



Needlebot's Conceptual Search Tool (Paragraph Search)

Example 2: User seeking documents related to the AIDS virus

Needlebot's Conceptual Search tool found 10/10 AIDS related hits even though the search paragraph did not contain the keywords: "AIDS", "HIV", "Human Immune Deficiency Syndrome" or "virus"

Database: **Reuters 1987**

Paragraph Searched: *A mysterious epidemic is causing increasing concern in the United States. It has claimed around 100 lives so far in the US and up to 90% of the victims are gay. Three studies show that the immune systems of victims are attacked, leaving them vulnerable to attack by germs which most people normally shrug off.*

1 - article id: 7335 - high rank: 1

Reuters Topics: NOTOPICS

STRONG POINT INC HAS IMMUNE SYSTEM FORMULA

IRVINE, Calif., March 19 -<Strong Point Inc> said its Pharmaceutical Technologies Inc unit has developed a formula for stimulating immune system function and repairing immune system damage, thereby protecting vulnerable body structures against Acquired Immune Deficiency Syndrome (AIDS). The company said while the product, called IMMUNOL-IM, is not a cure, treatment or prevention, it repairs, rebuilds and stimulates the immune system, enabling the body to protect itself and repair damage. Strong Point said it plans to begin studies in Europe within 45 days and to make IMMUNOL-IM available in the U.S. as soon as possible, pending appropriate government clearances. Reuter

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2 - article id: 15497 - high rank: 2

Reuters Topics: NOTOPICS

BIOSYSTEMS RESEARCH TESTS TECHNOLOGY FOR AIDS

CUPERTINO, Calif., April 9 -<Biosystems Research Inc> said its new technique for a treatment for Acquired Immune Deficiency Syndrome showed good results on subjects who were treated. Called biostimulation, the non-drug approach to the treatment of those with AIDS and AIDS related complex involves exposure to low-level magnetic and electrical stimulation in combination with phototherapy from the visible light spectrum, the company said. Biosystems said it tested its technique in two studies with eight subjects since January 1986, for periods of five to 60 weeks. It said the treatments have not produced any adverse effects in the subjects. Reuter

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3 - article id: 11992 - high rank: 3

Reuters Topics: NOTOPICS

HOWARD BAKER AIDE EXPECTED TO GET TOP JOB

WASHINGTON, April 1 -The White House is expected today to name Thomas Griscom, a longtime aide to chief of staff Howard Baker, as President Reagan's communications director. Officials said an announcement was expected to be made during Reagan's trip to Philadelphia where the president is to make a speech to a group of doctors on the deadly disease AIDS (Acquired Immune Deficiency Syndrome). Griscom, 37, was brought into the White House by former Senator Baker to help with the transition after Baker was named chief of staff following the resignation of Donald Regan in the wake of the Iran arms scandal. He will take the job vacated by Patrick Buchanan, a high-profile conservative, who served two years as communications director. Reuter

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4 - article id: 19736 - high rank: 4

Reuters Topics: NOTOPICS

NATIONAL PATENT <NPD> TO START AIDS DRUG TRIAL

NEW YORK, June 29, -National Patent Development Corp and Bar-Ilan University of Israel said that their joint venture corporation, Scientific Testing Inc, will begin a clinical trial in the U.S. of its immuno-augmenting compound, AS101, for the treatment of Acquired Immune Deficiency Syndrome (AIDS). The study will be conducted at the Institute of Immunological Disorders (MD Anderson Hospital, Houston, Tex) under the direction of Dr Peter Mensell, pursuant to an investigational new drug application filed with the Food and Drug Administration, the company said. The study, expected to begin in four to six weeks, is designed to test the effects of AS101 on about 30 AIDS patients, National Patent said. It added that AS101, a proprietary synthetic compound invented by Bar-Ilan University doctors, has shown immuno-augmenting, anti-viral and anti-tumor activity in preclinical animal testing, and immuno-augmenting activity in a limited number of AIDS patients in phase one foreign clinical tests. Reuter

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5 - article id: 18349 - high rank: 5

Reuters Topics: NOTOPICS

ALLERGY GETS GRANT TO DEVELOP INTERLEUKIN KIT

NEWPORT BEACH, Calif., June 2 -Allergy Immuno Technologies Inc said it received federal funding to develop a diagnostic kit for measuring Interleukin-2 and Interleukin-2 receptor. Interleukin is a naturally produced substance important in maintaining the body's immune system. Reuter

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Note: Needlebot's Conceptual Search tool (paragraph search tool) retrieved 10/10 AIDS related documents even though the search paragraph, (see page 10), does not contain keywords usually associated with the disease such as: “AIDS”, “HIV”, “Human Immunodeficiency Syndrome” or “virus”. Needlebot then displays these highly relevant hits at the top of the search result list for easy access by the user.

The above example demonstrates the power of Needlebot's conceptual search technology to allow the user to find highly relevant documents without having to waste time thinking about what the ideal keywords should be for that particular search, (as is usually the case with traditional keyword-based search engines).

Furthermore, with traditional keyword-based search tools, even when the user has provided the correct keywords, highly relevant documents that contain synonyms of these specific chosen keywords are often missed completely. The above example demonstrates that Needlebot's conceptual search technology does not suffer from this limitation.

It is worth noting that both Google and Yahoo fail to produce relevant results (AIDS related) when the exact same search phrase used in this example is cut and pasted into either of these search engines.



