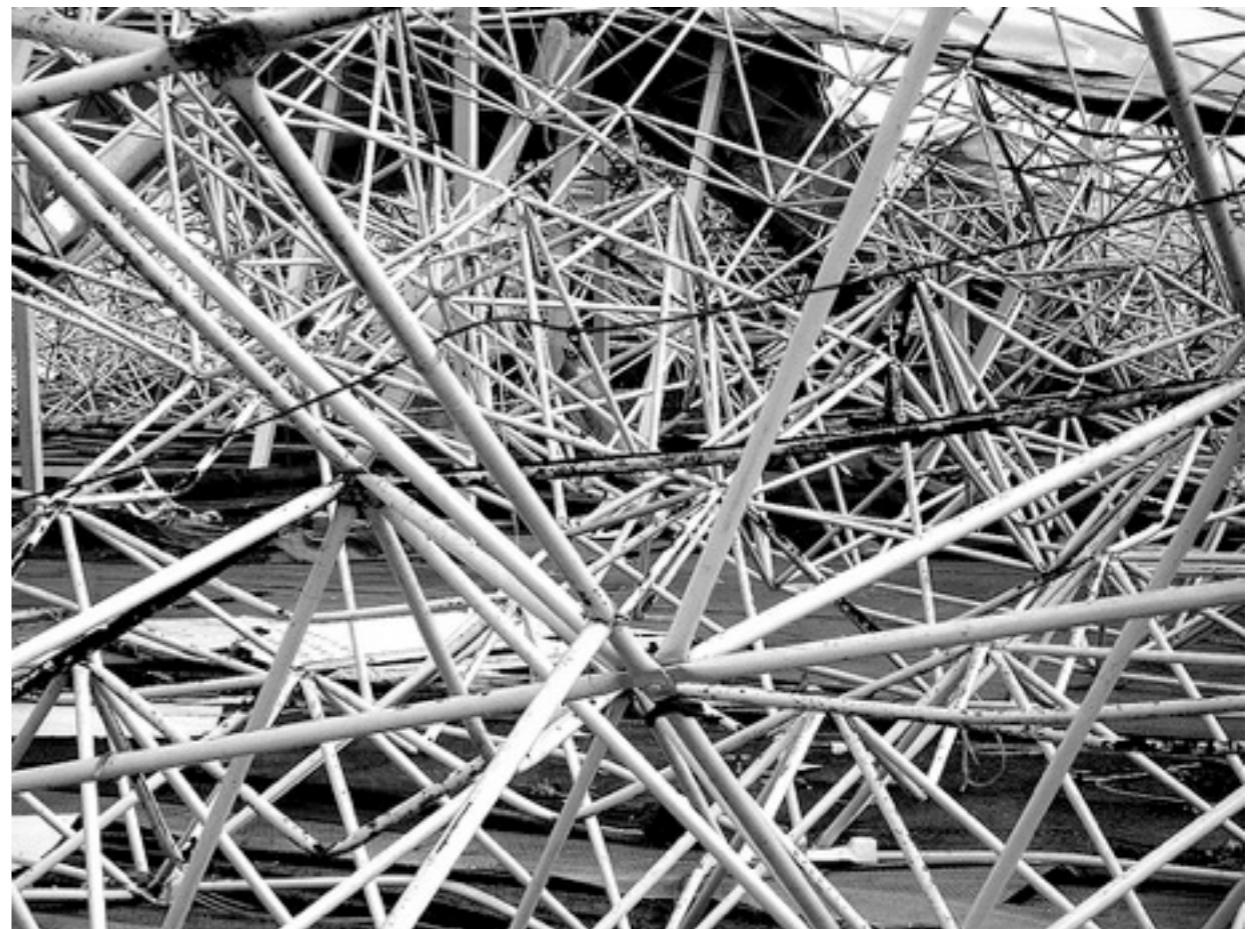


Interactive Information Retrieval

IR + people

Considering
people adds
a lot of
complexity



We must make fewer
assumptions

Today

- Overview of themes/ideas/projects in Interactive Information Retrieval
 - More of a survey than in-depth lesson
- Gain appreciation for subtleties and importance of user-based design

Overview

- Evaluation
 - IR vs. IIR
 - Metrics
- Presentation
- Interaction assistance
 - Relevance feedback
- Social search

TREC/Cranfield evaluation

- Create a *corpus*
 - e.g., news articles
- Create set of *topics*
- Rate documents according to *relevance to topic*

<topic>

<number>HARD-408</number>

<title>College Campus Racism</title>

<description>

In what form is racism currently experienced on college campuses?

</description>

<topic-narrative>

Many Americans, particularly white Americans, feel that racism is a thing of the past, no longer a problem given the legal changes which have made segregation illegal and generally improved conditions since the 1950s and 60s. However researchers, not to mention many "minorities" themselves, say that racism is simply different now than it once was, but still just as extant. What forms does racism take on today, particularly on college campuses? Incidents of overt racism are on topic. Discussion (academic and popular) of what constitutes racism and of how racism is different today are on topic.

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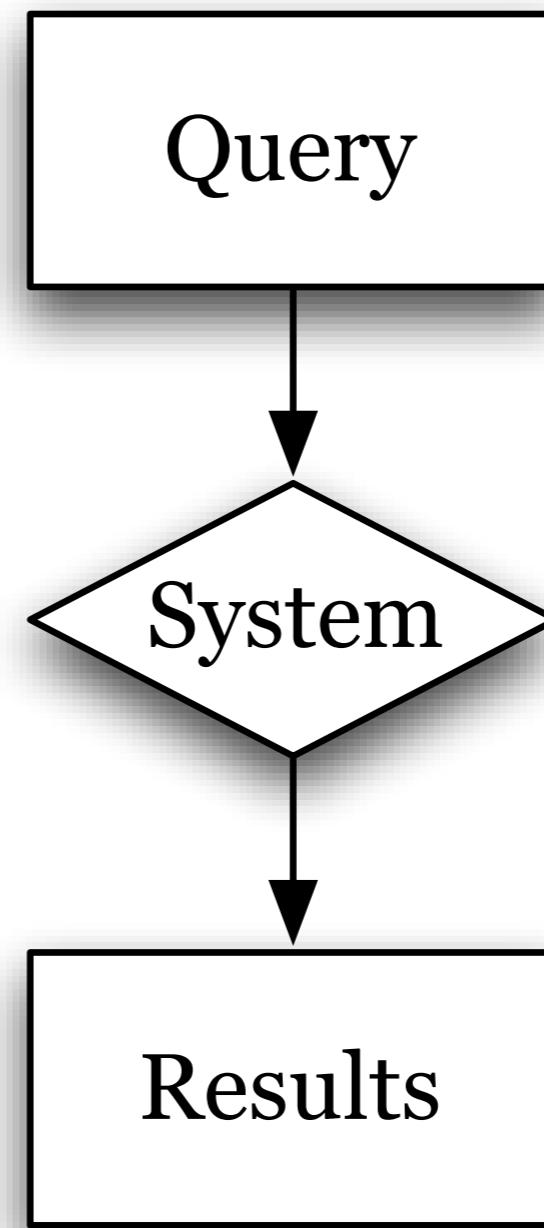
In what form is racism currently experienced on college campuses?

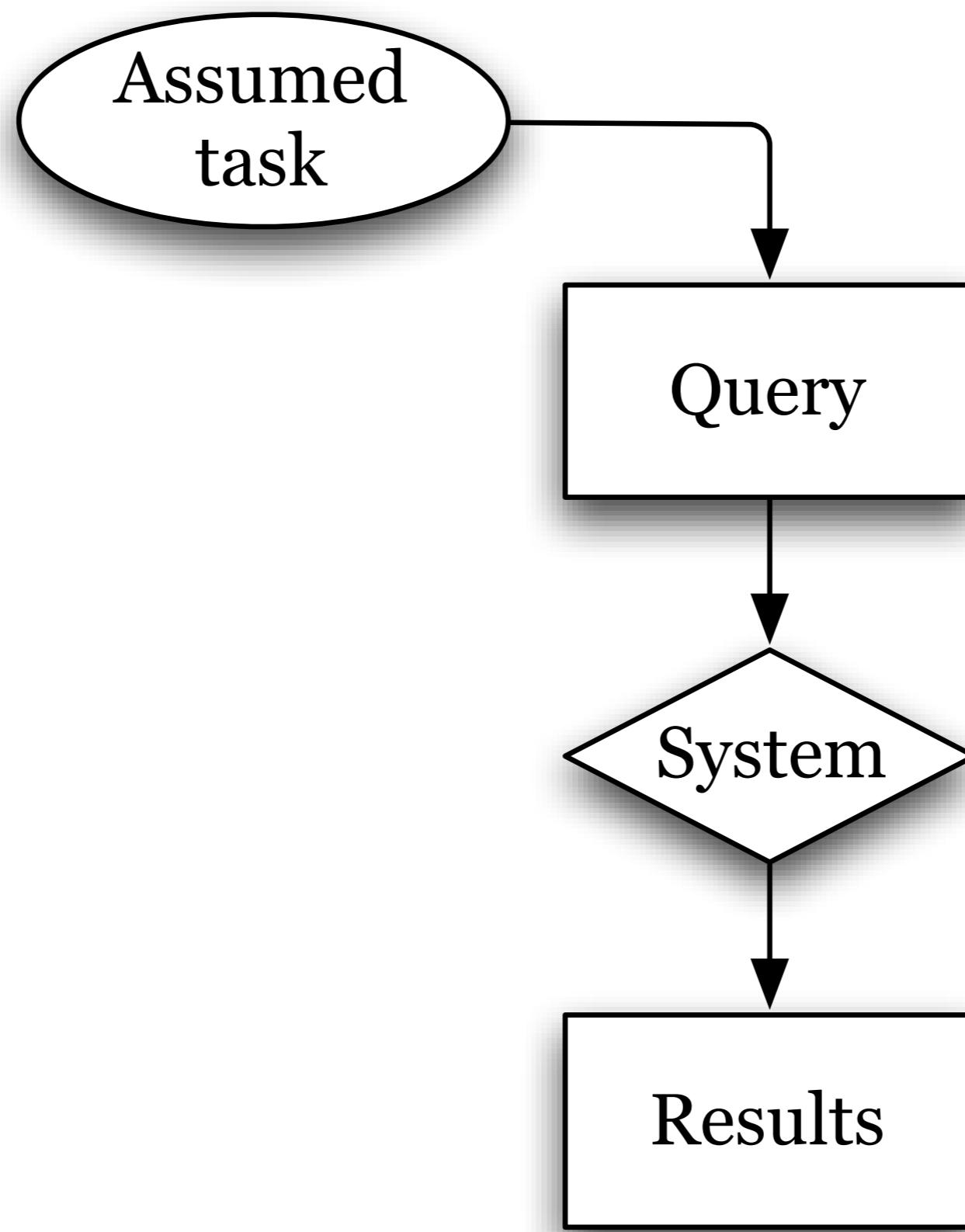
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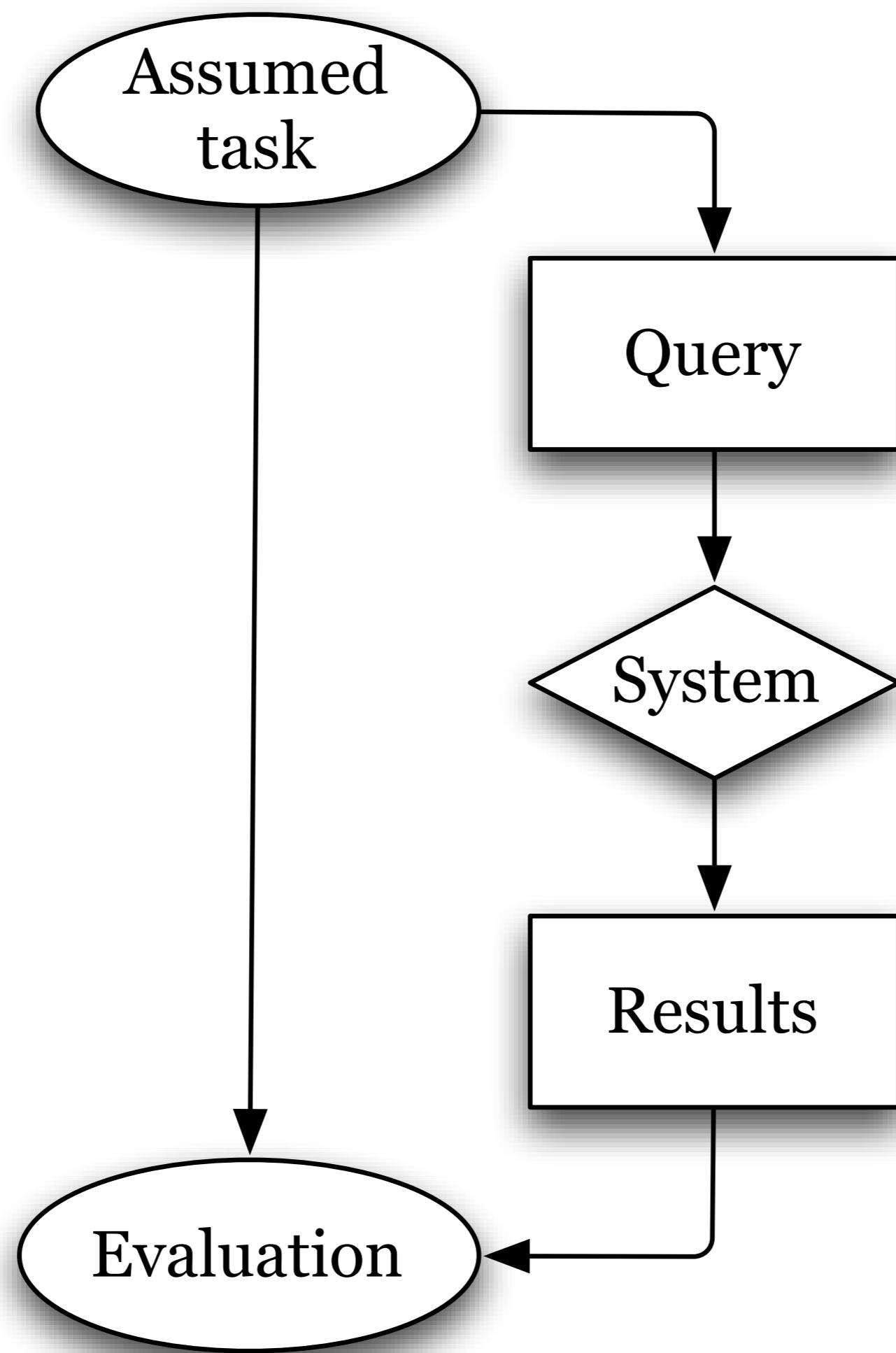
<topic-narrative>

