

"Deep Web" is a term coined by <u>BrightPlanet.com</u>, a company that offers corporate and institutional clients a way to gett at more and better information than any Web browser can deliver.

The problem with Web browsers is that they can catalog only those Internet sites that have static, unchanging URLs. However, a lot of data available online is in databases that only generate a temporary Web page in answer to a specific query. The deep Web is a 500-timesbigger data repository than the area of the Internet that is targeted by typical search-engine queries, BrightPlanet president Thane Paulsen told NewsFactor.

In the Deep End

The deep Web includes phone directories and "a lot of government data that's available online," said Joseph Hellerstein, a computer science professor at the University of California at Berkeley who has mined the deep Web on his own in a number of research projects.

A <u>Google</u> Search will not go into every database on the Web and enter search terms into appropriate fields to retrieve relevant data. BrightPlanet's Deep Query Manager will.

http://www.newsfactor.com/perl/story/18625.html

ADVERTISEMENT



NEW Microsoft Reports Whopping \$1.53 Billion Profit Full Story

NEW AOL'S Pittman Steps Down Amid Ad Sales Revelations Full Story

NEW Wireless Tech Stocks To Watch **Full Story**

NEW! Will Alternative Web Browsers Ever Unseat Microsoft? D Full Story

NEW! Yahoo! Security Measure Alters E-Mail Text D Full Story

NEW Fujitsu Unveils New Disk Drives, Server Processors Full Story

NEW! Apple's .Mac Challenges Microsoft's .NET D Full Story

NEW! Study: Web Security Spending To Surge D Full Story

NEW! Shutting Microsoft Out of the Wireless World D Full Story

NEW! Jobs: Apple's 'Jaguar' Set To Pounce "The trend is toward more content going into databases rather than onto the surface Web," said Paulsen. The



"surface Web" is what the company calls the millions of static-URL sites that will show up in response to a standard search-emogime query.

Adds CEO Bill Shelander, "Content is exploding on the Internet in every direction, but the biggest [growth] is in databases."

Bringing Data Home

So, just as the Nexis-Lexis service allows users to scour a wide variety of publications and news sites at once, BrightPlanet offers a tool that allows users to automatically search the shallow Web -- it even uses popular search engines -- while also getting into relevant databases that offer public access, but would be too time-consuming for a user to visit individually ... assuming the user could even find them.

To date, the customers who subscribe to the company's ASP-model services -- for about US\$120 per month, per seat -- include corporations, government agencies and research institutions.

Giving Data a Purpose

One principal use of deep-Web mining, Paulsen and Shelander say, has been in brand management and gathering compretitiive imformmatiiom. A cair manufacturer, for example, might want to aggregate and retrieve all the information available about its luxury sedan. It might also want all the data it could great about its competitor's luxury sedans.

Another use: Comprehensive, deep research. Corporate research and development departments need a lot of information in planning products that have multiyear development cycles. Industry analysts require the best information they can get to put together complete pictures of their fields.

Medical researchers are another group Paulsen said has found a need for this kind of deep research. Say a researcher is looking into "chronic daily headache syndrome." Deep research of various medical databases, in addition to a well-filtered sweep of the surface Web, might yield hundreds of highly valuable search results. A search of a regular search engine, on the other hand, could produce thousands of links -- many of them useless to a researcher.

How You Look at It

What may prove really valuable about deep-Web mining is the ability to interpret various individual pieces of data that might most otherwise be of much use. At UC Berkeley, Hellerstein has worked at mining the deep Web in collaboration with social science researchers trying to find new ways to draw answers from the immeessing collections off disparate data available online.

"The first demo we did for presentation was during the last presidential campaign, when the big story was campaign finance;" Ittellenstite in toold Nkews/Facttor. "We looked at data from the Federal Election Commission on domors to Bussh amd Gome, and commelated it with data on home

purchases from <u>Yahoo!</u> (Nasdaq: YHOO) **2**, and crime data and other demographics."

The researchers were able to take the donors' addresses and get a picture of who was giving money to each campaign. They found -- true, it is not much of a surprise -- that Bush was getting most of his money from people in very affluent, low-crime neighborhoods, while Gore was drawing funds from a wider range of donors.

Practical and Personal

Currently, Hellerstein is working with Hal Varian, dean of UC Berkeley's School of Information Management and Systems, on research into worker migratory patterns.

