

The Annual Wikimania Update

Mark Graham September 18th, 2023



Team "Turn All References Blue" (TARB)





Stephen Balbach



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Jake Orlowitz



James Hare



Dr. Sawood Alam



Turn All References Blue



In the future nearly everything ever written or recorded, and all related resources, will be a click, gesture or a thought away.



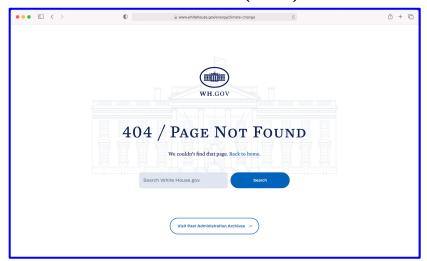
The goal of the "Turn All References Blue" project is to contribute to making that a reality, starting with Wikipedia.



Link Rot: When Good URLs go Bad



Live Web (404)



Archived Version



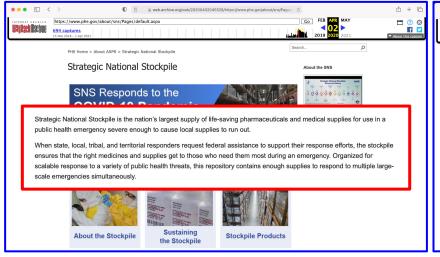


Content Drift: Change Happens



April 2, 2020

April 6, 2020







We get URLs cited in Wikipedia via the EventStreamAPI



Event Platform/EventStreams

< Event Platform

(Redirected from EventStreams)

EventStreams is a web service that exposes continuous streams of structured event data. It does so over HTTP using chunked transfer encoding of following the Server-Sent Events (SSE) protocol. EventStreams can be consumed directly via HTTP, but is more commonly used via a client library. ○

EventStreams provides access to arbitrary streams of data, including MediaWiki RecentChanges ☑. It replaced RCStream, and may in the future replace irc.wikimedia.org. EventStreams is backed by Apache Kafka ☑.

Note: Often 'SSE' and EventSource are used interchangeably. This document refers to SSE as the server-side protocol, and EventSource as the client-side interface.

Contents [hide] 1 When not to use EventStreams 2 Examples 2.1 JavaScript 2.2 Python 2.3 Command-line 3 API 3.1 Stream selection 3.2 Historical Consumption 3.3 Response Format 3.4 Filtering 4 Architecture 4.1 SSE vs. WebSockets/Socket.IO 4.2 KafkaSSE 4.3 Kafka 5 WMF Administration