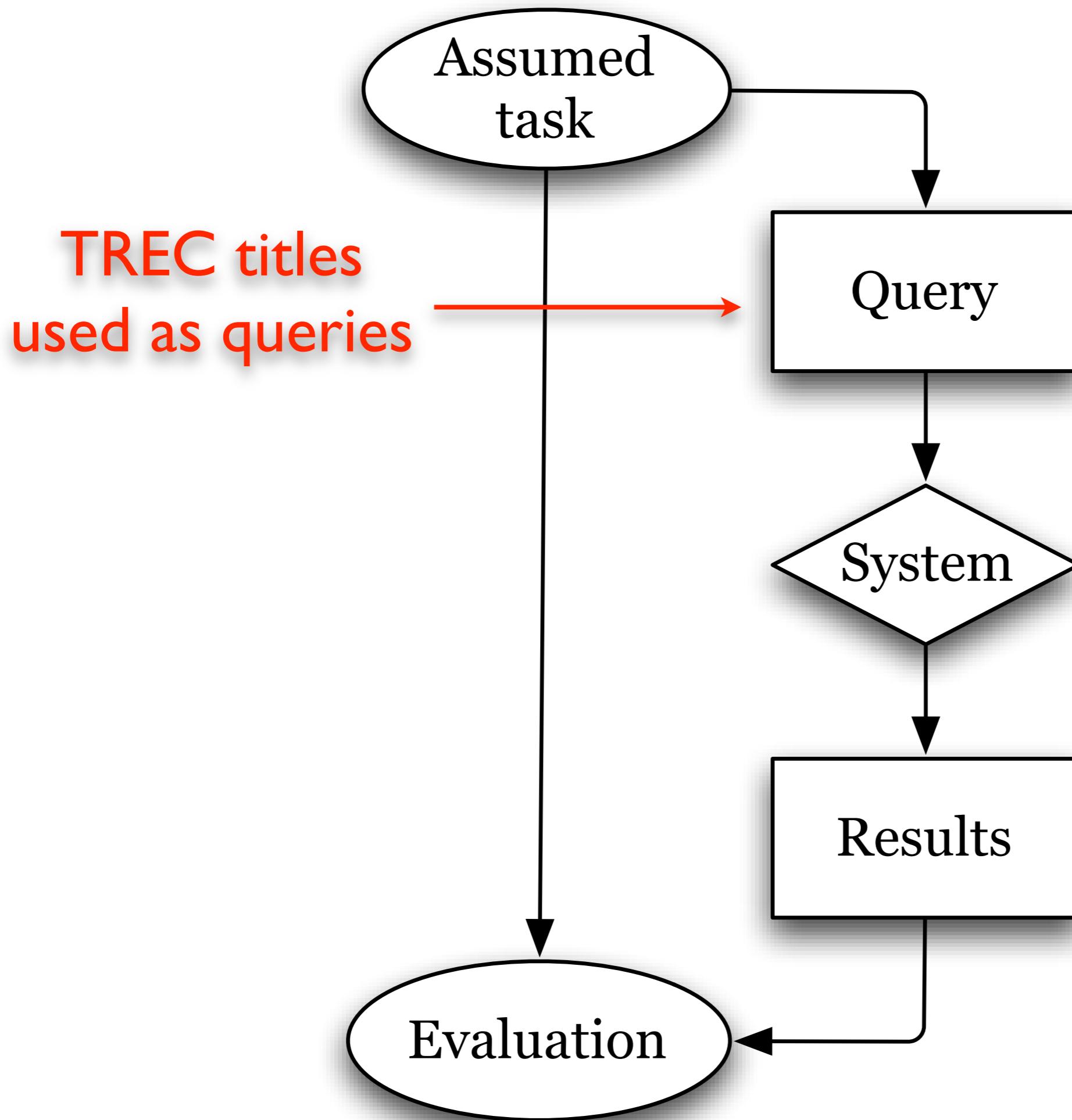
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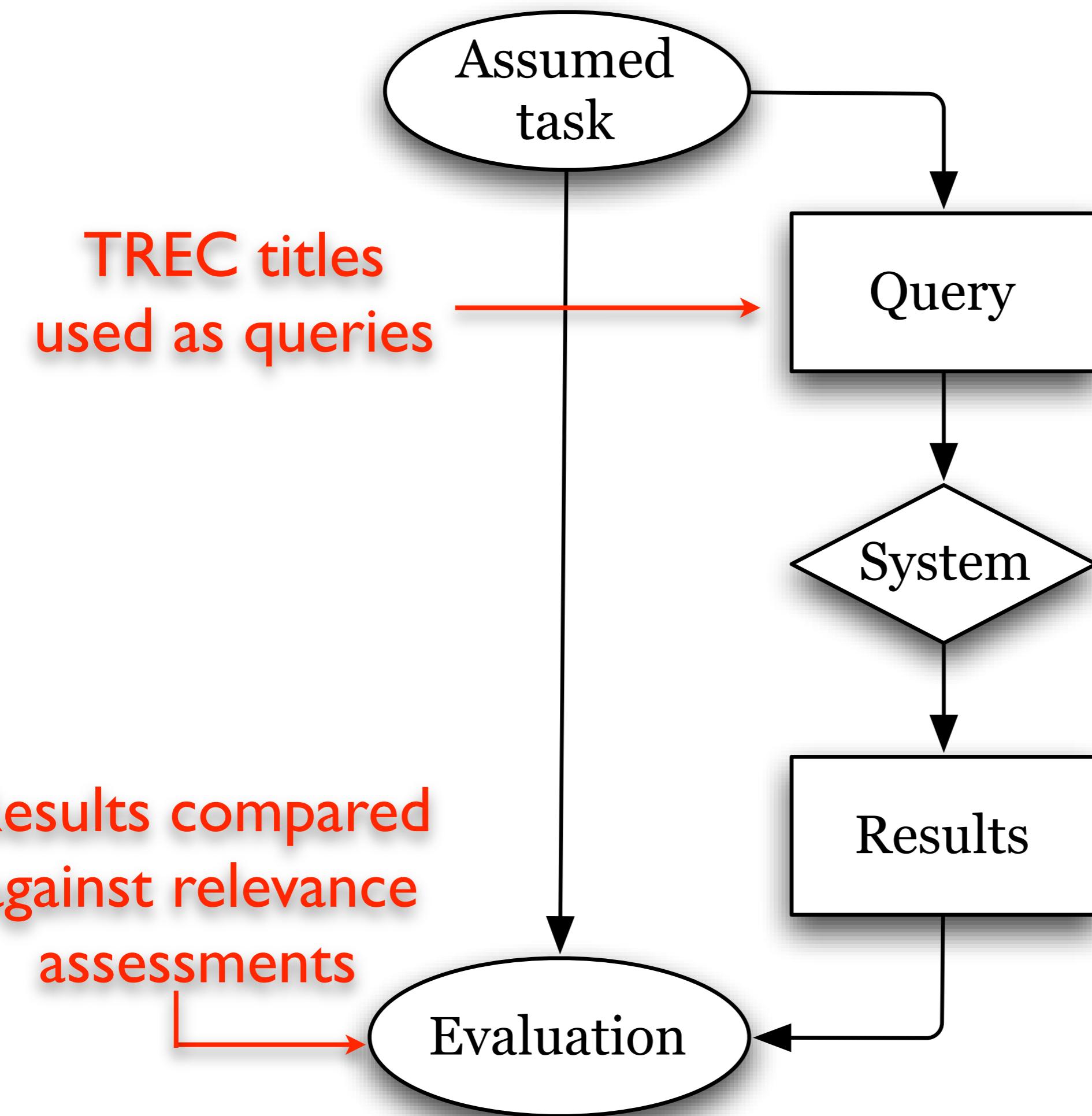
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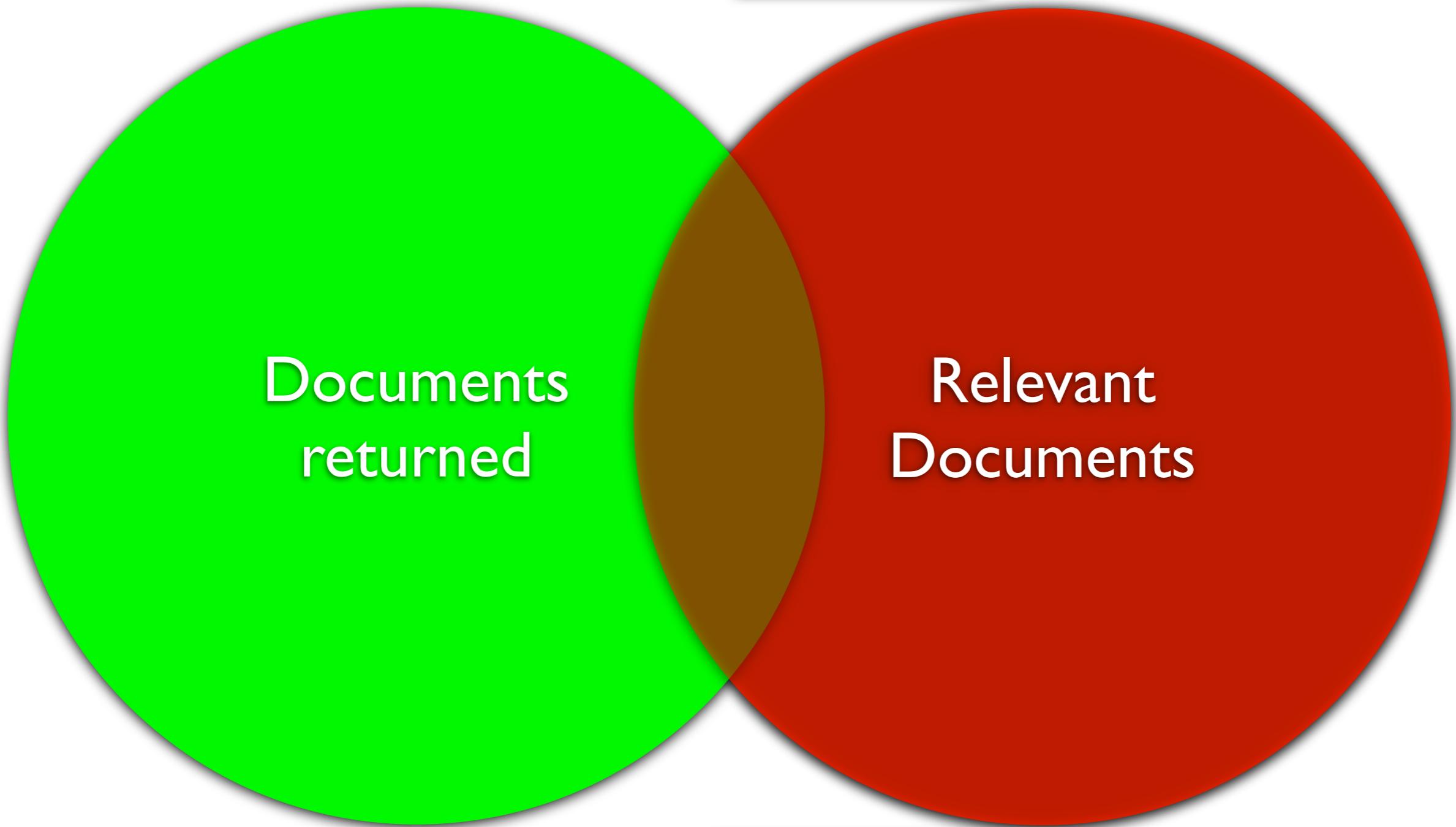
</topic>

Query formulation

- Users often have *difficulty* formulating good queries, especially for tough topics!
- TREC titles not represent full spectrum of queries



Evaluation metrics

$$\text{Recall} = \frac{\text{Relevant Documents}}{\text{Documents returned}}$$

$$\text{Precision} = \frac{\text{Relevant Documents}}{\text{Documents returned}} \text{ (at N)}$$

apple – Google Search

Web Images Maps News Books Translate Gmail more karl.gyllstrom@gmail.com | Web History | Settings | Sign in

Google apple

Search: the web pages from Belgium

[View customizations](#)

Web [Show options...](#) Results 1 - 10 of about 281,000,000 for apple [definition]. (0.11 seconds)

Site Officiel d'Apple ® Sponsored Link
store.apple.com/be Toutes les nouveautés Apple et iPod Livraison gratuite à partir de 121€

Apple - Belgique/België ★ - [[Translate this page](#)]
Apple, Français, Nederlands. Français - Nederlands.
[apple.com/be](#) - United States - [Cached](#)

Apple ★ - 4 visits - 23 Apr
Apple designs and creates iPod and iTunes, Mac laptop and desktop computers, the OS X operating system, and the revolutionary iPhone and iPad.
[Store](#) - [iPad](#) - [Downloads](#) - [Support](#)
[www.apple.com/](#) - United States - [Cached](#) - [Similar](#)

[+ Show more results from www.apple.com](#)

Apple Inc. - Wikipedia, the free encyclopedia ★
Apple Inc. is an American multinational corporation that designs and manufactures consumer electronics, computer software, and personal computers. ...
[en.wikipedia.org/wiki/Apple_Inc.](#) - [Cached](#) - [Similar](#)

Apple - Wikipedia, the free encyclopedia ★
The apple is the pomaceous fruit of the apple tree, species *Malus domestica* in the rose family Rosaceae. It is one of the most widely cultivated tree fruits ...
[en.wikipedia.org/wiki/Apple](#) - [Cached](#) - [Similar](#)

[- Hide more results from en.wikipedia.org](#)

Apple II series - Wikipedia, the free encyclopedia
The Apple II (often rendered Apple][or Apple //) was one of the first highly successful mass produced microcomputer products, designed primarily by Steve ...
[en.wikipedia.org/wiki/Apple_II_series](#) - [Cached](#) - [Similar](#)

Apple Records - Wikipedia, the free encyclopedia
Apple Records is a record label founded by The Beatles in 1968, as a division of Apple Corps Ltd. It was initially intended as a creative outlet for the ...

**Where does it go
wrong?**

Task I

- # relevant documents: 100
- System A:
 - R@100 is 90%, P@100: 90%
- System B:
 - R@100 is 2%, P@100: 2%

Query: what is the temperature outside?

- System A:
 - First relevant document is at 11, or first entry on second page
- System B:
 - Relevant documents at positions 1 and 2

Users *rarely*
pass this point



apple - Google Search
<http://www.google.be/search?hl=en&client=safari&rls=en&q=apple>

Web Images Maps News Books Translate Gmail more karl.gyllstrom@gmail.com | Web History | Settings | Sign in

Google apple Advanced Search

Search: the web pages from Belgium [View customizations](#)

Web Show options... Results 1 - 10 of about 281,000,000 for apple [definition]. (0.11 seconds)

Site Officiel d'Apple ® store.apple.com/be Toutes les nouveautés Apple et iPod Livraison gratuite à partir de 121€ Sponsored Link

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Apple, Français, Nederlands. Français · Nederlands.
apple.com/be - United States - [Cached](#)

Apple ★ - 4 visits - 23 Apr
Apple designs and creates iPod and iTunes, Mac laptop and desktop computers, the OS X operating system, and the revolutionary iPhone and iPad.
[Store](#) - [iPad](#) - [Downloads](#) - [Support](#)
www.apple.com/ - United States - [Cached](#) - [Similar](#)

Show more results from www.apple.com

Apple Inc. - Wikipedia, the free encyclopedia ★
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en.wikipedia.org/wiki/Apple_Inc. - [Cached](#) - [Similar](#)

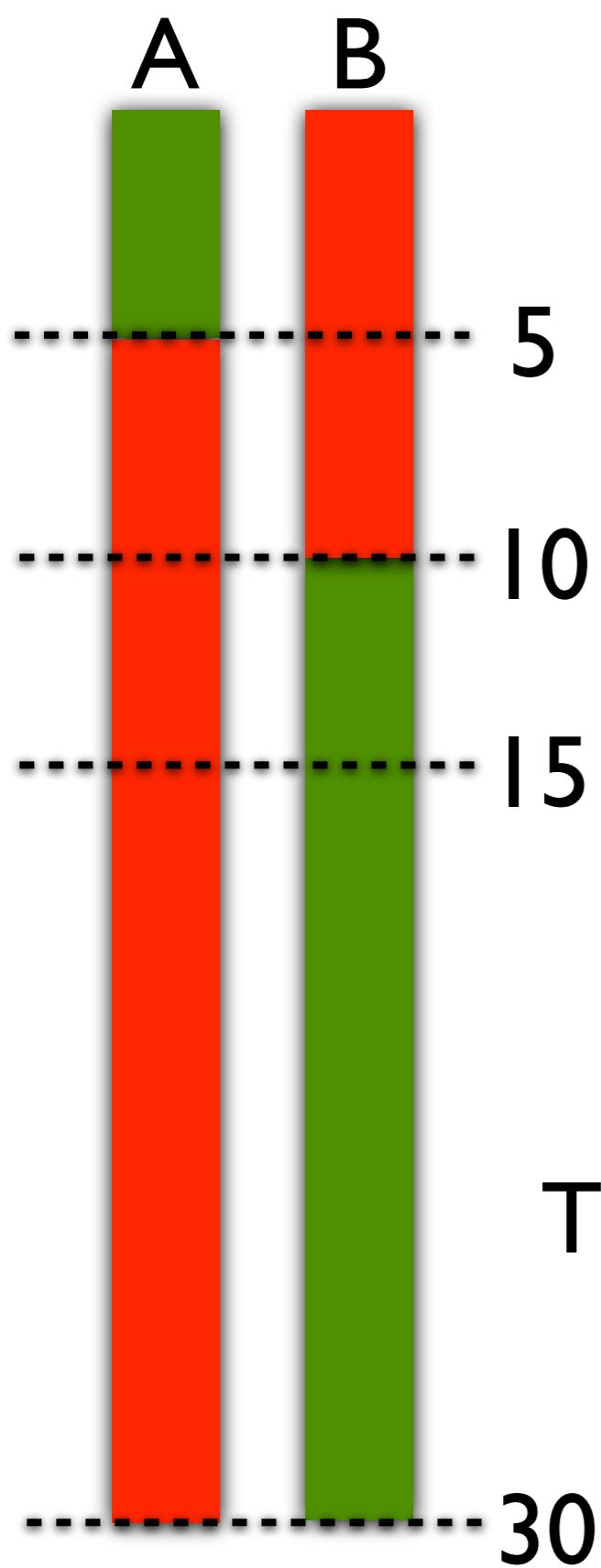
Apple - Wikipedia, the free encyclopedia ★
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Hide more results from en.wikipedia.org

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Apple Records - Wikipedia, the free encyclopedia
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What about more
advanced metrics
like AveP & DCG?



