



Unsub Extender:

a Python-based web app to analyze Unsub data

Eric Schares
Engineering & Collection Analysis Librarian
eschares@iastate.edu
@eschares

Unsub Extender

Change a Journal's Subscribed status

Expand to select: +

Filters

Price (\$) between: 0 19410

Cost per Use Rank between: 0 430

Downloads between: 0 4082

Citations between: 0.00 846.40

Authorships between: 0.00 12.40

Weighted usage (DL + x*Cit + y*Auth) between: 0 10242

431 rows selected out of 431 rows, costing a total of \$2,120,290

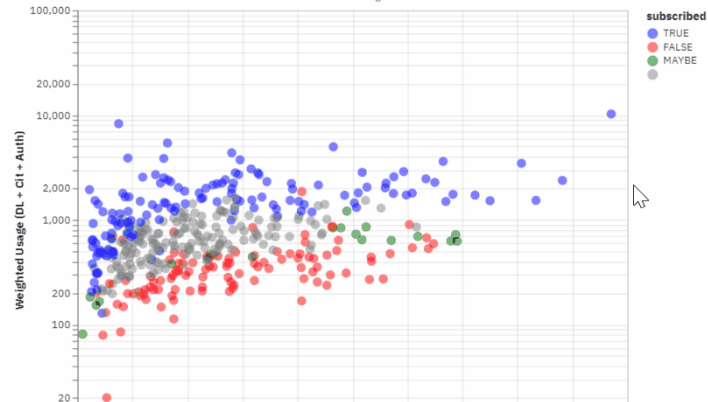
Show raw data

	count	sum
TRUE	135	\$685,728
MAYBE	19	\$146,030
FALSE	106	\$597,118
	171	\$691,414

Start by looking at the overall usage

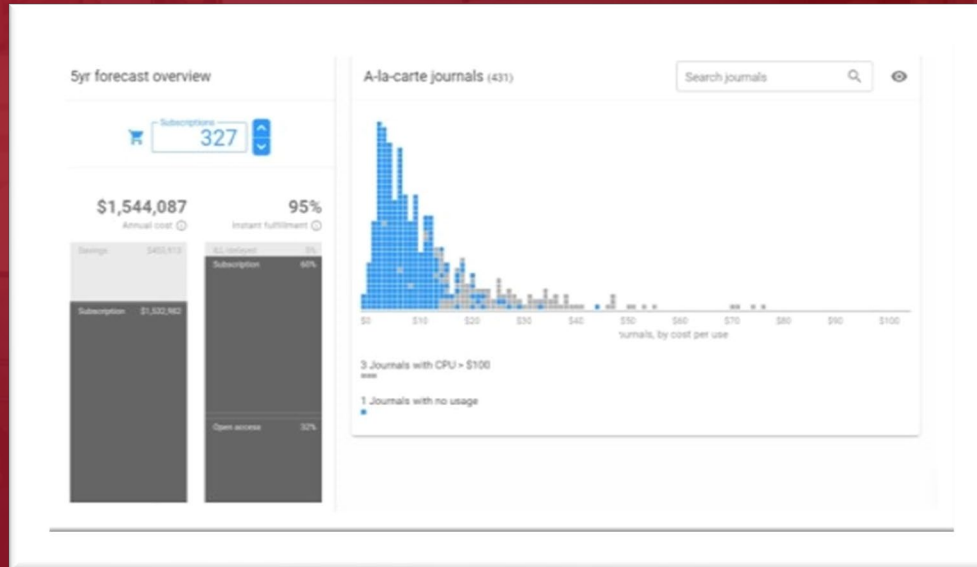
Total Weighted Usage vs. Cost, color-coded by Subscribed status; clickable legend

Graph supports pan, zoom, and live-updates from changes in filters on left sidebar
Journals on the underside of this curve might be considered for cancellation



