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| --- | --- | --- | --- |
| **Top 10 pages by PageRank** | | | |
| Document ID | Page Rank | Document ID Info | In-link Count |
| WT21-B37-76 | 0.00267941 | experimental home page of The Economist | 2568 |
| WT21-B37-75 | 0.001525917 | The Economist : Copyright Notice | 1704 |
| WT25-B39-116 | 0.001469494 | Security Assurance Requirements | 169 |
| WT23-B21-53 | 0.001372322 | Web Development Team Page | 198 |
| WT24-B40-171 | 0.001245072 | The Evening News Online Archive | 270 |
| WT23-B39-340 | 0.00124049 | Financial reports on companies | 274 |
| WT23-B37-134 | 0.001205214 | Health Department of WA Disclaimer | 208 |
| WT08-B18-400 | 0.001143541 | General Disclaimer | 1011 |
| WT13-B06-284 | 0.001124782 | Web Page Team information | 454 |
| WT24-B26-46 | 0.001085046 | Milton's Homepage | 187 |

Top 10 doc id by page rank and in-links

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DOC ID** | **Page Rank** |  | **DOC ID** | **In-links** |
| WT21-B37-76 | 0.00267941 | WT21-B37-76 | 2568 |
| WT21-B37-75 | 0.001525917 | WT18-B29-37 | 2269 |
| WT25-B39-116 | 0.001469494 | WT01-B18-225 | 2260 |
| WT23-B21-53 | 0.001372322 | WT23-B27-29 | 1940 |
| WT24-B40-171 | 0.001245072 | WT21-B37-75 | 1704 |
| WT23-B39-340 | 0.00124049 | WT27-B34-57 | 1257 |
| WT23-B37-134 | 0.001205214 | WT27-B32-30 | 1255 |
| WT08-B18-400 | 0.001143541 | WT08-B19-222 | 1041 |
| WT13-B06-284 | 0.001124782 | WT08-B18-400 | 1011 |
| WT24-B26-46 | 0.001085046 | WT10-B36-88 | 946 |

**Analysis:**

WT21-B37-76- is the home page for ‘The Economist’ and has highest in-link count, page rank.

* The count of in-link is highest for this document ID.so, the number of visitors to the document increases as well.
* As it’s a home page, it is first entry to navigate the page and more click count.
* Also, The Economist page holds limited selection of articles on international news, business that are likely to be returned in search results for a search query on recent news.

The above factors increase the popularity of the page contributing to a higher page rank for the page

WT21-B37-75- is copyright section of the website

* It is likely to be contained in footer section of all the pages including home page WT21-B37-76 that has highest number of in-link s. This increases the probability of user navigating to this page and importance of WT21-B37-75
* As all pages for site have a copyright section included in the footer, this increases its in link count. The same can be verified from the statistics reported above i.e in link count is 1708
* This document ID has less probability of being returned in user search query for news.

WT25-B39-116- Security Assurance Requirements

* It has few in-link s compared to other document ID. However, one of the in-link for WT25-B39-116 is WT25-B38-117 that seems to be index of a book. An index of book is the most frequent visited page to traverse the book pages i.e. more important. This increases the importance of WT25-B39-116 and contributes in higher ranking.
* Also, it seems to be research related page and could occur in user query for research in similar domain via the WT25-B38-117 (index of book has more probability to return in search results).

WT23-B21-53- Web Development Team Page

* This document ID contains information related to webmaster and could be used by visitors in contacting the team in case of any issues. Thus, it can be one of the frequently visited page, contributing to high page rank.
* Each and every document ID will have copyright section that might contain the link to the web development team’s page. Hence, WT23-B21-53 have a higher page rank even though it doesn’t have information related to international news, business

WT24-B40-171-The Evening News Online Archive

* It is the evening news on every weeknight. As it contains top stories every weekend, it is likely to have in-links from various web-pages, articles. So, it is important page for visitors and has high probability to be returned in user common search queries on news.

WT23-B39-340- Financial reports on companies

* It contains financial information on various companies that would be useful for visitors buying or investing in these companies stocks. This makes the document as important and likely to return in user search queries on financial information.

WT23-B37-134- Health Department of WA Disclaimer

* It holds disclaimer for all the materials provided by the Health Department of WA. As, most of the articles and academic material have a disclaimer , they would have a link to this disclaimer which explains the number of in links for this doc ID and marks this doc ID as important.

WT08-B18-400- General Disclaimer

* It has high page-rank and a high number of in-link s as most of the articles/pages will have a general disclaimer. Thus, almost all the articles in the given set of documents have a link to this document.

WT13-B06-284 Web Page Team information

* It contains information about director, manager, programmers of web development team. There are 454 in-link s for this document ID. The higher page rank can be because of importance of the page for visitors that want to contact the team for business /suggestions.

WT24-B26-46- Milton's Homepage

* It is a homepage of Dr. Milton who is a Lecturer in the University of Michigan Department of Psychiatry and assistant director of the UM Psychiatric Informatics Program. He is also first graduate of the program. As he was the first graduate of the program, it is likely to be referred in articles/ pages related to department of psychiatry. The same was verified by checking in-link s for this document ID that were related to department of psychiatry.

This document ID has high probability to be returned in user search queries related to department of Psychiatry.

**Conclusion:**

Pages with high PageRank considers not only the in-links but the quality of links to that page. It uses the probability of user landing to that page as one of the important factor to determine page ranks

e.g. if there are 10 in-links to a page A that are most frequently visited by a user and if there are 20 in-links to a page B that are visited less than in-links of A, then Page A will have higher page rank as the 10 in-links for page A are more important for users.

So, pages with higher page rank can be more relevant for a user search compared to pages with more in-links.