Method	AvePrecision	DCG
A	0.25	3.56
B	0.47	4.71

They still reward *more* relevant documents,
even though position matters a lot

Task 2

- System A:
 - P@5: 100%
- System B:
 - P@5: 40%

**Query: “college
campus racism”**

System A

Result #1

Bush to lay out position on "affirmative action"

WASHINGTON, Jan 15 (AFP) - US President George W. Bush is set to lay out, in a brief to the US Supreme Court due Thursday, his position on whether -- and to what extent -- universities can use race as a factor in admissions. Wading into a political minefield, Bush will submit a "friend of the court" brief challenging the University of Michigan's policy of giving preference to black and Hispanic students, according to US media reports.

"The president believes that quotas and racial preferences do not serve to lift up our country and to help the average American," Bush spokesman Ari Fleischer said Wednesday even as he refused to reveal details of the brief. "Instead, they have a tendency to divide people, to separate people who are deemed to be worthy of something and have it taken away from them not on the basis of merit, but on the basis of simply a quota or something that is driven exclusively by race."

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Whatever its content, the Bush administration brief will come under fire, either from conservatives who oppose all racial preferences or from supporters of such programs on the political left.

The timing is also sensitive, coming not long after Republican Senator Trent Lott lost his majority leader's post over comments seen as supporting racial segregation and after Bush's party lost its sole black member of Congress. The White House has also aggressively courted minorities -- especially Hispanics, who are a fast-growing segment of the electorate -- with an eye on Bush's 2004 reelection bid.

Result #2

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Bush was to make a statement on the case at 4:30 pm (2130 GMT), the White House said.

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Senate Minority Leader Tom Daschle, a Democrat, said Wednesday the case represented a watershed moment for the administration, which recently rebuked political ally former Senate leader Republican Trent Lott for racially charged remarks.

Result #3

Race may be taken into account in US university admissions: Rice by Jean-Louis Doublet

WASHINGTON, Jan 17 (AFP) - Condoleezza Rice, President George W. Bush's national security adviser, who is African-American, said Friday race could be a factor in favoring students of particular backgrounds for university admission.

"I believe that while race-neutral means (of handling admissions) are preferable, it is appropriate to use race as one factor among others in achieving a diverse student body," Rice wrote in a statement released by the White House.

Wednesday, Bush branded the University of Michigan's reliance on race in admissions policy divisive, unfair and unconstitutional as he weighed in on a politically explosive lawsuit.

Bush filed a brief with the US Supreme Court Thursday siding with three white students who have charged they unfairly lost spots to minority students with poorer grades.

In taking such a position, Bush has rekindled the national debate on the affirmative action policy established in the 1960s.

"When the president decided to submit an amicus brief, he asked for my view on how diversity can be best achieved on university campuses. I offered my view, drawing on my experience in academia and as provost of a major university," wrote Rice, who once led prestigious Stanford University.

"I agree with the president's position, which emphasizes the need for diversity and recognizes the continued legacy of racial prejudice, and the need to fight it. The president challenged universities to develop ways to diversify their populations fully," Rice stressed.

Senate Democratic Leader Tom Daschle, speaking at today's Civil Rights

Forum, has called for a Senate resolution in support of what he deems the

Result #4

US Supreme Court hears oral arguments on affirmative action

WASHINGTON, April 1 (AFP) - The US Supreme Court on Tuesday took on the thorny issue of affirmative action, hearing oral arguments on the constitutionality of whether a person's ethnicity can be used as a factor in university admissions.

The Court is reviewing a case that challenges the admissions policies at the University of Michigan. Three white students charged they unfairly lost admission spots to minority students, and claim they suffered discrimination because of their white skin.

The university indeed has a policy of favoring admission of some students of minority ethnic backgrounds, with the goal of having an ethnically diverse student body.

The plaintiffs in the case have assailed the school's policy of giving "under-represented minorities" a 20-point bonus on a 150-point scale used to rate would-be students in its undergraduate program.

In mid-January, President George W. Bush came out against affirmative action, singling out for having an admissions program that amounts to discrimination against white students.

The issue of affirmative action touches the sensitive issue of racism in the United States, which still stirs heated passions 25 years after it came into effect.

It also crashes headlong into great demographic changes under way in the United States, where the majority of European origins -- about 70 percent on the national level -- is on the decline.

In some places, such as California, there now is no ethnic demographic majority, among a population of large groups of whites, Asian-Americans, Hispanics of varied racial backgrounds, and multiracial people.

Result #5

US Supreme Court hears oral arguments on affirmative action by Patrick Anidjar

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Thousands of mostly black demonstrators gathered outside the imposing columned courthouse, waving banners and marching to show their support for affirmative action programs that open university doors to minorities.

"There are more blacks in prison than in college," said the Reverend Jesse Jackson, black rights leader and one-time US presidential contender.

The high court is reviewing a case that challenges the admissions policies at the University of Michigan. Three white students charged they unfairly lost admission spots to minority students, and claim they suffered reverse discrimination because of their skin color.

Barbara Grutter wanted to study law at the university, while Jennifer Gratz and Patrick Hamacher wanted to attend its medical college.

The university, in keeping with once obligatory federal requirements, has a policy of giving a boost to minorities candidates who would not otherwise meet its admission requirements.

The goal is to have a student body whose ethnic makeup represents that of the general population.

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The issue of affirmative action touches the sensitive issue of racism in the United States.

All results were about
same topic
(Some content identical)

System B

Result #1

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The issue of affirmative action touches the sensitive issue of racism in the

Result #2

Germany failing to combat racism: watchdog

BERLIN, July 31 (AFP) - Germany urgently needs to address the problem of racism and discrimination and is less aware of minority rights than other Western countries, a human rights watchdog said Thursday.

"Internationally, Germany is comparatively insensitive to these issues," said Frauke Seidensticker, the deputy head of the German Institute for Human Rights, a parliamentary body.

The institute called for the establishment of independent bodies to combat discrimination and for the introduction of tougher laws, following a study on racial discrimination.

"People are often only aware of discrimination when an act of violence is involved," the study's author, David Nii Addy, told reporters.

Although attacks on foreigners in Germany are a "disturbing constant", discrimination in the workplace, in education and housing are more insidious, he added.

Addy said that immigrants, refugees, gypsies and religious minorities were all targets of mistreatment and that Germany had not embraced the diversity of its racial and ethnic makeup.

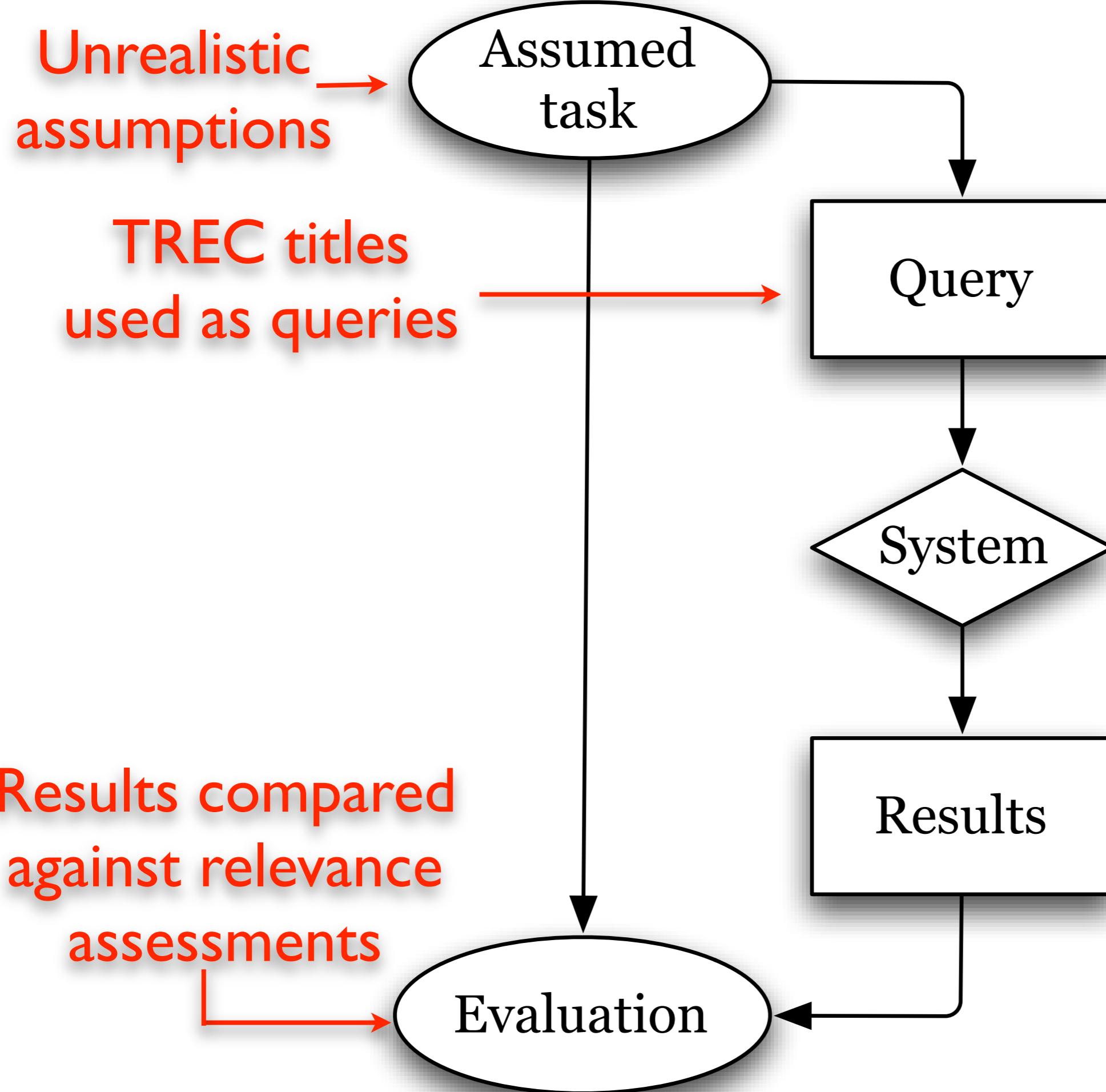
Berlin has also missed a July 19 deadline for implementing European Union anti-racism guidelines, aimed at guaranteeing equal treatment before the law, the study said.

The institute was founded in March 2001 on a recommendation by the lower house of parliament to study the human rights situation in Germany and abroad and help combat rights abuses.

dlc/ec

Germany-racism

**System B has better
results, even with
lower score.
(Diversity matters)**



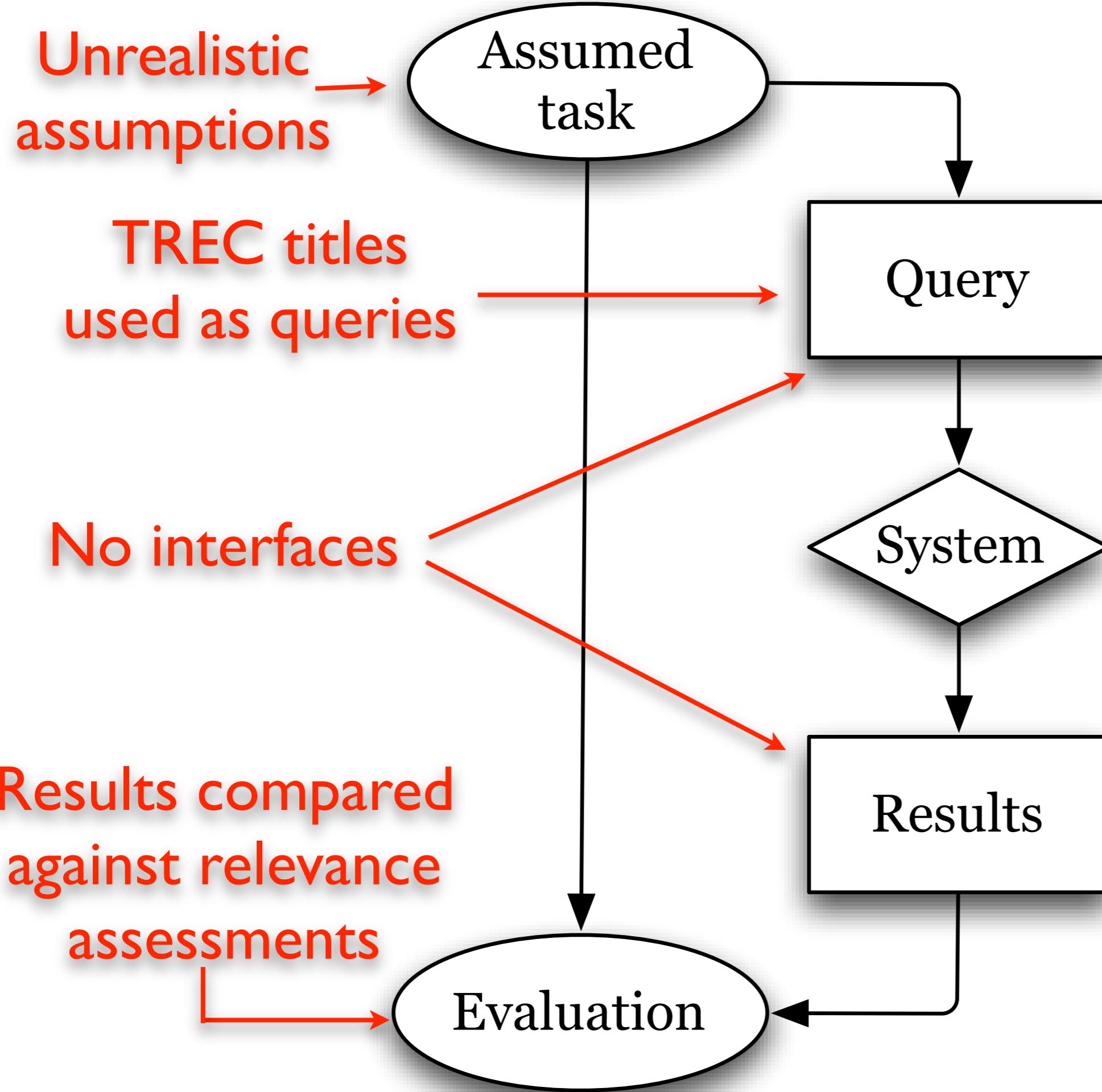
Assumption: users want as many relevant documents as possible



Real user information
needs on web are
complex

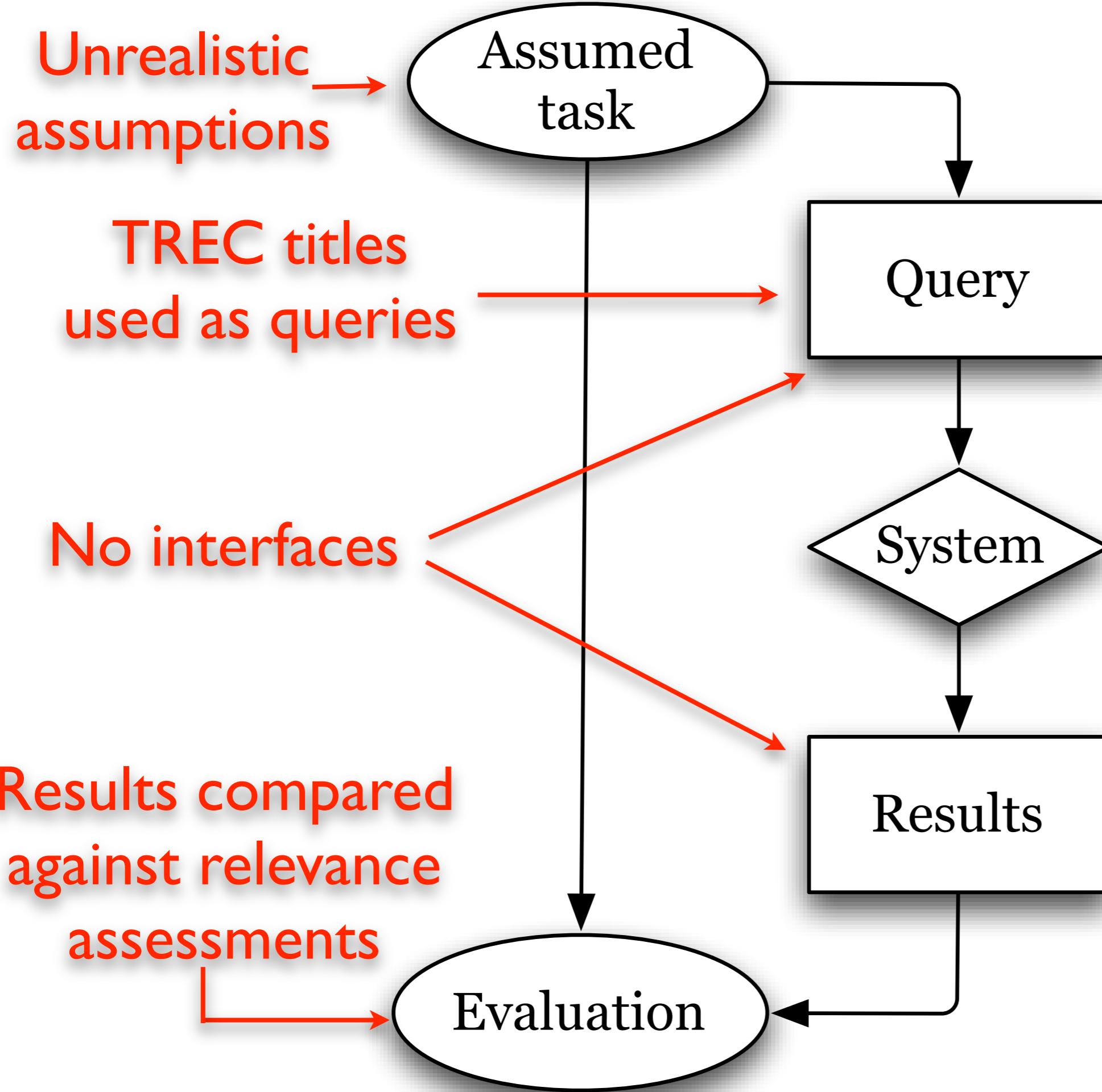
Rose and Levinson (2004)