"We're always trying to look for leading indicators or forecasts of different economic variables," said Varian. The question at hand is how long someone will look for a job in a region that has suffered an economic hit before leaving the area.

Taking Texas in the wake of the Enron scandal as a model case, Varian, Hellerstein and others plan to create a picture of how workers weather economic storms. They intend to scour online resume postings and job-oriented databases, as well as standard economic data and a range of diverse factors -- freeway traffic patterns, for example.

So, corporations and industry analysts can study their markets. Researchers can try to better

Full Story

NEW When Will Broadband Rule the Market? Full Story

NEW U.S.: States Might Be Hindering E-Commerce Full Story

NEW! iPod for Windows: Apple's Trojan Horse D Full Story

NEW Intel Misses Estimates, Plans 4,000 Job Cuts Full Story

NEW! Will XML Kill HTML?

NEW! Thursday's CyberCrime and Security Report D Full Story

NEW! U.S., Business Agree on Internet Security Standards D Full Story

NEW! Microsoft Changes MSN Browser Strategy Full Story

NEW! AOL Time Warner: Who's the Boss?

▷ <u>Full Story</u>

NEW! Florida Politician Guilty of Internet Auction Scam Full Story

NEW! The Changing Face of Online Stock Trading

NEW! Apple Results Lackluster But Profitable Full Story

NEW! Amazon Jumps on Web Services Bandwagon Full Story

OPTIONS D See more news

D Get news by e-mail

▷ <u>Visit open forums</u>

understand how aspects of how society works. All good news. But according to some, there is a downside: Better mining of the data hidden below the surface of the Web means better ways to uncover more personal information reaction about an individual.

Stay Tuned for Part 2: Plumbing the Personal Data Depths

Talkback: <u>Click here to add your comment about this story...</u>

See Related Stories

IBM Data Mining Research Tackles Privacy Dilemma (31-May-02) Journey to the Internet's Unknown Regions (24-Apr-02) Text-Mining Technology Sorts Data the Smart Way (13-Mar-02) Interface Innovation: The Future of Information Access (19-Dec-01) Feds To Draw 'Map' of Internet (07-Dec-01)

Sponsored Links

- Free Guide: Bulletproof Your Network. Click here.
- Click here for FREE WHITE PAPER: eService Best Practices.
- Click here for a FREE Infrastructure development white paper.
- Click to improve employee efficiency, increase customer satisfaction.
- Reach Thousands of Internet Pros Everyday with NewsFactor Newsletters!
- If you know anything at all about I.T. you better see this!
- Free Windows and Linux software downloads. Click here.

NEW! Software Updates brought to you in partnership with DaveCentral, part of OSDN - the Open Source Development Network.



- 1. GuildFTPd 0.999.5 in FTP Servers
- 2. AdvaCrypt Suite 2 2.59ds in File Utilities Encryption Tools
- 3. Enhanced HTML 2002 4.4.55 in Web Authoring Text Editors
- 4. SheerPower 4GL 3.0 in Database Programming
- 5. 602Pro PC SUITE 2001 In Office Applications Suites

Also, check out today's shareware review of Hacktrap at DaveCentral.

NewsFactor.com

Front Page I Special Reports I Worldwide Tech I E-Business I Monster Deals I Tech Stocks I Technology Trends | Opinion | CyberCrime | Culture | Editorial Corrections I

Other NewsFactor Network Sites

NewsFactor Portal I E-Commerce Times I TechNewsWorld I Linux Insider I Wireless <u>NewsFactor</u> osOpinion I TechExtreme I CRMDaily I CRM Buyer Magazine

FreeNewsFeed I Free Newsletters

Business Development I How To Contact Us I About NewsFactor Network How To Advertise I Article Reprint Information I

© 1998-2002 Triad Commerce Group, LLC. All rights reserved. See Terms of Use and Privacy notice.



- 1. MIDI Made Music Jukebox (215,751 hits) in Audio Players
- 2. <u>3D Custom Screensaver</u> (122,403 hits) in <u>System Utilities</u> <u>Misc. Utilities</u> 3. <u>Zero Popup</u> (115,821 hits) in <u>Web Surfing</u> <u>Browser Utilities</u>
- 4. Ultimate Boot Disk (104,970 hits) in System Utilities Misc. Utilities
- 5. Auto Mouse (80,876 hits) in Web Surfing Browser Utilities