# Iterative PageRank Algorithm:

## For 1 Loop:

|  |  |
| --- | --- |
| Page | PageRank |
| A | 0.24930555555555556 |
| E | 0.2138888888888889 |
| C | 0.14305555555555555 |
| F | 0.14305555555555555 |
| D | 0.13125 |
| B | 0.11944444444444445 |

## For 10 Loop:

|  |  |
| --- | --- |
| Page | PageRank |
| A | 0.27522858796296296 |
| E | 0.17960358796296297 |
| C | 0.14890914351851853 |
| F | 0.14890914351851853 |
| B | 0.1361689814814815 |
| D | 0.11118055555555556 |

## For 100 Loop:

|  |  |
| --- | --- |
| Page | PageRank |
| A | 0.2521279082949524 |
| E | 0.18704623580229018 |
| C | 0.1513061506319007 |
| F | 0.1513061506319007 |
| B | 0.1393055926315782 |
| D | 0.11890796200737797 |

# PageRank Algorithm:

List the perplexity values you obtain in each round until convergence.

## Perplexity Values:

Loop -> 1 : perplexity is 183810.9999981843

Loop -> 2 : perplexity is 80012.16015428555

Loop -> 3 : perplexity is 86873.85751796492

Loop -> 4 : perplexity is 72745.83228512671

Loop -> 5 : perplexity is 75797.26897887843

Loop -> 6 : perplexity is 69517.15369996273

Loop -> 7 : perplexity is 71873.66527498241

Loop -> 8 : perplexity is 68400.1608000563

Loop -> 9 : perplexity is 70038.42468202581

Loop -> 10 : perplexity is 68007.4902790949

Loop -> 11 : perplexity is 69122.73181309349

Loop -> 12 : perplexity is 67830.86087583912

Loop -> 13 : perplexity is 68640.19743594083

Loop -> 14 : perplexity is 67760.80216858524

Loop -> 15 : perplexity is 68338.40923422482

Loop -> 16 : perplexity is 67751.95228742044

Loop -> 17 : perplexity is 68150.14886924467

Loop -> 18 : perplexity is 67751.25291834121

Loop -> 19 : perplexity is 68036.28052264039

Loop -> 20 : perplexity is 67756.98468401057

Loop -> 21 : perplexity is 67960.35448315648

Loop -> 22 : perplexity is 67767.21407854951

Loop -> 23 : perplexity is 67909.8728765797

Loop -> 24 : perplexity is 67775.75486677639

Loop -> 25 : perplexity is 67877.23733151011

Loop -> 26 : perplexity is 67782.67249046324

Loop -> 27 : perplexity is 67855.1255438794

Loop -> 28 : perplexity is 67788.71278195051

Loop -> 29 : perplexity is 67839.9928497812

Loop -> 30 : perplexity is 67793.38465740308

Loop -> 31 : perplexity is 67829.85091866384

Loop -> 32 : perplexity is 67796.87177349966

Loop -> 33 : perplexity is 67822.9143174722

Loop -> 34 : perplexity is 67799.58222758207

Loop -> 35 : perplexity is 67818.09692940264

Loop -> 36 : perplexity is 67801.61111881566

Loop -> 37 : perplexity is 67814.79910074975

Loop -> 38 : perplexity is 67803.09650802863

Loop -> 39 : perplexity is 67812.51366831505

Loop -> 40 : perplexity is 67804.2043841766

Loop -> 41 : perplexity is 67810.91870136267

Loop -> 42 : perplexity is 67805.01829059678

Loop -> 43 : perplexity is 67809.8087648088

Loop -> 44 : perplexity is 67805.61160699604

Loop -> 45 : perplexity is 67809.03363765146

Loop -> 46 : perplexity is 67806.04476551857

Loop -> 47 : perplexity is 67808.48874108512

Loop -> 48 : perplexity is 67806.36052778273