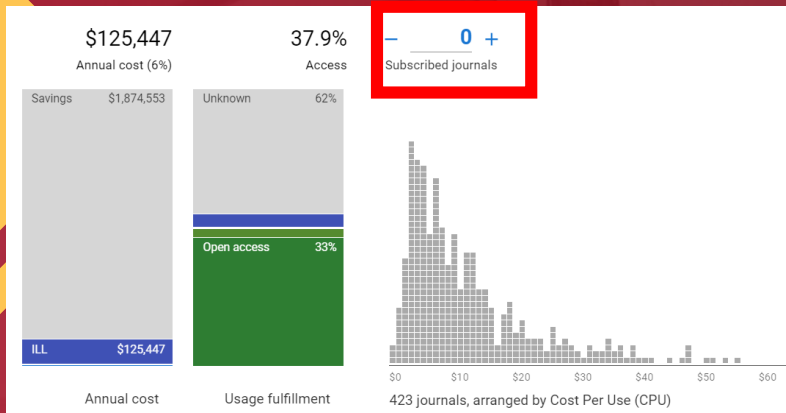
Unsub data

- Unsub is a collection analysis tool to evaluate journal subscriptions
 - Open Access availability, backfile fulfillment, downloads, citations, authorships
- Provides lots of detailed data, but only one visualization



Export

- Set to 0 titles subscribed, force Unsub to rely on different modes of fulfillment
- Go to Export tab and Download your .csv file



The screenshot shows the 'First Scenario' interface with the following elements:

- Navigation tabs: 5yr Forecast, Parameters, **Export** (highlighted with a mouse cursor), and Missing P.
- Text: "You can export all of the data in this scenario as a CSV file. You can find [documentation for the column names here](#)."
- Text: "To further explore and visualize your exported data, check out [Unsub Extender](#), a free third-party tool created by Eric Schares, a librarian at Iowa State University."
- Button: **DOWNLOAD**

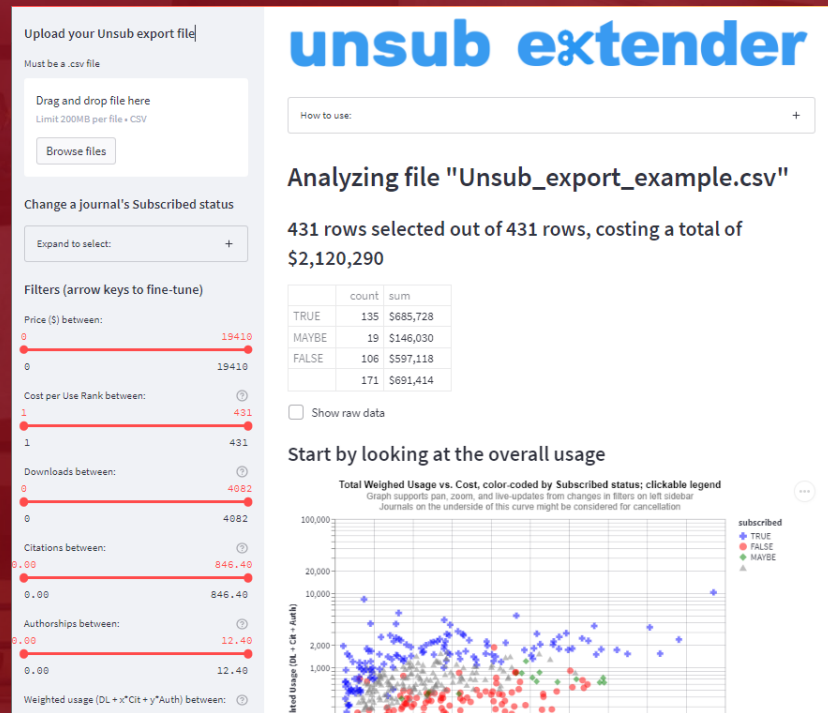
Data export .csv file

- Lots of great, detailed data but what to do with it all?
- Finally figured out what is useful to graph, but how to extend it further and show *other* libraries what worked for us?