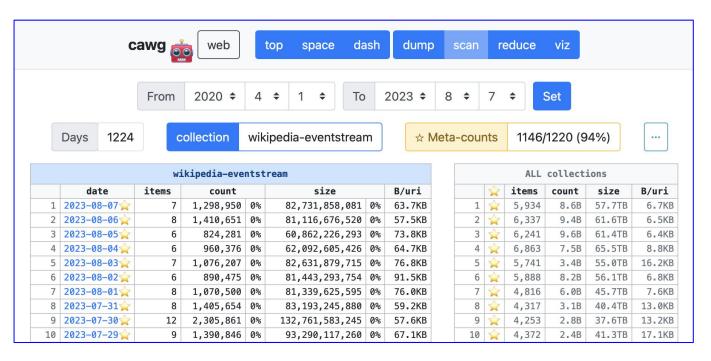






We Archive Millions of Wikipedia Sourced URLs/day







How 1 seed URL can result in 31,259 Archived URLs



1 seed page



338 embeds





30,746 outlink embeds

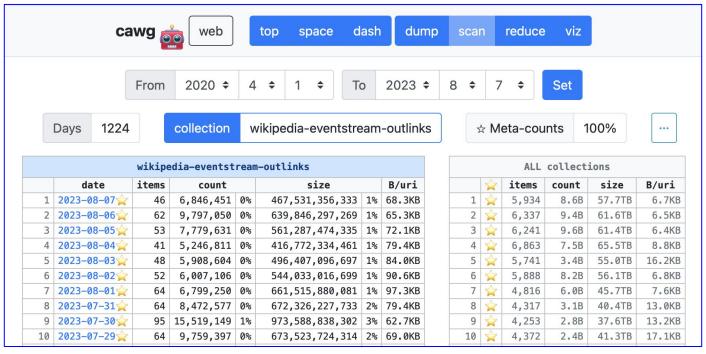


Results from cnn.com on June 17, 2021



We also Archive Millions of Outlinked URLs

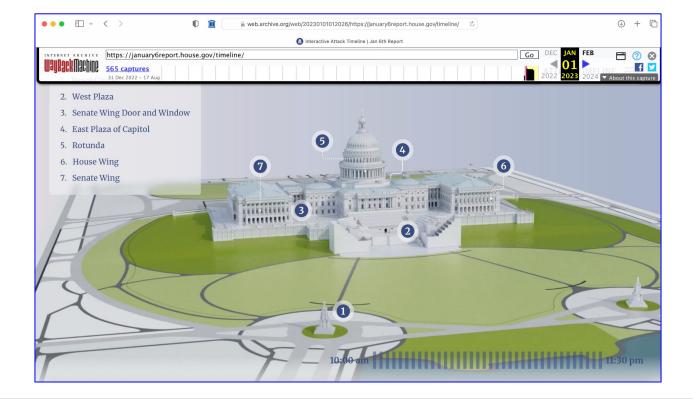






An Interactive Page from the 117th Congress

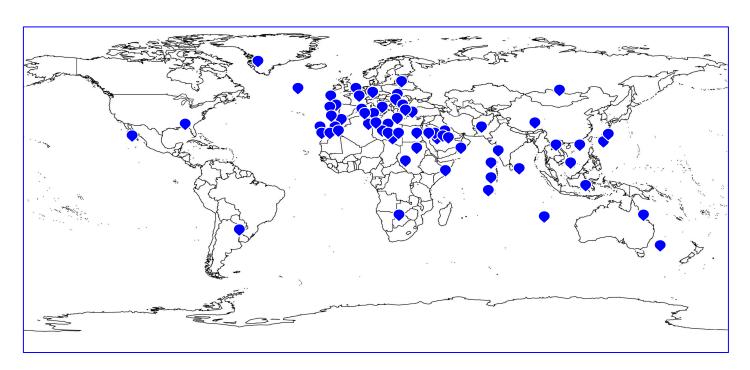






IABot has run on **215** out of **334** Wikipedia language editions, and **58** additional wikis







Progress Fixing Broken Links



- Fixed more than 19
 million formerly broken
 links across 305 Wikipedia
 languages
- More than 8 million fixed in the last 2 years alone!





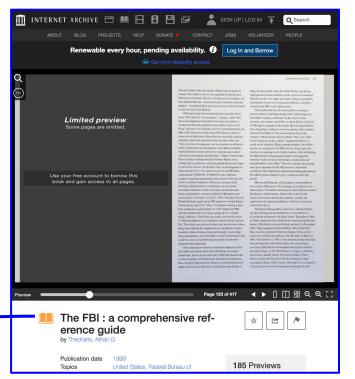
Turning Book <u>Citations</u> Blue





First Half Century of Brown v. Board of Education . W. W. Norton & Co.

Justice. June 2000. Retrieved July 11, 2011





Better World Books



The Internet Archive creates a wish list of books based on Wikipedia citations







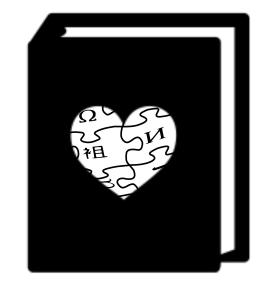


Progress Adding Links to Books



More than 1.8 million links to books from archive.org across have been added to ~60 Wikipedia language editions

(1 million added by our software and 800,000 added by Wikipedia Editors)





Progress Adding Links to Papers



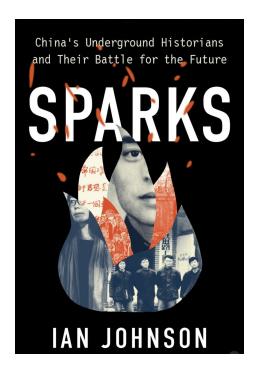
Our software has added more than **141,000** links to academic papers and articles across ~**60 Wikipedia language** editions





85 Wayback Machine Links in this book



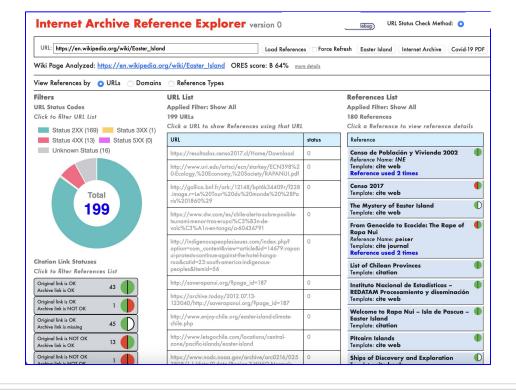


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In the Lab: Reference Explorer







Next Up: Finding/Fixing "Soft 404s"



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Publishers Lawsuit (blog.archive.org)