Needlebot's Conceptual Search Tool (Paragraph Search)

Example 3: User seeking documents related to the 1996 IRA Lisburn bombing

The top hits from Needlebot's Conceptual Search tool are highly relevant even though the search paragraph does not contain the keywords: IRA, Irish Republican Army or Sinn Fein

Database: **Reuters 1996**

Paragraph Searched: *Two loud explosions rang out near the British army's Northern Ireland headquarters at Lisburn near Belfast on Monday and police said there were reports of injuries. I believe there were injuries, a spokesman for the Royal Ulster Constabulary police said. Police said they were investigating the blast and it was not clear if it had been caused by a bomb. They said they had received no bomb warnings, which are usually given by the guerrilla groups fighting for and against British rule of the province. An army spokesman reported black smoke in the vicinity of the Lisburn base but had no immediate information on the cause and location of the blast. The Lisburn barracks houses a large part of Britain's 18,000-strong army presence in Northern Ireland. Last week police found a car bomb packed with explosives in Belfast. A breakaway Irish republican group fighting British rule claimed responsibility for planting the device, which failed to detonate*

1 - article id: 99274 - high rank: 1

Reuters Topics: GOVERNMENT/SOCIAL; WAR, CIVIL WAR

UK: Blast near British army base near Belfast.

BELFAST 1996-10-07Two explosions were heard near the British army's Northern Ireland headquarters at Lisburn near Belfast on Monday and police said there were reports of injuries. I believe there were injuries, a spokesman for the Royal Ulster Constabulary police said. Police said they were investigating the blast and it was not clear if it had been caused by a bomb. They said they had received no bomb warnings, which are usually given by the guerrilla groups fighting for and against British rule of the province. An army spokesman reported black smoke in the vicinity of the Lisburn base but had no immediate information on the cause and location of the blast. The Lisburn barracks houses a large part of Britain's 18,000-strong army presence in Northern Ireland. Last week police found a car bomb packed with explosives in Belfast. A breakaway Irish republican group fighting British rule claimed responsibility for planting the device, which failed to detonate.

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2 - article id: 99284 - high rank: 2

Reuters Topics: GOVERNMENT/SOCIAL; DEFENCE; WAR, CIVIL WAR

UK: Army says 20 soldiers hit in N.Ireland blast.

BELFAST 1996-10-07The British army said that 20 of its soldiers were wounded on Monday by a double car bomb at its Northern Ireland headquarters in Lisburn, south of Belfast. It said another 11 civilian workers were injured. It was the first authoritative breakdown of casualty figures.

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3 - article id: 99302 - high rank: 3

Reuters Topics: GOVERNMENT/SOCIAL; DOMESTIC POLITICS; WAR, CIVIL WAR

UK: Major calls bombs barbaric and unspeakable.

LONDON 1996-10-07British Prime Minister John Major said the bombers who struck a Northern Ireland army base on Monday were barbaric and unspeakable. I think what they have done is barbaric, he told BBC Television after the two bomb attacks that injured about 20 people in Lisburn, south of Belfast. To have placed a bomb without warning to kill or maim innocent men and women and then to place a second bomb where those people already injured and maimed might be caught as they sought medical attention, or to kill the people giving them medical attention, is just unspeakable, he added. No group has claimed responsibility for the blasts.

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4 - article id: 99325 - high rank: 4

Reuters Topics: GOVERNMENT/SOCIAL; WAR, CIVIL WAR

UK: Several hurt in blast at British N.Ireland base.

BELFAST 1996-10-07 Several people were injured when two suspected bombs exploded inside Britain's Northern Ireland army headquarters at Lisburn, near Belfast, on Monday. Police said the explosions occurred inside the perimeter of the British base and security sources said they believe the explosions were caused by bombs. Ambulances rushed to the scene and black smoke hung over the base, some 10 miles (16 km) south of Belfast, where a large proportion of the 18,000 British troops in Northern Ireland is based. Police said no bomb warning was given by any of the province's rival guerrilla groups. Northern Ireland has been largely immune from violence since rival guerrilla groups called ceasefires in 1994 but the Irish Republican Army (IRA) went back to war against British rule with attacks on British mainland targets in February.

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5 - article id: 83160 - high rank: 5

Reuters Topics: GOVERNMENT/SOCIAL; WAR, CIVIL WAR

UK: UK police charge four guerrilla suspects.

LONDON 1996-09-28 British police said on Saturday they were charging four men with conspiracy to cause an explosion under the country's anti-terrorism laws. The four men were arrested last Monday after raids in London that netted 10 tonnes of explosives. One man was shot dead by police during the raid and a sixth man has been released. Police said the men would appear before a magistrates court on Monday. They said Patrick Kelly, Brian McHugh, James Murphy and Michael Phillips have been charged with conspiring to cause an explosion likely to endanger life and possession of explosives. The haul of explosives, together with weapons and bomb-making equipment, was seen as a crushing blow to Irish Republican Army morale. It also ended speculation that the guerrillas were preparing to call a new ceasefire in their campaign against British rule of Northern Ireland.

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Note: The top four hits in the results list produced by **Needlebot's Conceptual Search tool** (paragraph search tool), are highly relevant documents related to the 1996 IRA bombing in Lisburn. The next few hits on the first page of the results list contained documents related to other 1996 IRA incidents including the 1996 London dockland bombing.

Note that the conceptual search paragraph used in this example, (see page 12), did not contain many of the keywords usually associated with these incidents such as: "IRA", "Irish Republican Army", "Protestant Loyalist gunmen", or "Sinn Fein".

The above example demonstrates the power of Needlebot's conceptual search technology to allow the user to find highly relevant documents without having to spend time thinking about what the ideal keywords should be for that particular search, (as is usually the case with traditional keyword-based search engines).