Type	Category	Example
Navigational	Navigational	<i>ryan air</i>
Closed	Informational	<i>polish president name</i>
Open	Informational	<i>why are metals shiny</i>
Undirected	Informational	<i>color blindness</i>
Advice	Informational	<i>help quitting smoking</i>
Locate	Informational	<i>pizza</i>
List	Informational	<i>belgian universities</i>
Download	Resource	<i>itunes 10</i>
Entertainment	Resource	<i>flash games</i>
Interact	Resource	<i>temperature converter</i>

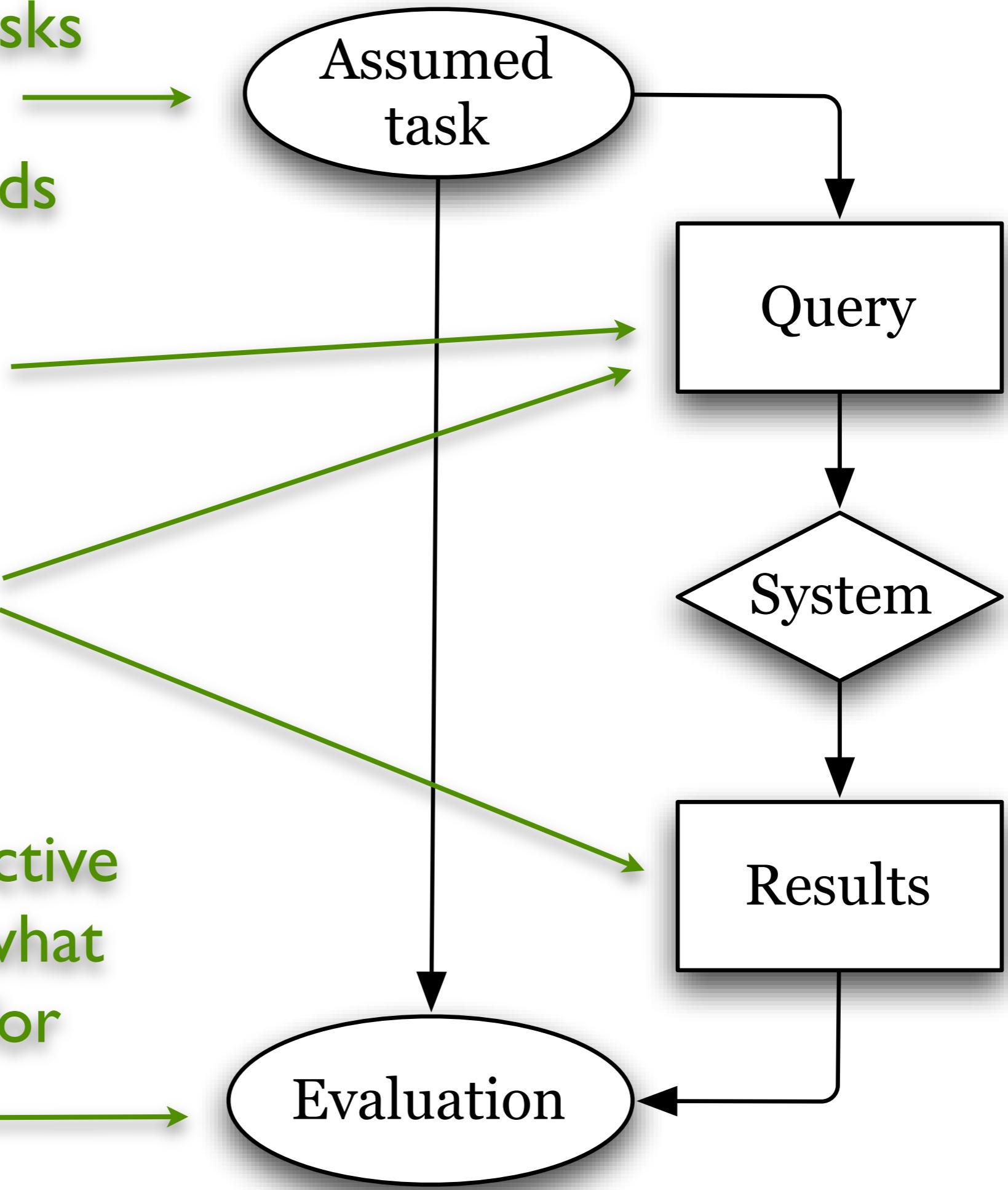




303 Q0 APW|199904|4.0|20 | -4.47987 |343|50000 |
303 Q0 APW|199904|4.0|41 | 2 -4.4843 |343|36000 |
303 Q0 APW|199904|4.0|98 | 3 -4.4843 |343|92000 |
303 Q0 NYT|1998|228.03|15 | 4 -4.52744 |323|9120000 |
303 Q0 NYT|1998|1008.03|7 | 5 -4.57646 |292|0180000 |
303 Q0 NYT|199903|10.03|33 | 6 -4.63168 |353|5710000 |
303 Q0 NYT|199907|19.04|30 | 7 -4.65655 |405|18300000 |
303 Q0 APW|199905|16.00|13 | 8 -4.66426 |1427|05000 |
303 Q0 APW|199905|16.01|27 | 9 -4.66426 |1428|180000 |
303 Q0 NYT|199901|07.03|73 | 10 -4.67238 |3279|630000 |
303 Q0 NYT|1998|1008.03|31 | 11 -4.70614 |291|9810000 |
303 Q0 NYT|199901|08.03|68 | 12 -4.70841 |3284|400000 |
303 Q0 NYT|1999|12|15.02|29 | 13 -4.70949 |4577|640000 |
303 Q0 NYT|199906|1.03|11 | 14 -4.74697 |3869|290000 |
303 Q0 NYT|1999|12|21.03|51 | 15 -4.74856 |4600|1200000 |
303 Q0 NYT|1999|1|15.03|09 | 16 -4.76023 |4487|4200000 |



Many different tasks
and types of
information needs



Help formulating
queries

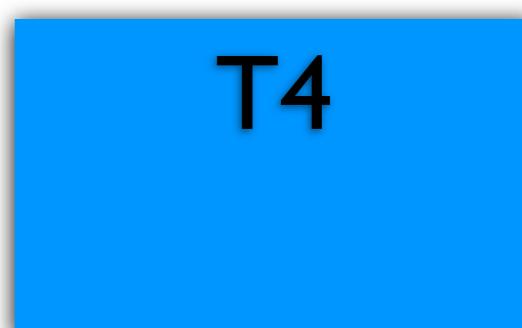
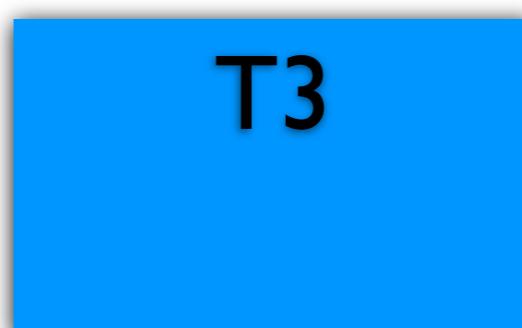
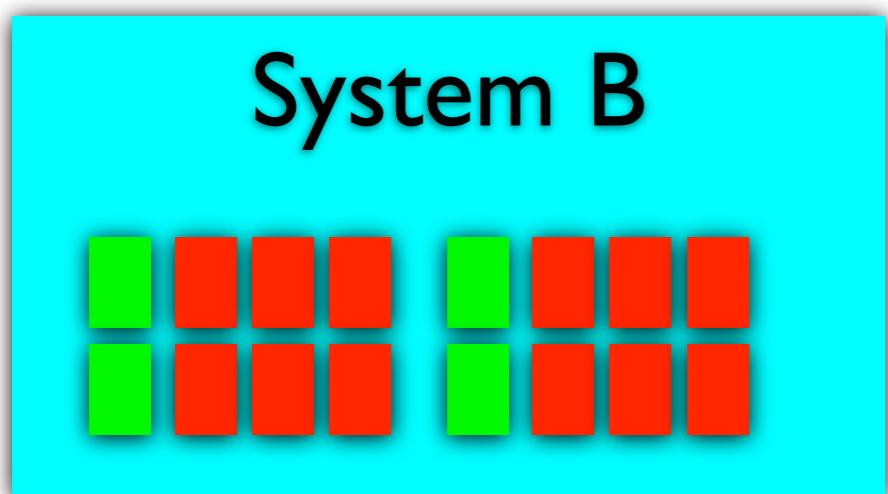
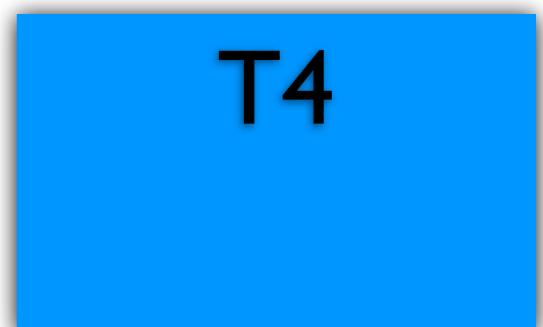
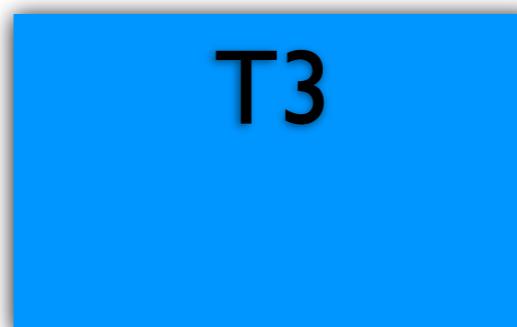
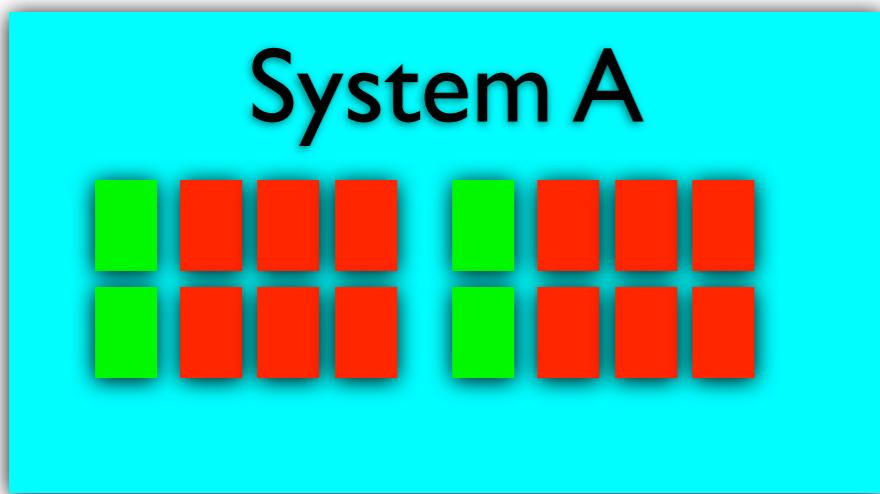
Useful interfaces

System is *only* effective
when users find what
they're looking for

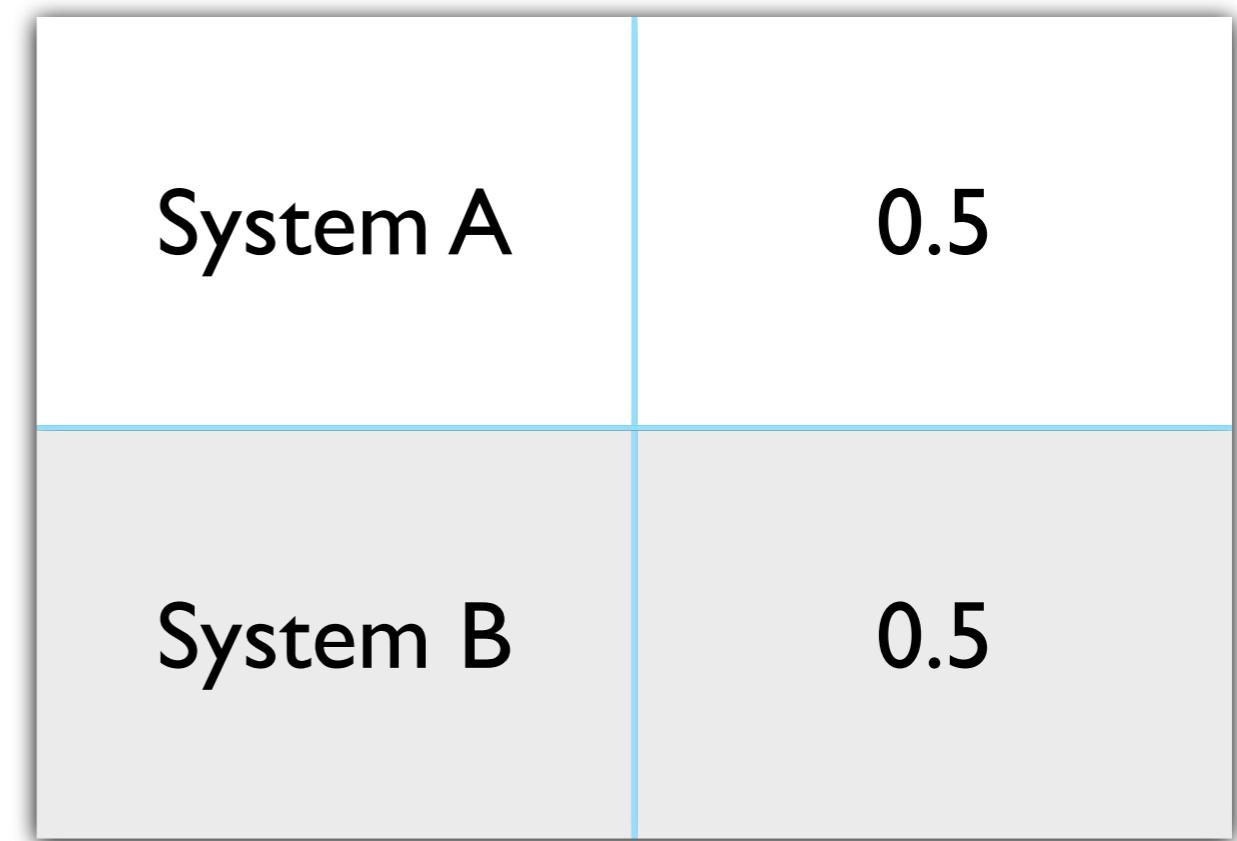
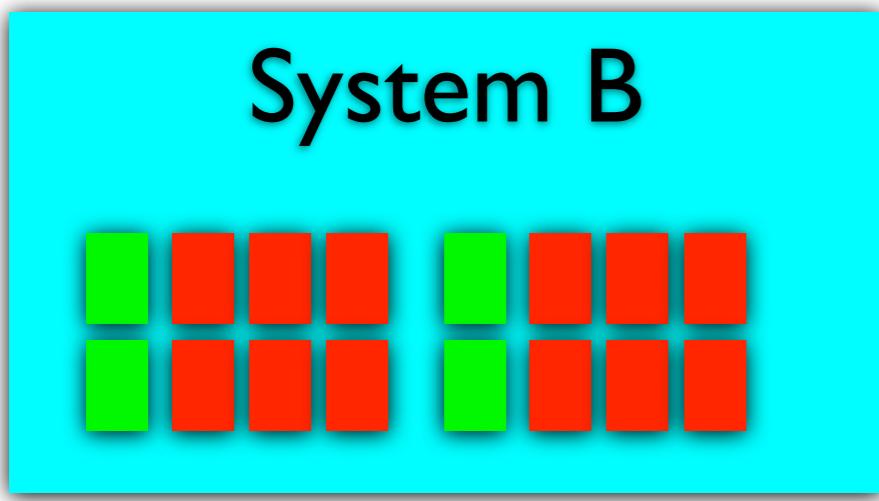
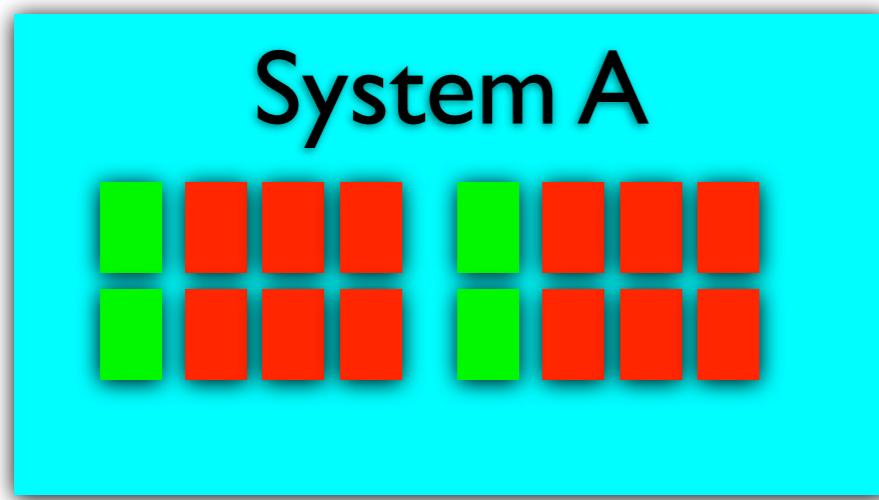
In summary: non-
interactive IR *simplifies*
a difficult problem

Metrics: session vs. query

Topics



Mean Average Precision (MAP)



Evaluation: *relevance*

- Binary is insufficient
 - Different documents may address an information need differently

Example

- Query: “72F to C”
- strong weak weaker

Evaluation: *relevance* & *context*

Query: “college
campus racism”

Result #1

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Result #2

Bush to lay out position on race in university admissions

WASHINGTON, Jan 15 (AFP) - US President George W. Bush is set to lay out, in a brief to the US Supreme Court due Thursday, his position on whether -- and to what extent -- universities can use race as a factor in admissions. Wading into a political minefield, Bush will submit a "friend of the court" brief challenging the University of Michigan's policy of giving preference to black and Hispanic students, according to US media reports.

