**SearchBase.py**

This abstract base class interfaces with the xgoogle library (by Peteris Krumins, found at <http://www.catonmat.net/blog/python-library-for-google-search/>).

*Methods:*

search(self, query, rpp):

@param query: string of keyword(s) on which to perform a Google search

@param rpp: number of desired results per page to retrieve (recommended: 100)

@return list of Google search results

Abstract method of SearchBase. Must be implemented in subclasses. This method automatically restricts search results to the RPI website.

**SportsSearch.py**

This class is a sample subclass of SearchBase.py, to serve as a basic example of how to extend this and implement for the purposes of this assignment.

*Methods:*

search(self, query, rpp):

@param query: string of keyword(s) on which to perform a Google search

@param rpp: number of desired results per page to retrieve (recommended: 100)

@return list of Google search results

Extends the abstract method of SearchBase. Performs the Google search by invoking SearchBase.search(), and prints the results

printResults(self):

Prints the list of Google search results, including the site title, description, and URL.

initDictionary(self):

Using the specified text file of keywords (keywords.txt), this method creates a dictionary to be used in rating the search results. The key values are the topic-specific keywords. The values are the order of these keywords in the file. It is assumed that the keywords are listed with the more important/valuable words at the bottom of the list.

reorder(self):

Calls to initialize the keyword dictionary, then scans the titles and descriptions of the Google search results. The value of each search result is increased by adding the mapped keyword value for each instance of keyword found. A tuple of the result and its value is added to a list, which is then reordered to place more valuable results at the top. The results are then printed with their value rank.

cmpfun(a,b):

This comparison method is used to sort the list of search result tuples by rank value, with the greatest values appearing first

@param a, b: tuples to be compared

@return -1, 0, or 1, based on whether a [1] > b[1]

See the Python Documentation and xgoogle library website for more information on subclasses and using this library.

Example Implementation

>>> test = SportsSearch()

>>> test.search("team", 25)

Rensselaer Polytechnic Institute (RPI) :: Architecture, Business ...

Academic institution guide to student programs, studies, research, and technological opportunities for undergraduate and graduate work at Troy, ...

http://rpi.edu/

Rensselaer Polytechnic Institute Equestrian Team

Sep 7, 2010 ... The Equestrian Team is made up of a group of equine athletes at Rensselaer. This club is a social organzation that provides many activities ...

http://equestrian.union.rpi.edu/

RPI Table Tennis Club . Team

RPI TT Team Fall 2007 with Coaches Jennifer, Coach Choi, and Joey Garcia ... RPI TT Team Spring 2005 with Coach Choi, Coach Jennifer Choi, Alan Ross, ...

http://tabletennis.union.rpi.edu/team.html

Two Katrina team members explore the key levee breach in New ...

File Format: PDF/Adobe Acrobat - Quick View

http://www.eng.rpi.edu/magazine/img/sp06/pdf/Sp06\_SoeNews\_Katrina-1.pdf

RPI: News & Events - Undergraduate and Graduate Student Team From ...

Apr 12, 2010 ... A team of students from Rensselaer Polytechnic Institute and the Denmark Technical University (DTU) has advanced to the semifinals of the ...

http://news.rpi.edu/update.do?artcenterkey=2710

Design Team | Design Works | Programs | Lighting Research Center

Design Team. As part of the LRC, DesignWorks has access to a multitude of resources. We have experts in lighting design, vision science and technology, ...

http://www.lrc.rpi.edu/programs/designWorks/designTeam.asp

Data-gov Wiki Team - Data-gov Wiki

May 26, 2010 ... Retrieved from "http://data-gov.tw.rpi.edu/wiki/Data-gov\_Wiki\_Team". Facts about Data-gov Wiki TeamRDF feed ...

http://data-gov.tw.rpi.edu/wiki/Data-gov\_Wiki\_Team

RPI Hockey :: What's New

Join the RPI Sports Listserv! Discuss the team and get press releases and other news. Sign up now! Subscribe to this page with RSS ...

http://www.rpi.edu/~markhn/hockey/

Lally Senior Sydney Crump Part of OroClean Team--Semi-finalists in ...

A team of students from Rensselaer and Denmark Technical University (DTU) has made it to the semi-finals of the 2010 Dell Social Innovation Competition.

http://lallyschool.rpi.edu/Members/nashj2/news-items/oroclean-dell-sic/

RPI Public Safety: Barh and Rahp Area Community Policing Team

I am a member of the Sports Challenge Team and a five-time RPI Billiards Champion. ... I joined the Public Safety Team in early 1996 following a twenty-year ...

http://www.rpi.edu/dept/public\_safety/community/bahr\_team.html

New York State Center for Future Energy Systems :: RPI ...

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http://www.rpi.edu/cfes/why-cfes/managementteam.html

Dr. Ajayan's Carbon Nanomaterials Research Group | Our Team

About Us | Our Team | Publications | Contact | Synergy. Prof. Ajayan has recently accepted a position at Rice University, Houston, Texas. ...

http://www.rpi.edu/locker/38/001238/people.html

RPI Public Safety: Freshman Residence Area Community Policing Team

I'm a member of the Public Safety Sports Challenge Team, and I enjoy the people at Rensselaer. My objective is to make every contact with students, faculty, ...

http://www.rpi.edu/dept/public\_safety/community/freshman\_team.html

RPI: News & Events - A Meeting of the Minds: Rensselaer Student ...