1	issn_l_pre	issn_l	title	Notes	issns	subject	era_subje	subscribed	is_society	usage	subscripti	ill_cost	cpu	cpu_rank
2	issn:0012-	0012-1606	Journlia		['0012-160	Life Scienc	['11', 'Me	FALSE	TRUE	722	8273	11.7917	264.8511	426
3	issn:0005-	0005-2736	Nexus American		['1879-264	Life Scienc	['09', 'Eng	FALSE	FALSE	497	7265	24.5665	145.0899	425
4	issn:1532-	1532-0464	Become Veterinary		['1532-0480',	'1532-0	['11', 'Me	FALSE	FALSE	85	1568	9.5859	128.4337	424
5	issn:2210-	2210-6502	Wish Industrial		['2210-650	Computer	['08', 'Inf	FALSE	FALSE	20	1064	10.5817	76.15641	423
6	issn:0020-	0020-7683	Encourage Methods		['0020-768	Engineerir	['09', 'Eng	FALSE	FALSE	901	12068	86.7503	74.23318	422
7	issn:0304-	0304-3975	Research Materialia		['0304-397	Computer	['01', 'Ma	FALSE	FALSE	361	4798	20.0787	71.51956	421
8	issn:0370-	0370-1573	Alpha Trends		['0370-157	Physics an	['01', 'Ma	FALSE	FALSE	638	9491	36.4061	70.1587	420
9	issn:0304-	0304-3932	Perception Science		['0304-393	Economics	['1401', 'E	FALSE	FALSE	216	3551	28.5793	55.74553	419
10	issn:0022-	0022-3115	Advance Environment		['1873-482	Engineerir	['0912', 'M	FALSE	FALSE	310	9771	101.2851	53.92529	418
11	issn:0277-	0277-5387	Butterfly Veterinary		['1873-371	Chemistry	['03', 'Che	FALSE	FALSE	272	11122	112.8809	51.81206	417
12	issn:0378-	0378-4274	Refine Total		['1879-316	Pharmaco	['05', 'Env	FALSE	FALSE	168	8151	76.5315	50.17775	416

unsub extender

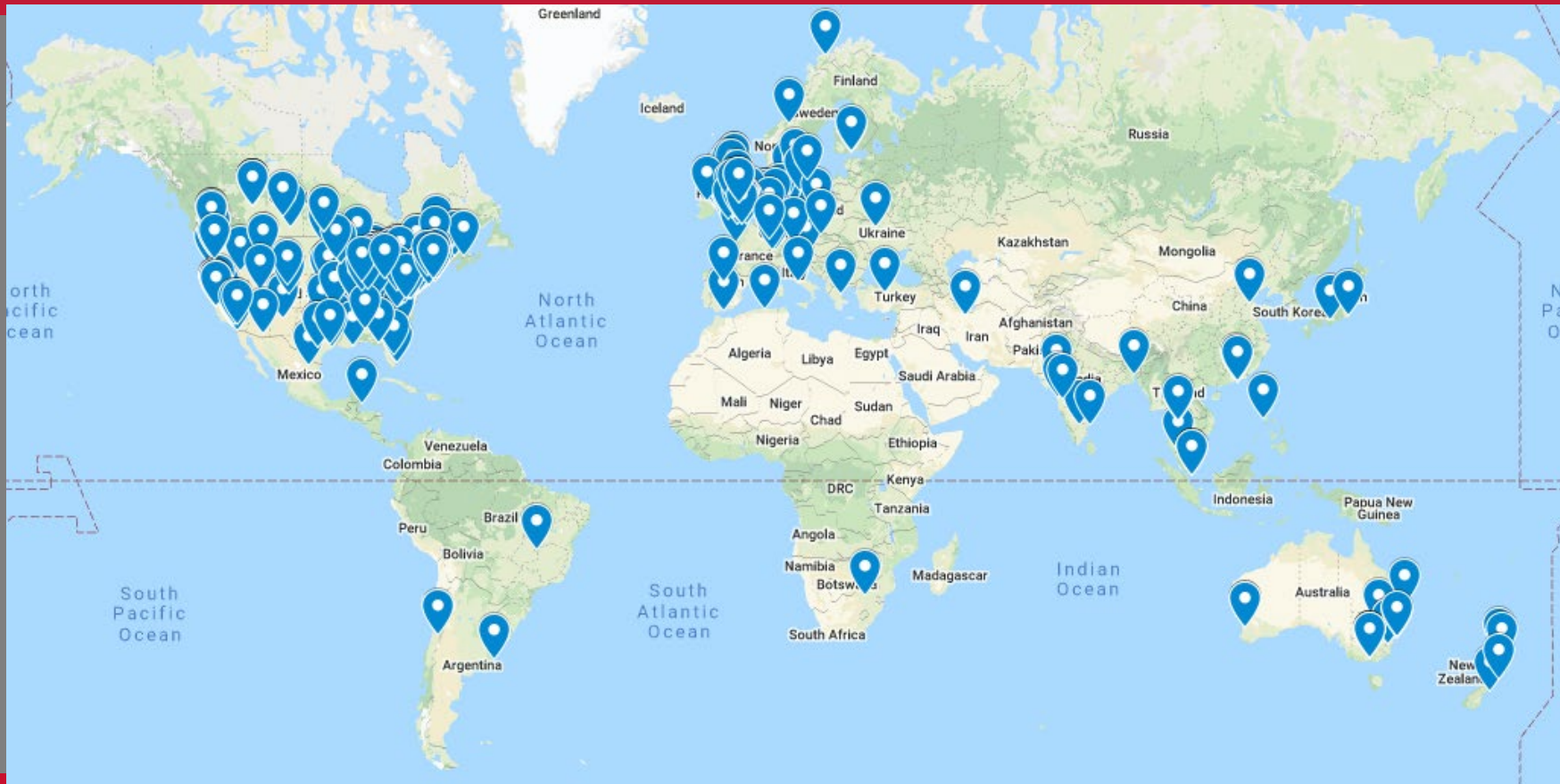
- Python script deployed as a web app that takes any Unsub export .csv file and automatically creates graphs and visualizations
- Interactive plots support zoom, pan, hover
- Filters on the left help narrow down obvious titles to Keep or Cancel
- Live at <https://unsubextender.lib.iastate.edu>