"The president believes that quotas and racial preferences do not serve to lift up our country and to help the average American," Bush spokesman Ari Fleischer said Wednesday, even as he refused to reveal details of the brief. "Instead, they have a tendency to divide people, to separate people who are deemed to be worthy of something and have it taken away from them not on the basis of merit, but on the basis of simply a quota or something that is driven exclusively by race."

Bush was to make a statement on the case at 4:30 pm (2130 GMT), the White House said.

Three white students have charged they were denied admission to the University of Michigan because of a program that gives "underrepresented minorities" a 20-point bonus on a 150-point scale used to rate would-be students in its undergraduate program, according to the Washington Post. The school also works to admit an undefined "critical mass" of minority students into its law program, the daily said.

Senate Minority Leader Tom Daschle, a Democrat, said Wednesday the case represented a watershed moment for the administration, which recently rebuked political ally former Senate leader Republican Trent Lott for racially charged remarks.

Article is repeat.
User is unlikely to
desire this result
after viewing the first.

Evaluation: *relevance* & *context*

- Results may *lose relevance* if previous results are already relevant

Metrics: diversity

- Measure the ability for system to return varied results for a query/queries
 - overlap of multiple queries' results: is system providing new results?
 - possible metric: % new items per query

Metrics: recency

Users may prefer recent results



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Category:Earthquakes in Japan

From Wikipedia, the free encyclopedia



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Subcategories

This category has only the following subcategory.

M

- [\[+\] Megathrust earthquakes in Japan \(1 C, 9 P\)](#)

Pages in category "Earthquakes in Japan"

The following 37 pages are in this category, out of 37 total. This list may not reflect recent changes ([learn more](#)).

- [List of earthquakes in Japan](#)

1

- [1771 Great Yaeyama Tsunami](#)

2

- [2010 Bonin Islands earthquake](#)
- [2010 Northeast Asia earthquake](#)
- [2011 Tōhoku earthquake and tsunami](#)

8

- [869 Sanriku earthquake and tsunami](#)

A

- [1855 Ansei Edo earthquake](#)
- [Ansei Great Earthquakes](#)

C

- [2007 Chūetsu offshore earthquake](#)
- [2004 Chūetsu earthquake](#)

F

- [1948 Fukui earthquake](#)
- [2005 Fukuoka earthquake](#)

G

- [1703 Genroku earthquake](#)

G cont.

- [Great Hanshin earthquake](#)

H

- [1858 Nietsu earthquake](#)
- [1993 Hokkaidō earthquake](#)

I

- [2008 Iwate-Miyagi Nairiku earthquake](#)
- [2009 Izu Islands earthquake](#)

K

- [1293 Kamakura earthquake](#)
- [1923 Great Kantō earthquake](#)
- [Kanto earthquake](#)
- [2007 Kuril Islands earthquake](#)
- [2006 Kuril Islands earthquake](#)

M

- [1894 Meiji Tokyo earthquake](#)
- [1896 Meiji-Sanriku earthquake](#)
- [1945 Mikawa earthquake](#)

M cont.

- [1891 Mino-Owari earthquake](#)
- [2005 Miyagi earthquake](#)
- [1978 Miyagi earthquake](#)

N

- [1964 Niigata earthquake](#)
- [2007 Noto earthquake](#)

O

- [1984 Otaki earthquake](#)

R

- [1998 Ryukyu Islands earthquake](#)

S

- [1933 Sanriku earthquake](#)
- [Seismicity in Japan](#)
- [2009 Shizuoka earthquake](#)

T

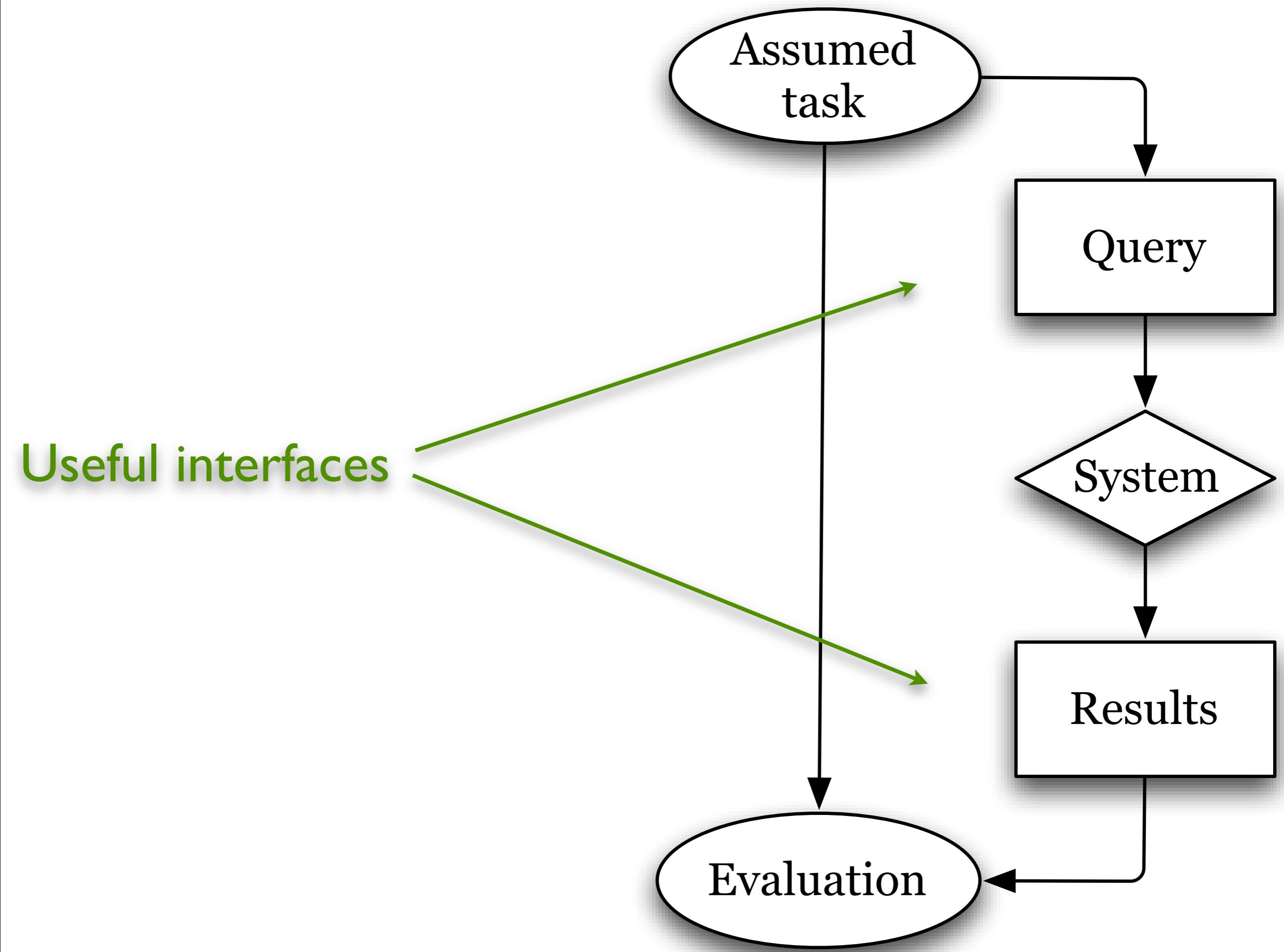
- [1943 Tottori earthquake](#)

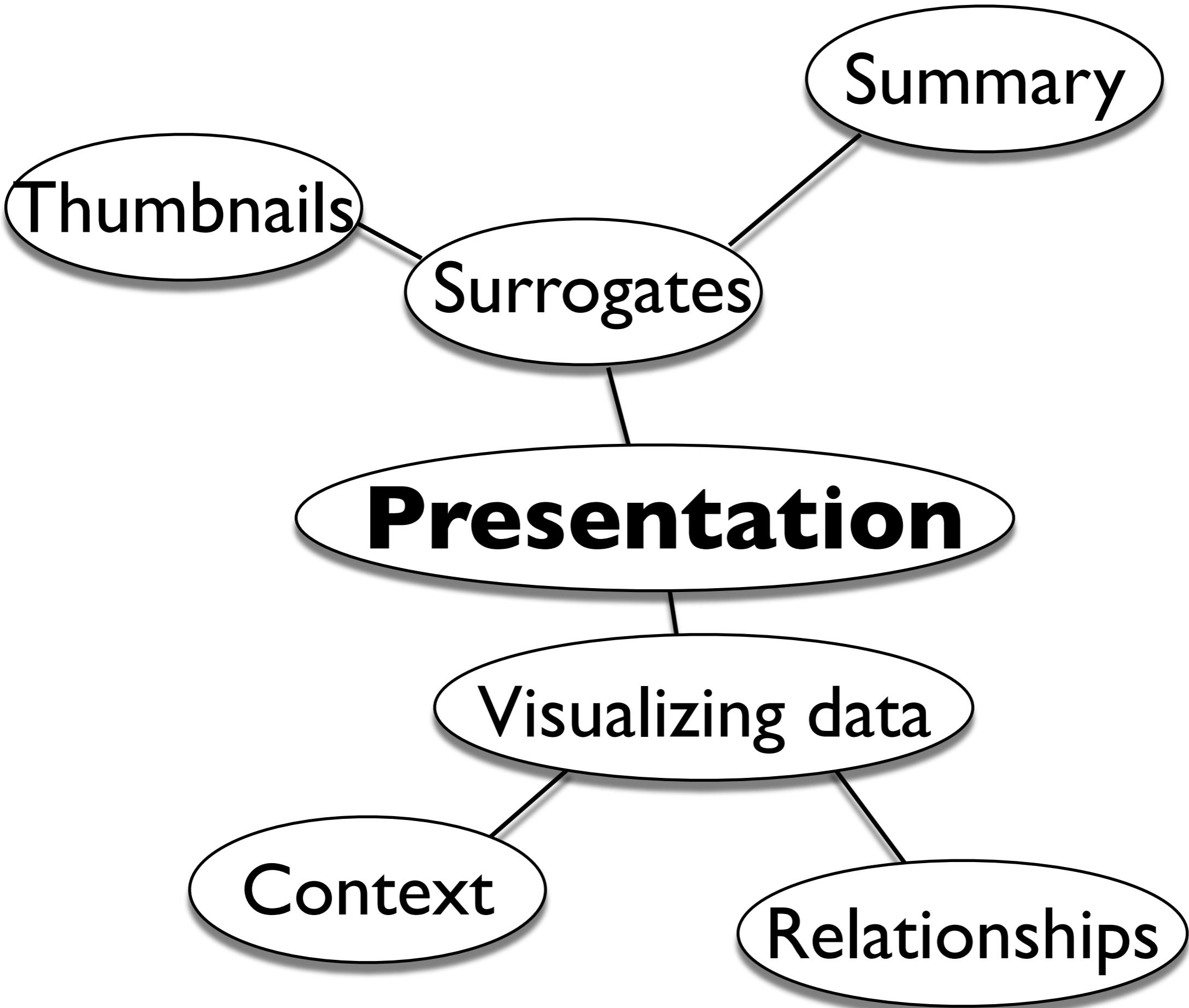
Categories: [Natural disasters in Japan](#) | [Earthquakes by country](#) | [Geology of Japan](#) | [Earthquakes in Asia](#)

This page was last modified on 12 March 2011 at 20:01.

Evaluation: summary

- Per-query metrics can be misleading
 - prefer session-based
- Prefer graded to binary
- Result relevance is relative & contextual
- Diversity, recency, and other qualities matter

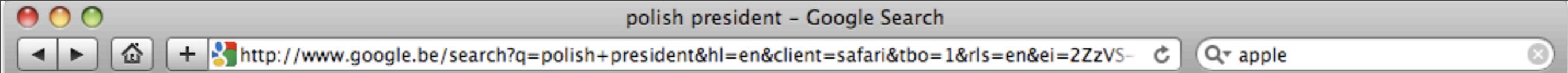




Surrogates

- Representation of a search result
- Users more than half time read summaries and reformulate queries without reading documents (Lorigo 2006)

303 Q0 APW|199904|4.0|20 | -4.47987 |343|50000 |
303 Q0 APW|199904|4.0|41 | 2 -4.4843 |343|360000 |
303 Q0 APW|199904|4.0|98 | 3 -4.4843 |343|920000 |
303 Q0 NYT|1998|228.03|15 | 4 -4.52744 |323|9120000 |
303 Q0 NYT|1998|1008.03|7 | 5 -4.57646 |292|0180000 |
303 Q0 NYT|199903|10.03|33 | 6 -4.63168 |353|5710000 |
303 Q0 NYT|199907|19.04|30 | 7 -4.65655 |405|18300000 |
303 Q0 APW|199905|16.00|13 | 8 -4.66426 |1427|050000 |
303 Q0 APW|199905|16.01|27 | 9 -4.66426 |1428|180000 |
303 Q0 NYT|199901|07.03|73 | 10 -4.67238 |3279|630000 |
303 Q0 NYT|1998|1008.03|31 | 11 -4.70614 |291|9810000 |
303 Q0 NYT|199901|08.03|68 | 12 -4.70841 |3284|400000 |
303 Q0 NYT|1999|12|15.02|29 | 13 -4.70949 |4577|640000 |
303 Q0 NYT|199906|1.03|11 | 14 -4.74697 |3869|290000 |
303 Q0 NYT|1999|12|21.03|51 | 15 -4.74856 |4600|1200000 |
303 Q0 NYT|1999|1|15.03|09 | 16 -4.76023 |4487|4200000 |



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polish president

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Results 1 - 10 of about 39,200,000 for **polish president**. (0.17 seconds)

[Poland — President: Lech KACZYSKI](#)

According to <https://www.cia.gov/library/publications/world-leaders-1/world-leaders-p/poland.html>

[BBC News - Polish President Lech Kaczynski dies in plane crash](#) ★

10 Apr 2010 ... Poland's **President** Lech Kaczynski and scores of others are killed as their plane crashes in Russia after hitting trees in foggy weather.

<news.bbc.co.uk/2/hi/8612825.stm> - [Cached](#)

[Polish leader, 96 others dead in Russia jet crash - Yahoo! News](#) ★

10 Apr 2010 ... The crash of an aging Russian airliner ravaged the top levels of Poland's military, political and church elite Saturday, killing the **Polish** ...

news.yahoo.com/s/ap/20100410/ap_on.../eu_russia_plane_crash - [Cached](#)

[Lech Kaczyński - Wikipedia, the free encyclopedia](#) ★ - 14:17

"Polish President Lech Kaczynski Killed When Plane Crashed On Approach To Smolensk **Polish President** Lech Kaczyński dies as his plane crashes in Russia ...

en.wikipedia.org/wiki/Lech_Kaczyński - [Cached](#) - [Similar](#)

[President of Poland - Wikipedia, the free encyclopedia](#) ★

The **President** of the Republic of Poland (Polish: Prezydent Rzeczypospolitej Polskiej, shorter form: Prezydent RP) is the **Polish** head of state. ...

en.wikipedia.org/wiki/President_of_Poland - [Cached](#)

[News results for polish president](#)



[Late Poland president's twin runs to replace him](#) - 10 minutes ago

By Lennart Preiss, AFP/Getty Images WARSAW (AP) — **Polish** opposition party leader Jaroslaw Kaczynski said Monday he will run in summer elections to replace ...

