Page Rank

Matrix

+ daddyVector: vector<vector<double>>
+ tolerance: double

+ <<Create>> Matrix()
+ <<Create>> Matrix(int)
+ <<Create>> Matrix(int, int)
+ <<Create>> Matrix(double *, int)
+ <<Create>> Matrix(int, double)
+ <<Create>> Matrix(int, int, double)
+ <<Delete>> ~Matrix()
+ getSumOfMatrixColumn(Matrix) : double
+ printMatrix() : void
+ set_value(int, int, double) : void
+ get_value(int, int) : double
+ get_size() : int
+ clear() : void
+ getColoumnIfAllZeroes(Matrix) : int
+ getImportanceMatrix() : Matrix
+ scaleRank() : void
+ makeMToPercentage : void
+ formatPrint() : void
+ mySwap(matrix, matrix) : void

+ operator++() : Matrix
+ operator--() : Matrix
+ operator++(int) : Matrix
+ operator--(int) : Matrix
+ operator=(Matrix) : Matrix
+ operator+=(Matrix) : Matrix
+ operator-=(Matrix) : Matrix
+ operator*=(Matrix) : Matrix

Friends
+ operator<<(ostream, Matrix) : ostream
+ operator==(Matrix, Matrix) : bool
+ operator!=(Matrix, Matrix) : bool
+ operator+(Matrix, Matrix) : Matrix
+ operator-(Matrix, Matrix) : Matrix
+ operator*(Matrix, Matrix) : Matrix
+ operator*(double, Matrix) : Matrix

main

Sets up the matrix connectivity equation, and fires it off to PageRank.

<-- - - Use - - - -

Use

PageRank

+ p : double
+ q : double
+ emergencyLimit : int
+ emergencyFlag : false

+ <<Create>> PageRank()
+ getMatrixFromFile(string) : Matrix
+ markovProcess(Matrix, Matrix) : void
+ getP() : double
+ getQ() : double
+ getEmergencyFlag() : bool
+ fileName() : string

Use