Loop -> 49 : perplexity is 67808.10677009147

Loop -> 50 : perplexity is 67806.58958946516

Loop -> 51 : perplexity is 67807.8380222915

Loop -> 52 : perplexity is 67806.7560360114

Loop -> 53 : perplexity is 67807.64866751966

Loop -> 54 : perplexity is 67806.87646625547

Loop -> 55 : perplexity is 67807.51505671012

Loop -> 56 : perplexity is 67806.9637083132

Loop -> 57 : perplexity is 67807.42054745823

Loop -> 58 : perplexity is 67807.02676617562

Loop -> 59 : perplexity is 67807.3537084588

Loop -> 60 : perplexity is 67807.07226731302

## Top 50 pages as sorted by PageRank:

|  |  |  |
| --- | --- | --- |
| Sr. | Page | PageRank |
| 1 | WT21-B37-76 | 0.00269447247817602000 |
| 2 | WT21-B37-75 | 0.00153317802120908000 |
| 3 | WT25-B39-116 | 0.00146850520528129000 |
| 4 | WT23-B21-53 | 0.00137352938886563000 |
| 5 | WT24-B26-10 | 0.00127618585075973000 |
| 6 | WT24-B40-171 | 0.00124527625764365000 |
| 7 | WT23-B39-340 | 0.00124288780488606000 |
| 8 | WT23-B37-134 | 0.00120542448190058000 |
| 9 | WT08-B18-400 | 0.00114477682696013000 |
| 10 | WT13-B06-284 | 0.00113655433822722000 |
| 11 | WT13-B06-273 | 0.00105492121009990000 |
| 12 | WT01-B18-225 | 0.00095538156010625400 |
| 13 | WT04-B27-720 | 0.00094096005371030000 |
| 14 | WT24-B26-46 | 0.00086223474838549200 |
| 15 | WT23-B19-156 | 0.00082506912196220400 |
| 16 | WT04-B30-12 | 0.00081662231496644300 |
| 17 | WT25-B15-307 | 0.00079722324621131900 |
| 18 | WT07-B18-256 | 0.00077502049547001300 |
| 19 | WT24-B40-167 | 0.00070761739925760600 |
| 20 | WT14-B03-220 | 0.00069887305750932000 |
| 21 | WT18-B31-240 | 0.00069422275122880900 |
| 22 | WT14-B03-227 | 0.00068530000708308100 |
| 23 | WT04-B40-202 | 0.00068467804863380300 |
| 24 | WT08-B19-222 | 0.00064953233158428500 |
| 25 | WT23-B20-363 | 0.00063963307601832600 |
| 26 | WT27-B28-203 | 0.00062707927082371700 |
| 27 | WT13-B39-295 | 0.00062153644842381000 |
| 28 | WT13-B15-160 | 0.00061985836328841100 |
| 29 | WT12-B30-56 | 0.00060245668101405800 |
| 30 | WT10-B02-288 | 0.00058444990443814700 |
| 31 | WT14-B36-337 | 0.00056170868017475800 |
| 32 | WT21-B40-37 | 0.00054718752267932100 |
| 33 | WT21-B35-155 | 0.00054569810461513500 |
| 34 | WT23-B01-40 | 0.00054084993505109300 |
| 35 | WT08-B08-60 | 0.00053612024527824100 |
| 36 | WT22-B38-403 | 0.00053357766692804200 |
| 37 | WT13-B39-321 | 0.00053289240981706800 |
| 38 | WT04-B22-268 | 0.00053285776095918100 |
| 39 | WT14-B02-400 | 0.00053279118447523600 |
| 40 | WT18-B14-66 | 0.00052955716185826400 |
| 41 | WT06-B14-69 | 0.00051916333161595400 |
| 42 | WT23-B38-120 | 0.00051868365207958400 |
| 43 | WT06-B35-151 | 0.00051692734011493400 |
| 44 | WT10-B33-300 | 0.00051677380170934500 |
| 45 | WT14-B36-323 | 0.00051586320553342700 |
| 46 | WT14-B36-334 | 0.00051586320553342700 |
| 47 | WT14-B36-336 | 0.00051586320553342700 |
| 48 | WT14-B36-335 | 0.00051586320553342700 |
| 49 | WT06-B35-161 | 0.00051502137955463000 |
| 50 | WT27-B20-494 | 0.00051447816392456500 |