[USA Today - 125 related articles »](#)

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[21 bodies of crash victims return to Poland](#) -

[eTaiwan News - 327 related articles »](#)

[Latest results for polish president](#) - [Pause](#)

[TFkalv](#): [BBC] Twin to run for **Polish president**: Jaroslaw Kaczynski, the twin brother of the



Lech Kaczyński

From Wikipedia, the free encyclopedia

Lech Aleksander Kaczyński (Polish pronunciation: ['lex ale'ksander ka'tsinski] (listen); 18 June 1949 – 10 April 2010) was the President of Poland from 2005 to 2010, a politician of the party Prawo i Sprawiedliwość (Law and Justice, PiS).^[2] Kaczyński served as Mayor of Warsaw from 2002 until 22 December 2005, the day before his presidential inauguration. He was the identical twin brother of the former Prime Minister of Poland and current Chairman of the Law and Justice party, Jarosław Kaczyński.^{[3][4]} On 10 April 2010, he died in the crash of a Polish Air Force Tu-154 landing at Smolensk-North airport in Russia.^{[5][6]}

Contents [hide]

- 1 Early life
- 2 Opposition to Communism
- 3 After 1989 political activity
 - 3.1 Law and Justice
 - 3.2 Mayor of Warsaw
- 4 Presidency
 - 4.1 Presidential election
 - 4.2 Domestic policy
 - 4.3 Presidential pardons
 - 4.4 Foreign affairs
- 5 Marriage and family
- 6 Death
 - 6.1 State funeral
- 7 References
- 8 External links

Early life

[edit]

Kaczyński was born in Żoliborz, Warsaw, the son of Rajmund (an engineer who served as a soldier of the Armia Krajowa in World War II and a veteran of the Warsaw Uprising)^[7] and Jadwiga (a philologist at the Polish Academy of Sciences).^[8] As a child, he starred in a 1962 Polish film, *The Two Who Stole the Moon* (Polish title *O dwóch takich, co ukradli księżyc*) with his twin brother Jarosław.

Lech Kaczyński



President of Poland

In office

23 December 2005 – 10 April 2010

Prime Minister Kazimierz Marcinkiewicz

Jarosław Kaczyński

Donald Tusk

Preceded by Aleksander Kwaśniewski

Succeeded by Bronisław Komorowski (Acting)

Minister of Justice

In office

12 June 2000 – 4 July 2001

Prime Minister Jerzy Buzek

Preceded by Jerzy Buzek (Acting)

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Page last updated at 13:13 GMT, Monday, 26 April 2010 14:13 UK

News Feeds |

**SUDAN POLL: Salva Kiir is confirmed as leader of Southern Sudan, ...****President wins key Sudan election**

Sudan's President Omar al-Bashir is declared the winner of this month's landmark polls, despite facing war crimes charges.

- Profile: Sudan's Omar al-Bashir
- Profile: Salva Kiir
- Historic election own-goal

Twin to run for Polish president

Jaroslaw Kaczynski, twin brother of Poland's former president who was killed in a plane crash in Russia, hopes to be elected in his place.

VIDEO NEWS

Sandstorms blast northern China



Prisoners' wives 'harassed' in Cuba



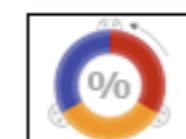
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Blue stork surprises German villagers

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News results for lech Kaczyński


Reuters

[Kaczynski twin to stand in polls](#) - 6 hours ago
By Jan Cienski in Warsaw Jarosław Kaczyński, the leader of Poland's rightwing ... replace his twin brother Lech, who was killed in an air crash this month. ...

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[Wall Street Journal](#) - 327 related articles »

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Lech Aleksander Kaczyński (Polish pronunciation: ['lex ale'ksander ka'tsińskij] (listen); 18 June 1949 – 10 April 2010) was the President of Poland from ...
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Jarosław Kaczyński - Wikipedia, the free encyclopedia

Jarosław Aleksander Kaczyński (Polish pronunciation: [ja'rɔswaf ka'tsińskij] (listen); (born June 18, 1949) is a conservative Polish politician who was ...
en.wikipedia.org/wiki/Jarosław_Kaczyński - 11 hours ago - [Cached](#) - [Similar](#)

Lech Kaczynski: In Death Too He Divides | Eurasia Review

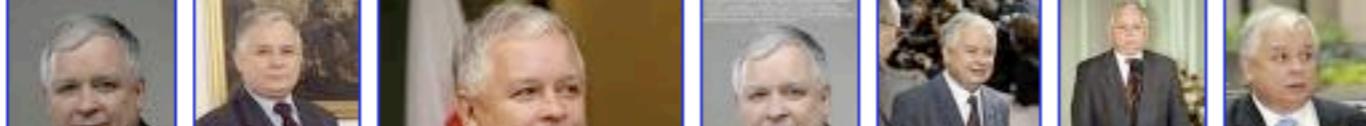
The lawyer and solidarity leader who had fought for the freedom of Poland from Soviet Union and President of Poland, Lech Kaczynski, his wife Mary, ...
www.eurasiareview.com/.../lech-kaczynski-in-death-too-he-divides.html - [Cached](#)

Blog posts about lech Kaczyński

[IntelliBriefs: Lech Kaczynski: In Death too He Divides](#) - IntelliBriefs - 1 day ago
[Jaroslaw Kaczynski Announces he Will Run for President](#) | Up - Up - 4 hours ago
[Four gunshots fired after Poland's President Lech Kaczynski's](#) ... - Fire Andrea Mitchell! - 2 days ago

Image results for lech Kaczyński

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lech Kaczyński

[Lech Kaczyński - Wikipedia, the free encyclopedia](#) ★ - 2 visits - 09:18

Lech Aleksander Kaczyński (Polish pronunciation: [ˈlex aleˈksander kaˈtʂɨɲskij] (listen); 18 June 1949 – 10 April 2010) was the President of Poland from ...
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polish president

[Lech Kaczyński - Wikipedia, the free encyclopedia](#) ★ - 14:17

"Polish President Lech Kaczynski Killed When Plane Crashed On Approach To Smolensk Polish President Lech Kaczyński dies as his plane crashes in Russia ...
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Query based summaries

- Score sentences
 - sentence terms in headline
 - first 2 sentences
 - sentence terms in query

(Ryen W. White, Ian Ruthven, Joemon M. Jose. Finding Relevant Documents using Top-Ranking Sentences: An Evaluation of Two Alternative Schemes. SIGIR 2002)

Anchor based summaries

- Look for anchors with form:
 - *anchor : description*

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- Filter by features such as length, pronouns, etc

Automatically Summarising Web Sites - Is There A Way Around It? Amitay & Paris, CIKM 2000

Surrogates: thumbnails

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hello world

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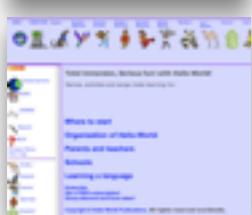


[Hello world program - Wikipedia, the free encyclopedia](#)

A "Hello World" program is a computer program which prints out "Hello, World!" on a display device. It is used in many introductory tutorials for teaching a ...

[Purpose](#) - [History](#) - [Variations](#) - [See also](#)

en.wikipedia.org/wiki/Hello_world_program - [Cached](#) - [Similar](#)



[Total immersion, Serious fun! with Hello-World!](#)

Games, activities and songs make learning fun (in English)

www.hello-world.com/ - [Cached](#) - [Similar](#)

[Hello World](#)

Lessons, games, and activities to learn English. Listen to native speakers at home with activities especially for children.

www.hello-world.com/English/index.php - [Cached](#)

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[The Hello World Collection](#)

The Collection without Frames.

www.roesler-ac.de/wolfram/hello.htm - [Cached](#) - [Similar](#)



[Hello World - Android Developers](#)

developer.android.com/guide/tutorials/hello-world.html - [Similar](#)

Thumbnails

- Sometimes useful
 - Page remembered or recognized
- Other times not
 - Page not recognized
 - Takes more time scanning

Dziadosz & Chandrasekar. Do thumbnail previews help users make better relevance decisions about web search results? SIGIR 2002.

The screenshot shows a Google search results page for the query "hello world". The search bar at the top contains "hello world". Below it, a message says "About 57,700,000 results (0.09 seconds)".

Left sidebar:

- Everything** (selected)
- Images
- Videos
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- Discussions
- More

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Latest
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All results
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Timeline
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Search results:

- Hello world program - Wikipedia, the free encyclopedia**
A "Hello world" program is a computer program that outputs the words "Hello world" to the device. It is typically one of the simplest programs ever written.
Purpose - History - Variations - See also
en.wikipedia.org/wiki/Hello_world_program - Cached - Similar
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 - Helloworld's parent company has changed its name**
VMDirect, LLC. changed its name to ComF5, LLC. in an effort to unify ...
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Right sidebar (expanded for some results):

- "Hello World" redirects here. For the 2009 compilation album by Michael Jackson, ...**
- A light-programmable biofilm displaying the Hello World message ...**

- $56,871 \times 2,000,000,000 = 113,742,000,000,000$
- $(56,871 + 19,704) \times 2B = 153,150,000,000,000$
- $(56,871 + (10 \times 19,704)) \times 2B = 507,822,000,000,000$

4.5x more!

Navigating data

Scatter/Gather

Cutting et al. 1992

- Cluster 1 Size: 8 key army war francis spangle banner air song scott word poem british
 - Star-Spangled Banner, The
 - Key, Francis Scott
 - Fort McHenry
 - Arnold, Henry Harley
 - Melissa Auf der Maur
- Cluster 2 Size: 68 film play career win television role record award york popular stage p
 - Burstyn, Ellen
 - Stanwyck, Barbara
 - Berle, Milton
 - Zukor, Adolph
 - Bouldred, Tellulah
- Cluster 3 Size: 97 bright magnitude cluster constellation line type contain period spectra
 - star
 - Galaxy, The
 - extragalactic systems
 - interstellar matter
 - cluster stars
- Cluster 4 Size: 67 astronomer observatory astronomy position measure celestial telescope
 - astronomy and astrophysics
 - astrometry
 - Agena
 - astronomical catalogs and atlases
 - telescope
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 - blazing star
 - brittle star
 - bishop's-cap
 - feather star



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 Open 267.01 EPS 11.78
 Vol / Avg. 21.31M/19.02M Shares 909.64M
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Tip: Use commas to compare multiple search terms.

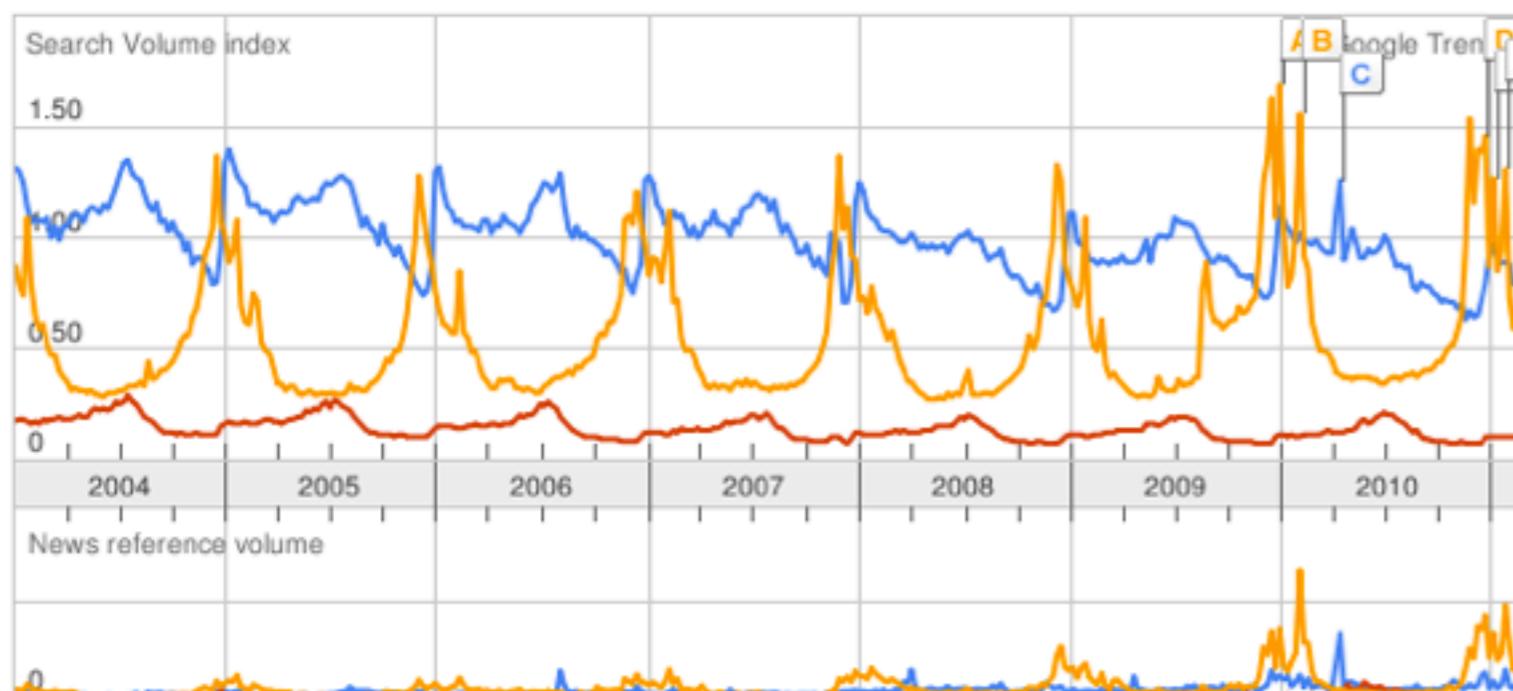
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3. Manchester, United Kingdom
4. Thames Ditton, United Kingdom
5. Brentford, United Kingdom
6. Milton Keynes, United Kingdom
7. Dublin, Ireland
8. Sheffield, United Kingdom

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2. Dutch
3. German
4. Spanish
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78

[SAVE](#)via www.huffingtonpost.com

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[Green Sahara - The Big Picture - Boston.com](#)

82

via www.boston.com

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politics < palin < prank < funny < humor

[The Last Professor - Stanley Fish Blog - NYTimes.com](#)

