

## Com S 435 PA3 Report

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### Page Rank:

1. When  $\epsilon = 0.01, \beta = 0.85$ , the iteration is 2.  
When  $\epsilon = 0.001, \beta = 0.85$ , the iteration is 4.
2. When  $\epsilon = 0.01, \beta = 0.25$ , the iteration is 1.  
When  $\epsilon = 0.001, \beta = 0.25$ , the iteration is 2.

### Top 10 page rank of wikiSportsGraph.txt:

/wiki/Major_professional_sports_leagues_in_the_United_States_and_Canada	0.004085230845401305
/wiki/Team_sport	0.0037983805624758654
/wiki/Major_League_Baseball	0.003054692479196532
/wiki/National_Basketball_Association	0.0021392213644249513
/wiki/National_Football_League	0.0020346572708121228
/wiki/National_Hockey_League	0.002002255638130626
/wiki/Major_League_Soccer	0.001982356515321687
/wiki/Canadian_Football_League	0.0019197463147935607
/wiki/Premier_League	0.0018727100425357922
/wiki/La_Liga	0.0018230528583674183

### Inverted Index:

Query with "baseball":

fileName	TPScore	VSScore	Relevance Score
1999_in_baseball.txt	0	0.05722496507009125	0.0228899860280365
1990_in_baseball.txt	0	0.05552550197665473	0.022210200790661893
List_of_baseball_stadiums_in_South_Korea.txt	0	0.06686779738306835	0.02674711895322734
1993_in_baseball.txt	0	0.055455638336780154	0.02218225533471206

1998_in_baseball.txt	0	0.056775008101 60786	0.022710003240 643147
1996_in_baseball.txt	0	0.056258166671 79783	0.022503266668 719133
List_of_Major_League_Baseball_spring_training_ballparks.txt	0	0.062864736799 05355	0.025145894719 62142
1995_in_baseball.txt	0	0.056159015091 49565	0.022463606036 598263
1997_in_baseball.txt	0	0.056223306885 35855	0.022489322754 14342
List_of_Chicago_White_Sox_team_records.txt	0	0.055817166179 08784	0.022326866471 635138

Query with “basketball game”:

File names	TPScore	VSScore	Relevance Score
Jeff_Cox.txt	0.0588235294 11764705	0.104001798 35669075	0.076894836 98973512
Karl_J._Lawrence.txt	0.0588235294 11764705	0.132314970 10718588	0.088220105 68993317
Irv_Noren.txt	0.0588235294 11764705	0.115902447 99104077	0.081655096 84347513
National_sport.txt	0.0588235294 11764705	0.108918838 81108679	0.078861653 17149355
Lynn_St._John.txt	0.0588235294 11764705	0.216630861 57702338	0.121946462 27786818
Leslie_Mann_(athlete).txt	0.0588235294 11764705	0.113171757 76939425	0.080562820 75481652
Sports_Reference.txt	0.0588235294 11764705	0.107156151 96253317	0.078156578 43207209
Basketball_in_the_United_States.txt	0.0588235294 11764705	0.144229964 91388523	0.092986103 61261292
Jeff_Munn.txt	0.0588235294 11764705	0.126782896 40016543	0.086007276 207125
Major_professional_sports_teams_of_the_United_States_and_Canada.txt	0.0588235294 11764705	0.122950818 41766793	0.084474445 014126

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Query with “champion of baseball”:

File names	TPScore	VSScore	Relevance Score
2000_in_baseball.txt	0.05882352941 1764705	0.16319623634 316408	0.10057261218 432445
2010_in_baseball.txt	0.05882352941 1764705	0.15542533129 81346	0.09746425016 631266
1987_Major_League_Baseball_season.txt	0.05882352941 1764705	0.45955900142 155964	0.21911771821 56827
2002_in_baseball.txt	0.05882352941 1764705	0.16242139682 351595	0.10026267637 64652
1961_Pittsburgh_Pirates_season.txt	0.05882352941 1764705	0.20046521629 667197	0.11548020416 572762
List_of_Major_League_Baseball_players_from_Canada.txt	0.05882352941 1764705	0.22699798577 554686	0.12609331195 727758
2009_in_baseball.txt	0.05882352941 1764705	0.15609222245 595353	0.09773100662 944023
1968%E2%80%9369_Cuban_National_Series.txt	0.05882352941 1764705	0.18315609617 464673	0.10855655611 691752
2006_in_baseball.txt	0.05882352941 1764705	0.16420867820 549145	0.10097758892 92554
1885_World_Series.txt	0.05882352941 1764705	0.23680899537 854008	0.13001771579 847488

Query with “price of baseball ticket”:

File names	TPScore	VSScore	Relevance Score
Tuck_Stainback.txt	0.0588235294117 64705	0.112068132504 21906	0.080121370648 74644
Tiger_Town.txt	0.0588235294117 64705	0.096820615131 13926	0.074022363699 51454

Frederick_Landis.txt	0.0588235294117 64705	0.084693839607 95102	0.069171653490 23924
Bryan_Price.txt	0.0588235294117 64705	0.139911375704 75748	0.091258667928 96181
Jim_Price_(baseball_manager).txt	0.0588235294117 64705	0.124501700653 08036	0.085094797908 29097
Rub%C3%A9n_G%C3%B3mez_(baseball).txt	0.0588235294117 64705	0.082588295221 08596	0.068329435735 49322
Jim_Price_(catcher).txt	0.0588235294117 64705	0.138240508255 20662	0.090590320949 14148
David_Price_(baseball).txt	0.0588235294117 64705	0.099463086726 89169	0.075079352337 8155
Detroit_Tigers_Radio_Network.txt	0.0588235294117 64705	0.107192662237 22188	0.078171182541 94758
Lenny_Levy.txt	0.0588235294117 64705	0.087652016381 00435	0.070354924199 46057

Query with “playoff season of baseball”:

File names	TPScore	VSScore	Relevance Score
1915_in_baseball.txt	0.0588235294117 64705	0.2123921963189 9198	0.1202509961746 5562
1881_Major_League_Baseball_season.txt	0.0588235294117 64705	0.2216539940056 807	0.1239557152493 311
1883_Major_League_Baseball_season.txt	0.0588235294117 64705	0.2301115351087 6178	0.1273387316905 6353
1948_Major_League_Baseball_season.txt	0.0588235294117 64705	0.2346475442311 089	0.1291531353395 024
1883_in_baseball.txt	0.0588235294117 64705	0.2301115351087 6178	0.1273387316905 6353
1880_in_baseball.txt	0.0588235294117 64705	0.2534627090836 627	0.1366792012805 239

1878_in_baseball.txt	0.0588235294117 64705	0.1904365968457 4668	0.1114687563853 575
1906_in_baseball.txt	0.0588235294117 64705	0.2436881704155 424	0.1327693858132 758
1881_in_baseball.txt	0.0588235294117 64705	0.2216539940056 807	0.1239557152493 311
1880_Major_League_Baseball_ season.txt	0.0588235294117 64705	0.2534627090836 627	0.1366792012805 239