

# WikiLink Coloring

CS 6235: Real-Time Systems  
Project Proposal  
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# Project Overview

- Wikipedia articles have hyperlinks to other Wikipedia articles
- Problem:
  - Not all articles are created equal
- Solution
  - Highlight article hyperlinks based on quality

# Motivation

- Provide glanceable information about Wiki hyperlink quality
  - Google Chrome extension
- Why?
  - I use Wikipedia a lot, this would be useful for me

# Article Quality

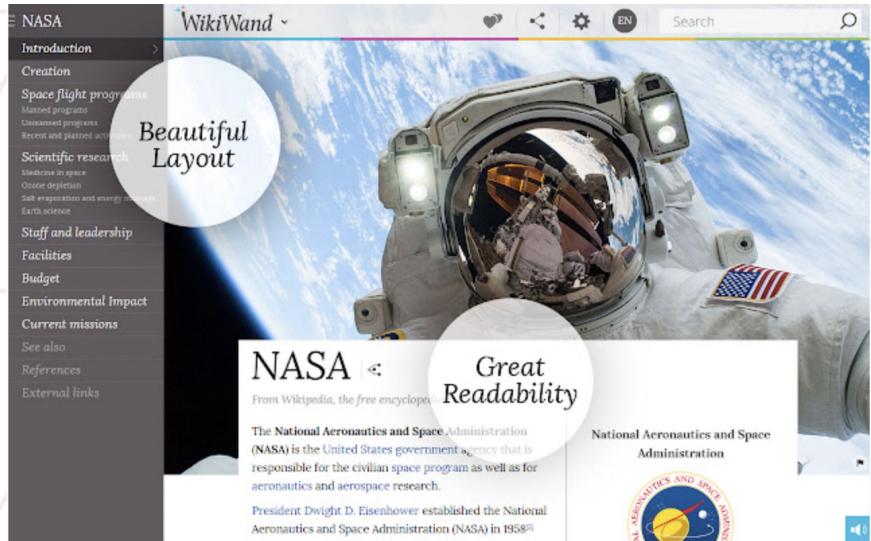
- Article Views
- Article Redirects
- Article Similarity

# System Architecture

- Add style information to anchor tags with Wikipedia article URLs
- All processing done locally, as opposed to on a remote server

# Related Work

- Chrome extensions to “beautify” Wikipedia or have a in-place article preview



Once mouse is placed on the Wiki link for more than 3 seconds, tool tip opens up the 'Summary' tab with text from corresponding Wiki article

## List of Smithsonian museums

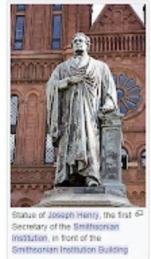
From Wikipedia, the free encyclopedia

The **Smithsonian museums** are the most widely visible part of the United States' **Smithsonian Institution** and consist of nineteen museums and galleries as well as the **National Zoological Park**.<sup>[1]</sup> Seventeen of these collections are located in **Washington D.C.**, with eleven of those located on the **National Mall**. The remaining ones are in **New York City** and **Charlottesville, Virginia**. As of 2010, one museum, the **Arts and Industries Building**, is closed in preparation for a substantial renovation<sup>[1]</sup> and its newest museum building, the **National Museum of African American History and Culture**, is under construction.

The birth of the **Smithsonian Institution** is the second oldest of the Smithsonian museums on the National Mall in Washington, D.C. Initially named the **National Museum**, it was built to provide the Smithsonian with its first proper facility for public display of its growing collections. The building, designed by architects **Adolf Class** and **Paul Schultze**, opened in 1855, hosting an inaugural ball for President **James A. Garfield**. It was designated a **National Historic Landmark** in 1961.



willied to the United States in which it accepted. In 1939, moved the **Treasury**. After an art gallery, a library, a was a learning institution Secretary **Spencer Fullerton** was worth of displays from the re construction of the National to provide the Smithsonian



Statue of Joseph Henry, the first Secretary of the Smithsonian Institution, in front of the Smithsonian Institution Building

to expand the institution by eight museums and increased admission from 10.5 million people a year.<sup>[2]</sup> This period included the greatest and most rapid growth for the Smithsonian, and it continued until Ripley's resignation in 1964.<sup>[3]</sup> Since the completion of the Arts and Industries Building, the Smithsonian has expanded to twenty separate museums with roughly 137 million objects in their collections, including works of art, natural specimens, and cultural artifacts.<sup>[4]</sup> The Smithsonian museums are visited by over 25 million people every year.<sup>[5]</sup>

## Museums

Eleven of the 19 Smithsonian Institution museums and galleries are at the **National Mall** in Washington D.C., the open-area **National Park** in Washington, D.C running between the **Lincoln Memorial** and the **United States Capitol**, with the **Washington Monument** providing a division slightly west of the center.<sup>[1]</sup> Five other Smithsonian museums and the **National Zoo** are located elsewhere in Washington. Two more Smithsonian museums are located in New York City and one is located in **Charlottesville, Virginia**.

# Foreseeable Challenges

- Learning Javascript

# Work to be done

- Write web scrapers for article redirects and views
- Write web scraper and algorithm for article similarity
- Performance analysis and optimization
- Design an approachable user interface



# Evaluation and Deliverables

- Sub-second latency
- Seamless visual and performance experience
- Deliver:
  - Source code
  - Developer journal
  - User guide
  - Performance graphs