Live demo

- Filename and show raw data button
- Weighted usage vs. price (x2)
- Downloads, citations, authorships separately
- IF% graphs
- Subject areas
- Filters and summary table
- Changing Subscribed status
- Record of changes made and exporting

2000+ hits, 35 countries



Upload your Unsub export file

Must be a .csv file

Drag and drop file here

Limit 200MB per file • CSV

Browse files

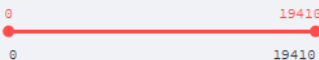
Change a journal's Subscribed status

Expand to select:

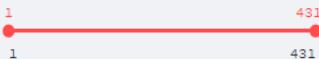
+

Filters (arrow keys to fine-tune)

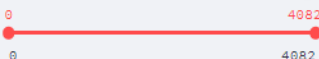
Price (\$) between:



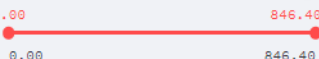
Cost per Use Rank between:



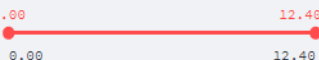
Downloads between:



Citations between:



Authorships between:



Weighted usage (DL + x*Cit + y*Auth) between:

unsub extender

How to use:

+

Analyzing file "Unsub_export_example.csv"

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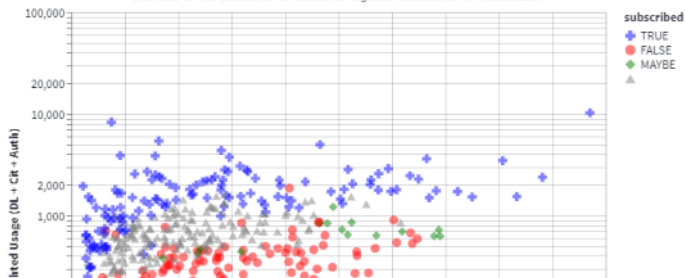
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Related Resources

- Piowar, H., Harris, J., and Schares, E. (2021, May). Unsub in real life: Using Unsub as part of serials decisions and negotiations. NASIG 2021 Conference, Virtual. <https://youtu.be/7xuJsVivlXU>.
- Schares, E. (2021, November). Innovation Session: Unsub Extender. Charleston Library Conference, Hybrid: Charleston, SC and Virtual.
- Schares, E. (2021). Unsub Extender: a Python-based web application for visualizing Unsub data. arXiv, <https://arxiv.org/abs/2109.00468>.
- Schares, E. (2021). Unsub Extender. GitHub. https://github.com/eschares/unsub_extender
- Unsub knowledge base. <http://help.unsub.org/en/>

Python Libraries

- Streamlit
- Altair
- pandas