding Aid Utility](#)

So, a finding aid. How could we create a finding aid for a web archive collection with relatively minimal labour? With the Archives Unleashed Toolkit, we can create a more robust finding aid. But, what should it be?

Team and community has reached.

[\(Read More...\)](#)

[\(Read More...\)](#)

[GeoCities and the spacer.gif](#)

Reflecting on a recent article by [Trevor Owens](#) and [Grace Thomas](#), Archives Unleashed developer Nick Ruest explores a large GeoCities dataset! The catch, he uses the [Archives Unleashed Toolkit](#) to identify 121,371,844 images for analysis.

[\(Read More...\)](#)

[twut. Wait, wut? Twut?](#)

Early-on, and up until earlier this year, the Archives Unleashed Toolkit had functionality built in for reading Twitter data into [RDDs](#), and processing them with a number of small methods that overlapped a bit with the [utilities](#) that [twarc](#) ships with. In an effort to simplify the Toolkit's codebase and dependencies, we removed all of that functionality.

[\(Read More...\)](#)

Check It Out

The Archives Unleashed Toolkit: Latest Documentation

Significant development updates on the Archives Unleashed Toolkit means we've revamped our documentation to help inspire exploration of your web archive collections.

Our documentation is divided into several main sections, which cover the Archives Unleashed Toolkit workflow from analyzing collections to understanding and working with the results.

We've taken a cookbook approach, which provide a series of "recipes" for addressing a number of common analytics tasks. You'll find examples for [Resilient Distributed Datasets](#)

Take the Archives Unleashed Toolkit for a spin: [aut-docs/current](#)

```
from aut import *

archive = WebArchive(sc, sqlContext, "/path/to/aut-resources-master/Sample-Data/*.gz")

df = archive.images()
df.show()
```

The Archives Unleashed Toolkit: Latest Documentation

The Archives Unleashed Toolkit is an open-source platform for analyzing web archives built on [Apache Spark](#), which provides powerful tools for analytics and data processing.

This documentation is based on a cookbook approach, providing a series of “recipes” for addressing a number of common analytics tasks to provide inspiration for your own analysis. We generally provide examples for [resilient distributed datasets \(RDD\)](#) in Scala, and [DataFrames](#) in both Scala and Python. We leave it up to you to choose Scala or Python flavours of Spark.

If you want to learn more about [Apache Spark](#), we highly recommend [Spark: The Definitive Guide](#)

Table of Contents

Our documentation is divided into several main sections, which cover the Archives Unleashed Toolkit workflow from analyzing collections to understanding and working with the results.

Getting Started

- [Setting Things Up](#)
- [Using the Archives Unleashed Toolkit at Scale](#)
- [Archives Unleashed Toolkit Walkthrough](#)

Generating Results

- Collection Analysis: How do I...
 - Extract All URLs
 - Extract Top-Level Domains

	url	filename	extension	mime_type	web_server	mime_type_1ka	width	height
	http://farm3.static.flickr.com/4047/878934_612f2ba...		.jpg	image/jpeg	image/jpeg	image/jpeg	100	75
	http://farm3.static.flickr.com/4047/881106_1c6777r...		.jpg	image/jpeg	image/jpeg	image/jpeg	75	100
	http://farm3.static.flickr.com/4047/879402_2720a...		.jpg	image/jpeg	image/jpeg	image/jpeg	75	100
	http://farm3.static.flickr.com/4047/877728_c6c18i...		.jpg	image/jpeg	image/jpeg	image/jpeg	75	100
	http://img.youtube.com/vg/0_0.jpg		.jpg	image/jpeg	image/jpeg	image/jpeg	400	360
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	http://img.youtube.com/vg/0_0.jpg		.jpg	image/jpeg	image/jpeg	image/jpeg	400	360
	http://www.canal5.com/Websources/footprint-carbon.jpg		.jpg	image/gif	image/gif	image/gif	1	1
	http://www.davids.com/footprint-carbon.jpg		.jpg	image/jpeg	image/jpeg	image/jpeg	200	200
	http://www.gca.ca.com/15.jpg		.jpg	image/jpeg	image/jpeg	image/jpeg	300	230
	http://www.equivall.com/loadinganimation.gif		.gif	image/gif	image/gif	image/gif	200	133
	http://www.davids.com/Keep-greening-green.jpg		.jpg	image/jpeg	image/jpeg	image/jpeg	160	252
	http://www.davids.com/Keep-greening-green.jpg		.jpg	image/jpeg	image/jpeg	image/jpeg	160	252
	http://www.davids.com/Keep-greening-green.jpg		.jpg	image/jpeg	image/jpeg	image/jpeg	150	252
	http://www.davids.com/Keep-greening-tit.jpg		.jpg	image/jpeg	image/jpeg	image/jpeg	470	45
	http://www.davids.com/last_minute2.jpg		.jpg	image/jpeg	image/jpeg	image/jpeg	265	330

Recent Workshops and Presentations

Feel free to check out presentation slides from some of the most recent presentations/workshops given by Archives Unleashed team members.










Web Archives: A Doorway to Access and Usability



Samantha Fritz, *MLIS*
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ACCESS Conference - September 30, 2019

September 2019

Project Manager, Samantha Fritz presented at [ACCESS](#) on identifying and applying theme of access and usability within open source projects, using the Archives Unleashed Project



Analyzing Web Archives with the Archives Unleashed Project

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CFDWARC Workshop - October 28, 2019

October 2019

Samantha Fritz and Sarah McTavish presented a mini workshop at [CEDWARC](#), to engage with library and archive professionals in exploring web archiving analysis. Presentations walk

as a case study.

through Toolkit examples, demos, and use of external tools.

[View Slides](#)

[View Overview Slides](#)

[View Workshop Slides](#)

Get Involved



Interested in getting involved with the Archives Unleashed Project? Connect with our team and help grow our community

Follow us on [Twitter](#)

Join our [Slack](#) group

Participate on [Github](#)

Subscribe to our [newsletter](#)

[Connect](#) and tell us how you've used our tools and platforms

Share our news with colleagues and friends

Twitter



GitHub

Website

Email

The Archives Unleashed Project aims to make petabytes of historical internet content accessible to scholars and others interested in researching the recent past. Supported by a grant from the Andrew W. Mellon Foundation, the project will develop web archive search and data analysis tools to enable scholars and librarians to access, share, and investigate recent history since the early days of the World Wide Web.

The Archives Unleashed Project

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