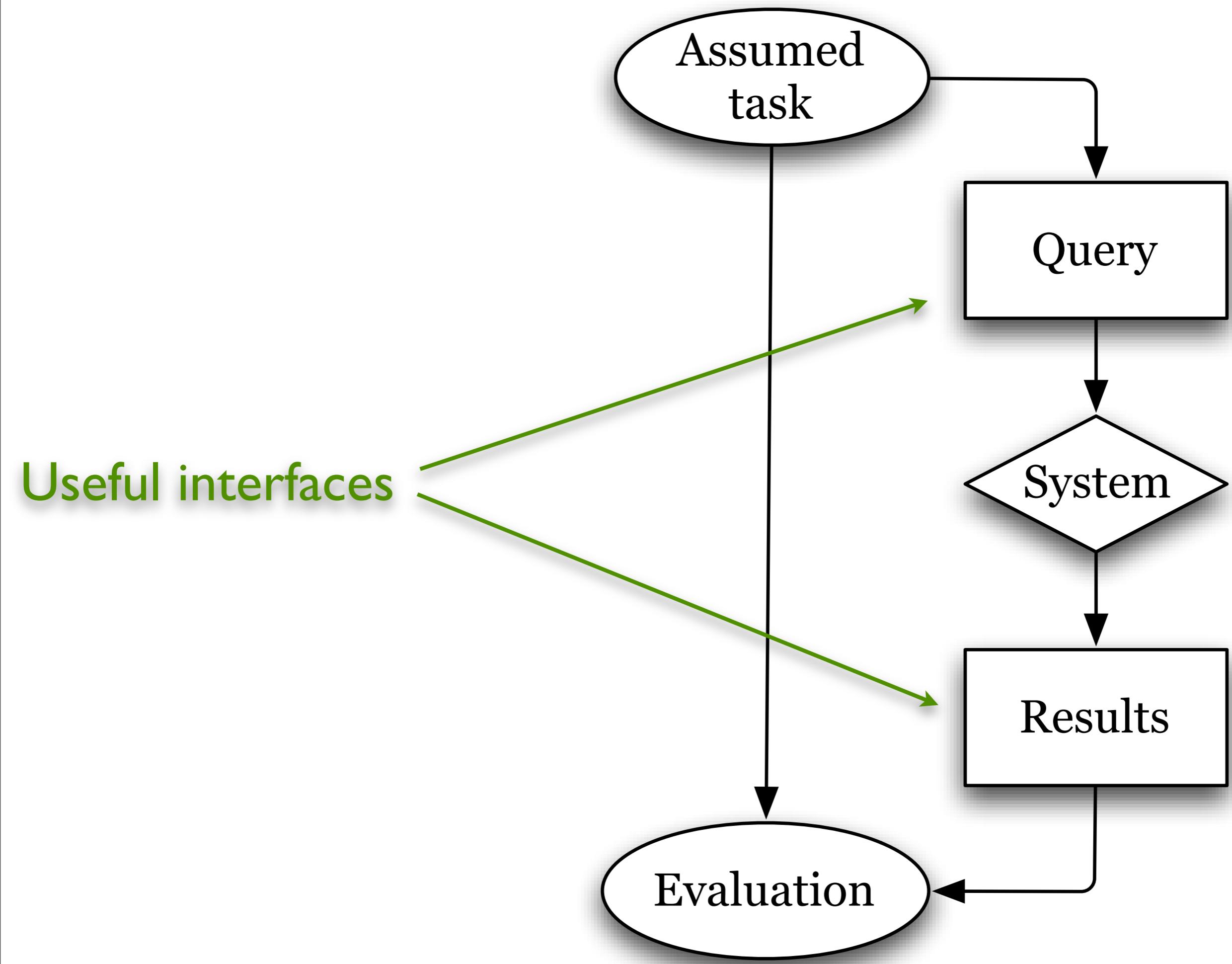
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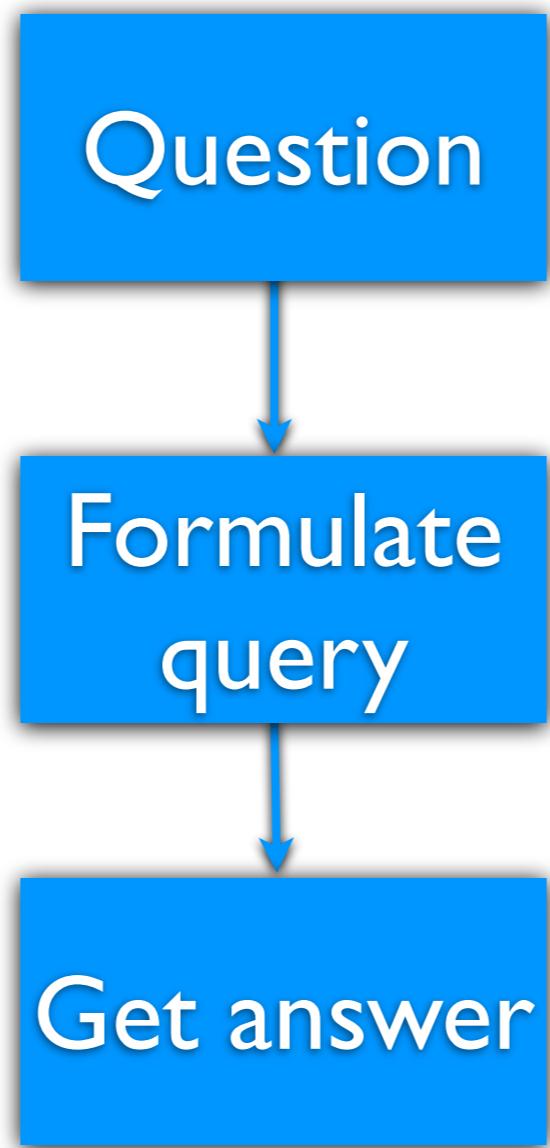
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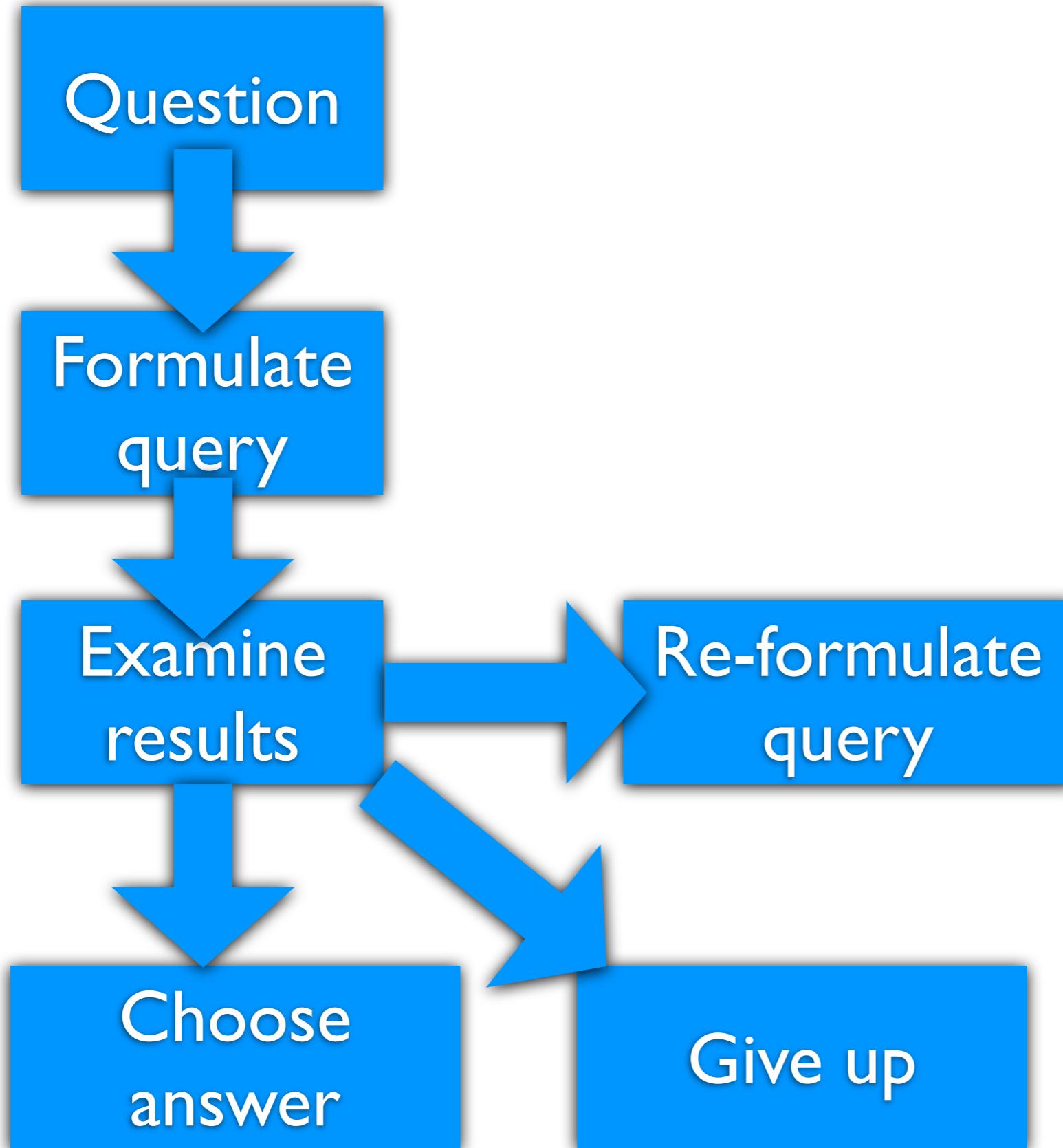
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Search
is
iterative



Relevance feedback (RF)

Problem: users only type (short) queries

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Automated query expansion (AQE)

“apple”



“ computer macbook company ”

(Salton and Buckley 1990)

Interactive query expansion (IQE)

“apple”

apple - Google Search

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By Paul Sakuma, AP By Steve Kolowich, Inside Higher Ed Apple's new iPad computing tablet may have hit a few snags in its introduction to the college market. ... USA Today - 206 related articles x

It's time to add Apple to the Dow - CNNMoney - 54 related articles x
Apple is not going to buy us says ARM - Inquirer - 144 related articles x

Local business results for apple near Brussels ... Choose location



Relevance Feedback (RF)

- Difficulty formulating queries (finding good words)
- Ability to say what's relevant
- Looking for lots of pages

Does it work?

- Limited success
- Useful for more difficult queries (Fowkes and Beulieu 2000)
- (Have you ever seen it?)

IQE

- *potential* works well, *actual* works poorly
 - sometimes better, often worse!
- Users can't often recognize good terms

Ian Ruthven. Re-examining the potential effectiveness of interactive query expansion. SIGIR 2003

Query	Term 1	Term 2	Term 3
Apple	computer	fruit	company
Zymurgy	wort	mash tun	autolysis

Terms are not useful if the user is unfamiliar with the topic!

Thesaurus term suggestion

- Terms are recommended based on being synonyms to query terms
- Pros: less reliant on documents
- Cons
 - Slow to adapt
 - Synonyms require context (apple | fruit)

Pseudo-relevance Feedback (PRF)

- take top N documents and use them as relevant documents
- draw terms from these

Examination

- Bad query
 - Makes **worse** query!
- Medium query
 - does it get better, or worse?

“apple”



Examination

- Bad query
 - Makes **worse** query!
- Medium query
 - does it get better, or worse? (**worse**)
- Good query
 - Could get better
 - Could get worse (e.g., when *diversity* is important)
 - Is it necessary?

Example

- System A
 - P@5 is 100%, but top N documents are all the same
- System B
 - P@5 is 40%, but documents are different

Example

- If “relevant” documents are all similar, System A may get better R/P, even though they are redundant!
- Looks great on paper, but doesn’t really work

Considering problems in
terms of R@N and P@N
can lead to bad designs!

Implicit feedback

Theory: users are too lazy
to evaluate results

Implicit indicators

- Direct
 - bookmark
 - print
 - saving
 - clicking

Implicit indicators

- Indirect
 - scrolling
 - reading time
 - repeat visit

Example

Time	Action	Object
0.00	search	“apple”
0.01	click	result 1
0.05	click	result 2
5.08	click	result 3
3.08	click	result 4

Implicit indicators

- Indirect
 - scrolling
 - reading time
 - time between visits can fail
 - repeat visit

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http://www.google.be/ apple

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In a piece posted Monday, Yahoo News' John Cook comes close to accusing **Apple** — and indeed, Steve Jobs himself — of launching the investigation based on the ...
[Telegraph.co.uk](#) [Fortune](#) - 763 related articles »

[Welcome to the Apple Store - Apple Store \(U.S.\)](#) ☆



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Apple Inc.

From Wikipedia, the free encyclopedia

This article is about the computer company. For the multimedia corporation founded by The Beatles, see [Apple Corps](#). For other companies also named Apple, see [Apple \(disambiguation\)](#).

Apple Inc. is an American multinational corporation that designs and manufactures consumer electronics, computer software, and personal computers. The company's best-known hardware products include [Macintosh](#) computers, the [iPod](#), the [iPhone](#) and the [iPad](#). Apple software includes the [Mac OS X](#) operating system; the [iTunes](#) media browser; the [iLife](#) suite of multimedia and creativity software; the [iWork](#) suite of productivity software; [Aperture](#), a professional photography package; [Final Cut Studio](#), a suite of professional audio and film-industry software products; and [Logic Studio](#), a suite of audio tools. As of January 2010 the company operates 284 retail stores^[2] in ten countries,^[6] and an [online store](#) where hardware and software products are sold. As of 2010, it is one of the largest technological corporations in the world by revenue.

Established in [Cupertino, California](#) on April 1, 1976 and incorporated

Apple Inc.



Type	Public (NASDAQ: AAPL [5] , LSE: OHDR [5] , FWB: APC [5])
Industry	Computer hardware · Computer software Consumer electronics · Digital distribution
Predecessor	Apple Computer, Inc.
Founded	Cupertino, California, United States (April 1, 1975)
Founder(s)	Steve Jobs, Steve Wozniak, Ronald Wayne ^[1]
Headquarters	1 Infinite Loop, Cupertino, California, United States
Number of locations	284 ^[2] (January 2010)
Area served	Worldwide; United States, United Kingdom, Canada, Japan, Australia, India, Mexico, Switzerland, France, Italy, Germany, and China
Key people	Steve Jobs (CEO and Chairman) Tim Cook (COO) Peter Oppenheimer (CFO) Phil Schiller (SVP, Marketing)

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Apple

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This article is about the fruit. For other uses, see [Apple \(disambiguation\)](#).

The **apple** is the pomaceous fruit of the apple tree, species *Malus domestica* in the rose family *Rosaceae*. It is one of the most widely cultivated tree fruits.

The tree originated in Central Asia, where its wild ancestor is still found today. There are more than 7,500 known cultivars of apples resulting in a range of desired characteristics. Cultivars vary in their [yield](#) and the ultimate size of the tree, even when grown on the same rootstock.^[2]

At least 55 million tons of apples were grown worldwide in 2005, with a value of about \$10 billion. [China](#) produced about 35% of this total.^[3] The [United States](#) is the second leading producer, with more than 7.5% of world production. [Iran](#) is third, followed by [Turkey](#), [Russia](#), [Italy](#) and [India](#).

Contents [hide]

- 1 Botanical information
 - 1.1 Wild ancestors
- 2 History
- 3 Cultural aspects
 - 3.1 Germanic paganism
 - 3.2 Greek mythology
 - 3.3 Bibliography
- 4 Apple cultivars
- 5 Apple production
 - 5.1 Apple breeding
 - 5.2 Apple Rootstocks
 - 5.3 Pollination

Blossoms, fruits, and leaves of the apple tree (*Malus domestica*)

Scientific classification

Kingdom: Plantae
Division: Magnoliophyta
Class: Magnoliopsida
Order: Rosales
Family: Rosaceae
Subfamily: Maloideae or Spiraeoideae^[1]
Tribe: Maleae
Genus: *Malus*

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Key people	Steve Jobs (CEO and Chairman) Tim Cook (COO) Peter Oppenheimer (CFO) Phil Schiller (SVP, Marketing)

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Implicit indicators

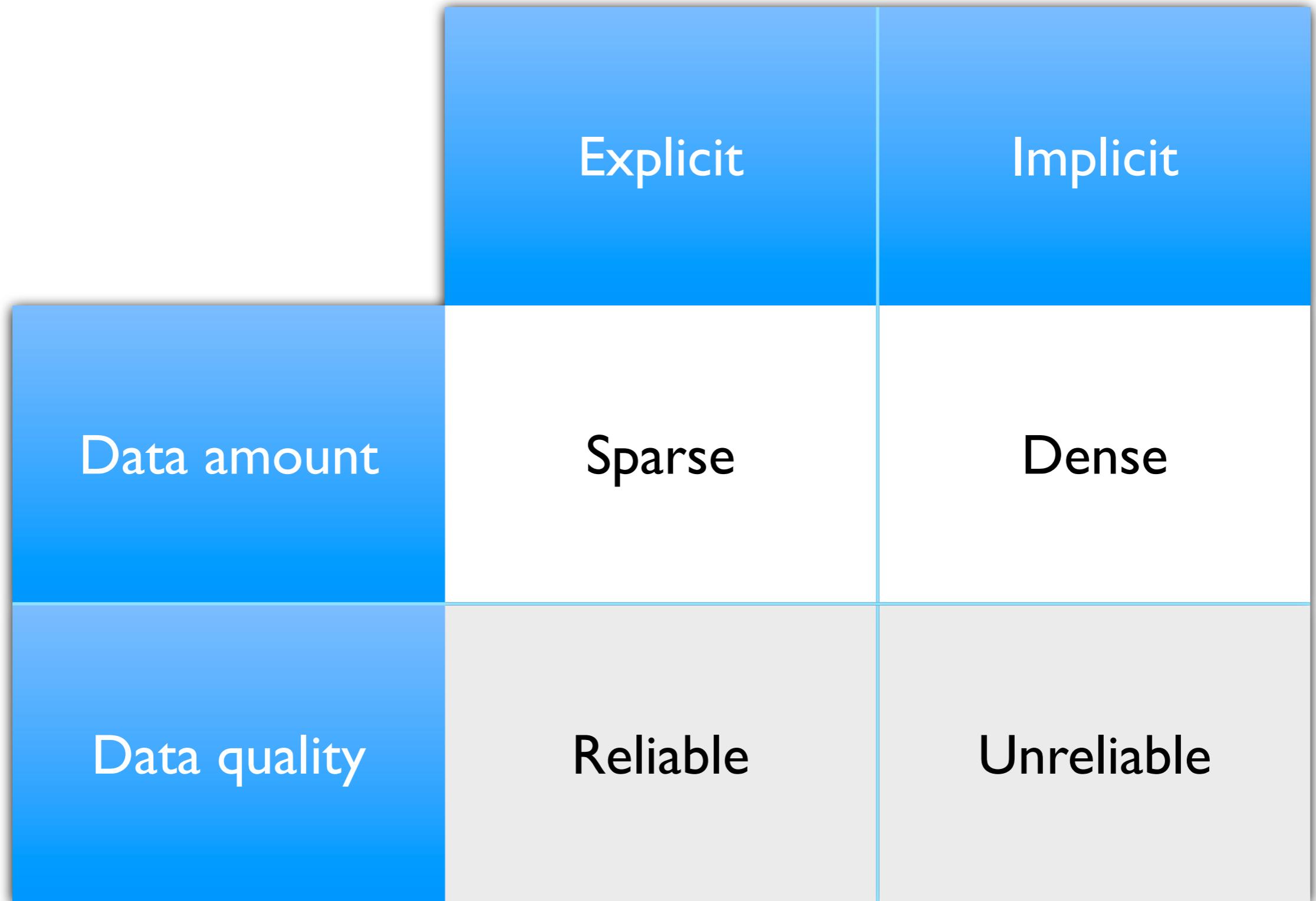
- Indirect
 - scrolling
 - searching for something in the page they don't find?
 - reading time
 - time between visits can fail
 - repeat visit

How good?