Mar 20, 2009 ... Today, a team of Rensselaer students is among several collegiate teams from around the country that will showcase their innovative ...

http://news.rpi.edu/update.do?artcenterkey=2546

Tech Team - School of Humanities, Arts, and Social Sciences

The Tech Team is a working team that is comprised of all of the technical staff in the School of Humanities and Social Sciences. The Tech Team is managed by ...

http://helpdesk.hss.rpi.edu/pl/tech-team

RPI Public Safety: Married Student Housing "Wyck" Area Community ...

I'm a regular on the Public Safety Sports Challenge Team and a recipient of the David Baum Community Service Award. I enjoy writing and am a published ...

http://www.rpi.edu/dept/public\_safety/community/married\_team.html

Top teams

10, Czech National Team, 970, 2175607, 730468028, Czech Republic, None ... 20, TeAm AnandTech, 106, 1214025, 312775663, International, None ...

http://milkyway.cs.rpi.edu/milkyway/top\_teams.php

Lally Professor Aparna Gupta Part of Research Team Receiving $318K ...

Gupta's research collaboration with Professor Koushik Kar in the Department of Electrical, Computer and Systems Engineering received one of 19 ARRA grants ...receiving-318k-nsf-grant-through-american-recovery-and-reinvest...

http://lallyschool.rpi.edu/Members/nashj2/news-items/lally-professor-aparna-gupta-part-of-research-team-receiving-318k-nsf-grant-through-american-recovery-and-reinvestment-act-arra/

RPI Public Safety: Quad, North and E-Halls Community Policing Team

I certainly enjoy interacting with the community and am proud to be a part of the Public Safety Team! E-mail: keenal@rpi.edu ...

http://www.rpi.edu/dept/public\_safety/community/quad\_team.html

RPI: News & Events - Rensselaer Geophysicist and Team Rush to ...

Mar 18, 2010 ... A team of geophysicists led by Rensselaer Professor Steven Roecker is in Chile to study the scope and strength of aftershocks that continue ...

http://news.rpi.edu/update.do?artcenterkey=2696

RPI Rugby Homepage

If you aren't on the team, it is not to late to join! RPI Rugby is a club sport, a great way to compete againist other college teams without the ...

http://rugby.union.rpi.edu/

RPI Solar Car Racing Team

The RPI Solar Car Racing Team is designing a completely solar-powered car for entry in the North American Solar Challenge and the cross-Australia World ...

http://solarracing.union.rpi.edu/

Sustainability Charrette April 17 – 18, 2009 Team: The Roots

File Format: Microsoft Powerpoint - View as HTML

http://sustainability.rpi.edu/charrette/ppt/Roots.ppt

RPI Wrestling

Despite losing starting 184 pounder and national qualifier Chris Stabler to a rib injury, two wrestlers leaving the team late in January and two others ...

http://wrestling.union.rpi.edu/

RPI Ballroom Dance | Ballroom Team | ballroom.union.rpi.edu

The Ballroom Team is composed of dedicated dancers of all skill levels. Most members compete in regional collegiate DanceSport competitions and strive to ...

http://ballroom.union.rpi.edu/team

>>> test.reorder()

RPI Table Tennis Club . Team RANK = 53

RPI TT Team Fall 2007 with Coaches Jennifer, Coach Choi, and Joey Garcia ... RPI TT Team Spring 2005 with Coach Choi, Coach Jennifer Choi, Alan Ross, ...

RPI Rugby Homepage RANK = 50

If you aren't on the team, it is not to late to join! RPI Rugby is a club sport, a great way to compete againist other college teams without the ...

RPI Hockey :: What's New RANK = 35

Join the RPI Sports Listserv! Discuss the team and get press releases and other news. Sign up now! Subscribe to this page with RSS ...

Rensselaer Polytechnic Institute Equestrian Team RANK = 34

Sep 7, 2010 ... The Equestrian Team is made up of a group of equine athletes at Rensselaer. This club is a social organzation that provides many activities ...

RPI Public Safety: Barh and Rahp Area Community Policing Team RANK = 10

I am a member of the Sports Challenge Team and a five-time RPI Billiards Champion. ... I joined the Public Safety Team in early 1996 following a twenty-year ...

RPI Public Safety: Freshman Residence Area Community Policing Team RANK = 8

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I'm a regular on the Public Safety Sports Challenge Team and a recipient of the David Baum Community Service Award. I enjoy writing and am a published ...

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RPI: News & Events - Undergraduate and Graduate Student Team From ... RANK = 2

Apr 12, 2010 ... A team of students from Rensselaer Polytechnic Institute and the Denmark Technical University (DTU) has advanced to the semifinals of the ...

New York State Center for Future Energy Systems :: RPI ... RANK = 2

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Dr. Ajayan's Carbon Nanomaterials Research Group | Our Team RANK = 2

About Us | Our Team | Publications | Contact | Synergy. Prof. Ajayan has recently accepted a position at Rice University, Houston, Texas. ...

RPI: News & Events - Rensselaer Geophysicist and Team Rush to ... RANK = 2

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RPI Solar Car Racing Team RANK = 2

The RPI Solar Car Racing Team is designing a completely solar-powered car for entry in the North American Solar Challenge and the cross-Australia World ...

RPI Ballroom Dance | Ballroom Team | ballroom.union.rpi.edu RANK = 2

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File Format: PDF/Adobe Acrobat - Quick View

Design Team | Design Works | Programs | Lighting Research Center RANK = 1

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May 26, 2010 ... Retrieved from "http://data-gov.tw.rpi.edu/wiki/Data-gov\_Wiki\_Team". Facts about Data-gov Wiki TeamRDF feed ...

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