## Top 50 pages by in-link count:

|  |  |  |
| --- | --- | --- |
| Sr. | Page | InLinks |
| 1 | WT21-B37-76 | 2568 |
| 2 | WT21-B37-75 | 1704 |
| 3 | WT01-B18-225 | 1137 |
| 4 | WT08-B19-222 | 1041 |
| 5 | WT08-B18-400 | 990 |
| 6 | WT21-B40-447 | 779 |
| 7 | WT27-B34-57 | 630 |
| 8 | WT27-B32-30 | 628 |
| 9 | WT25-B15-307 | 605 |
| 10 | WT27-B28-203 | 589 |
| 11 | WT18-B40-82 | 576 |
| 12 | WT21-B37-71 | 560 |
| 13 | WT13-B15-160 | 484 |
| 14 | WT23-B30-88 | 477 |
| 15 | WT27-B28-177 | 461 |
| 16 | WT13-B06-284 | 454 |
| 17 | WT13-B06-273 | 452 |
| 18 | WT13-B39-295 | 443 |
| 19 | WT14-B36-337 | 417 |
| 20 | WT10-B33-300 | 406 |
| 21 | WT23-B23-51 | 400 |
| 22 | WT23-B27-29 | 388 |
| 23 | WT23-B30-105 | 379 |
| 24 | WT14-B36-334 | 368 |
| 25 | WT14-B36-336 | 368 |
| 26 | WT14-B36-323 | 368 |
| 27 | WT14-B36-335 | 368 |
| 28 | WT23-B30-89 | 367 |
| 29 | WT23-B19-156 | 364 |
| 30 | WT12-B40-248 | 357 |
| 31 | WT17-B34-509 | 356 |
| 32 | WT17-B34-501 | 356 |
| 33 | WT17-B34-507 | 356 |
| 34 | WT17-B34-505 | 356 |
| 35 | WT17-B34-506 | 356 |
| 36 | WT17-B34-498 | 356 |
| 37 | WT17-B34-500 | 356 |
| 38 | WT17-B34-504 | 356 |
| 39 | WT17-B34-503 | 356 |
| 40 | WT17-B34-502 | 356 |
| 41 | WT17-B34-508 | 356 |
| 42 | WT17-B34-499 | 356 |
| 43 | WT12-B40-235 | 355 |
| 44 | WT12-B40-241 | 342 |
| 45 | WT12-B40-254 | 334 |
| 46 | WT04-B40-202 | 322 |
| 47 | WT24-B26-2 | 320 |
| 48 | WT04-B40-238 | 311 |
| 49 | WT04-B30-256 | 301 |
| 50 | WT13-B16-451 | 291 |

|  |  |  |
| --- | --- | --- |
| Sr. | Page | InLinks |
| 1 | WT21-B37-76 | 2568 |
| 2 | WT21-B37-75 | 1704 |
| 3 | WT01-B18-225 | 1137 |
| 4 | WT08-B19-222 | 1041 |
| 5 | WT08-B18-400 | 990 |
| 6 | WT21-B40-447 | 779 |
| 7 | WT27-B34-57 | 630 |
| 8 | WT27-B32-30 | 628 |
| 9 | WT25-B15-307 | 605 |
| 10 | WT27-B28-203 | 589 |

 Top 10 pages by PageRank Top 10 by in-link count

|  |  |  |
| --- | --- | --- |
| Sr. | Page | PageRank |
| 1 | WT21-B37-76 | 0.0026944724781760 |
| 2 | WT21-B37-75 | 0.0015331780212091 |
| 3 | WT25-B39-116 | 0.0014685052052813 |
| 4 | WT23-B21-53 | 0.0013735293888656 |
| 5 | WT24-B26-10 | 0.0012761858507597 |
| 6 | WT24-B40-171 | 0.0012452762576437 |
| 7 | WT23-B39-340 | 0.0012428878048861 |
| 8 | WT23-B37-134 | 0.0012054244819006 |
| 9 | WT08-B18-400 | 0.0011447768269601 |
| 10 | WT13-B06-284 | 0.0011365543382272 |