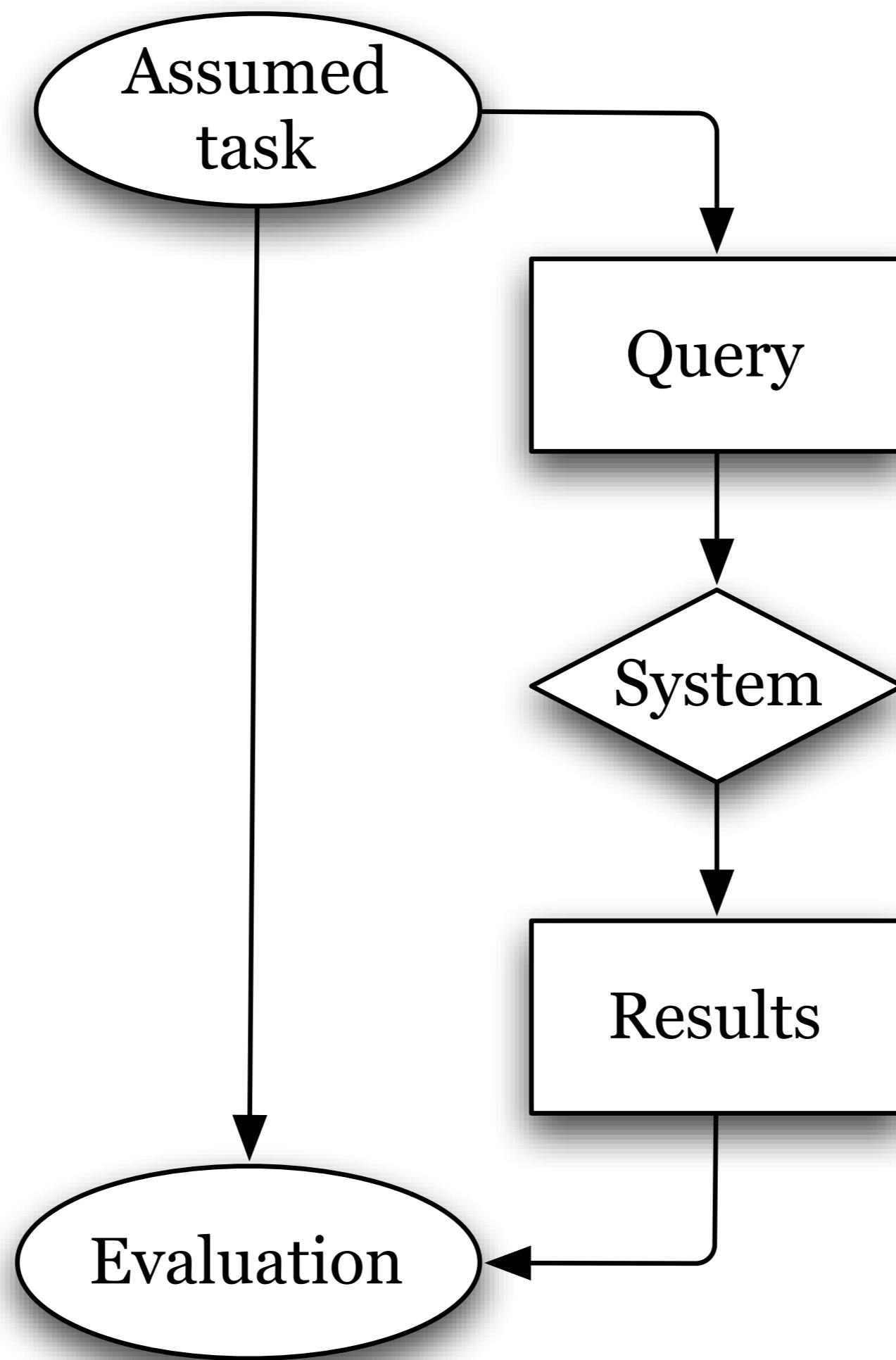
- Connection between interest, reading time, scrolling (Claypool 2001)
- Relevance and reading time (White et al. 2002)
- No correlation (Kelly and Belkin 2003)
 - more realistic study
- Is it *personal?* *Task-dependent?* *Relative*
 - How will we know when to use?

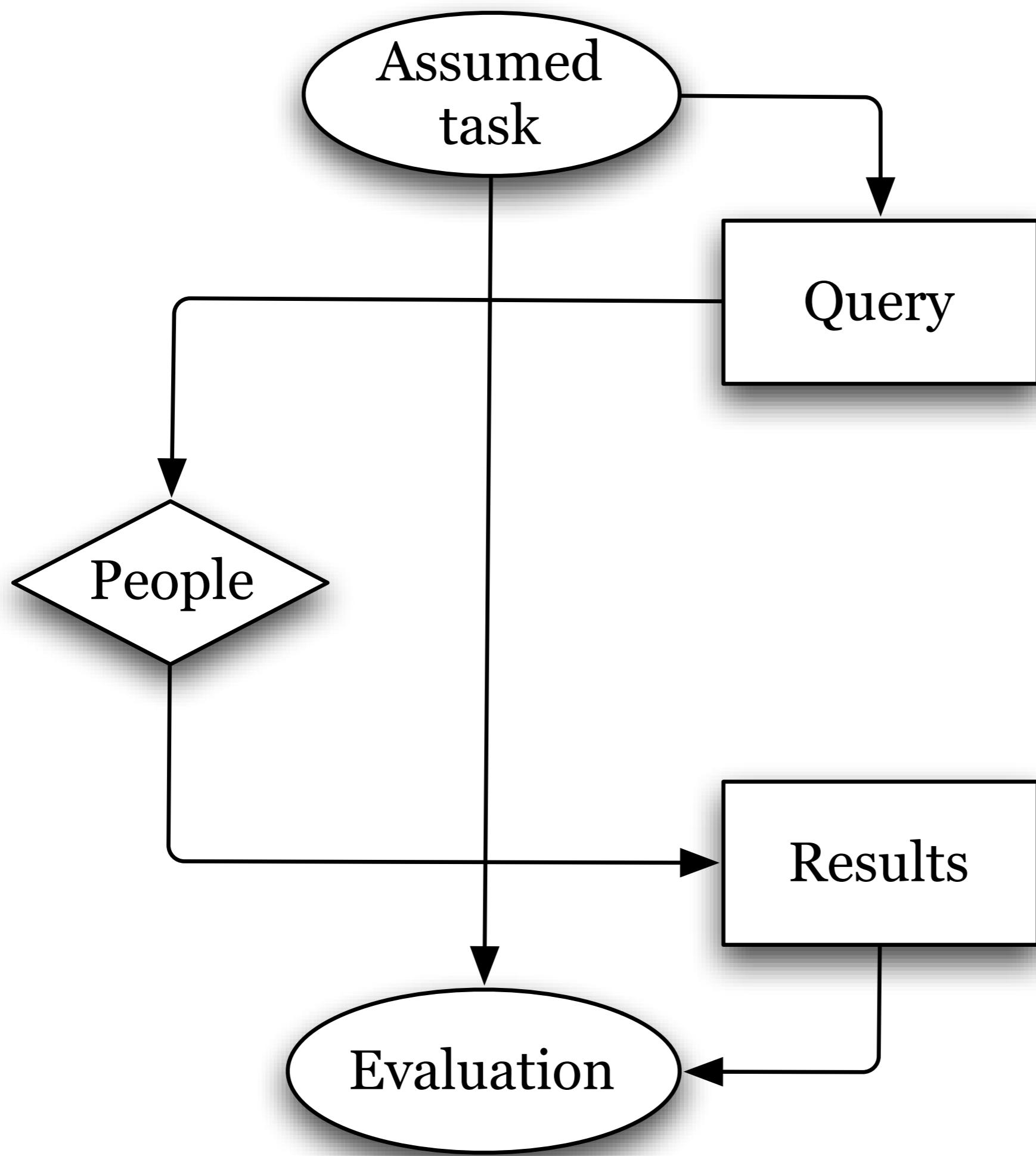
Overall

- May not suffice to make real predictions
- More work is needed!



Social Search





Social search

- Most IR is strictly system based, i.e. what system thinks is relevant
- Social search involves using people's assessments to help find information

Popular destination

(White, Bilenko, Cucerzan. Studying the use of popular destinations to enhance web search interaction. SIGIR 2007)

- People issue queries, system generates results, people select results
- Bypass system: figure out what people click on, and show them those results

Using other users' saved-pages

- Use **del.icio.us** to find popular pages
- Combine ranking with del.icio.us rankings for *hybrid* approach

Yanbe, Y., Jatowt, A., Nakamura, S. and Tanaka, K. (2007) Can Social Bookmarking Enhance Search in the Web?, Proceedings of the 7th ACM/IEEE-CS Joint Conference on Digital Libraries, 107 – 116.

Search results for hello world on Delicious

<http://www.delicious.com/search?p=hello+world&chk=&> RSS

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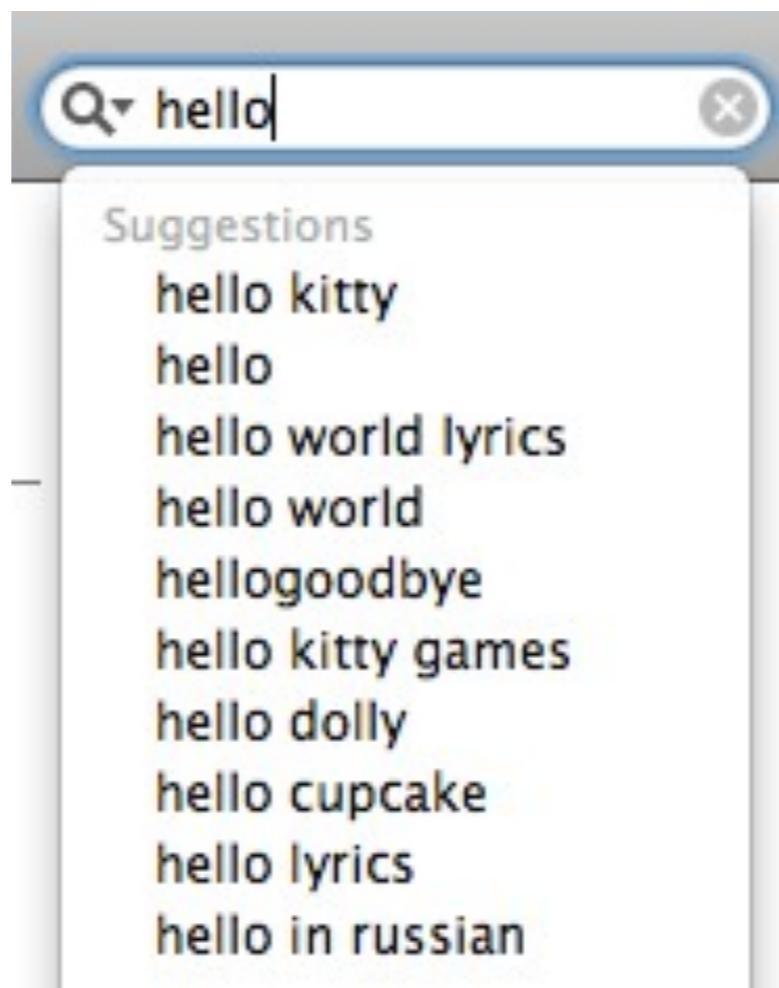
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5444

Google suggest

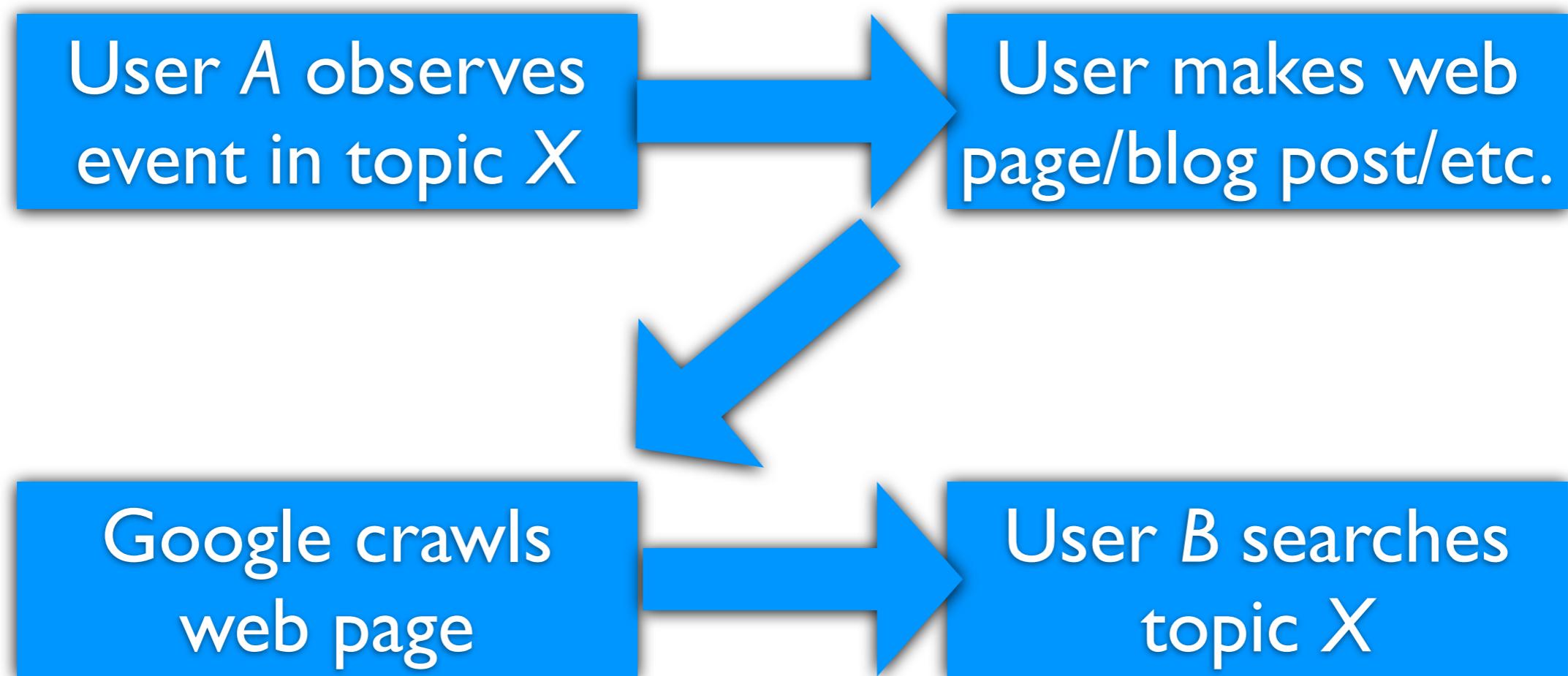
Automated query suggestions based on
queries that *other people* have issued







Usual information-to-world cycle



twitter search

- Search what people are saying *right now*
- Some advantages:
 - People will tweet about things they won't make web pages about
 - Results are instant and have temporal context (i.e., #gmail trending because of outage)
 - Ability to visualize live trends

Example: recency

- Problems
 - Recent documents have few in-links for PageRank, etc.
 - Search engines may have not crawled/updated indexes yet
 - Promote URLs from twitter based on some features

Disadvantages

- Hard to filter by quality/relevance
- Not much text (reduces to simple keyword matching)
- Lots of spam, personal messages
- Can use retweets and/or network

Example: recency

- Approach: promote URLs appearing on Twitter
 - Frequently shared
 - Shared by credible users

(Dong et al. Time is of the Essence: Improving Recency Ranking Using Twitter Data. WWW 2010.)

Personalization

Different people should get different results

New information
Old Information

New information

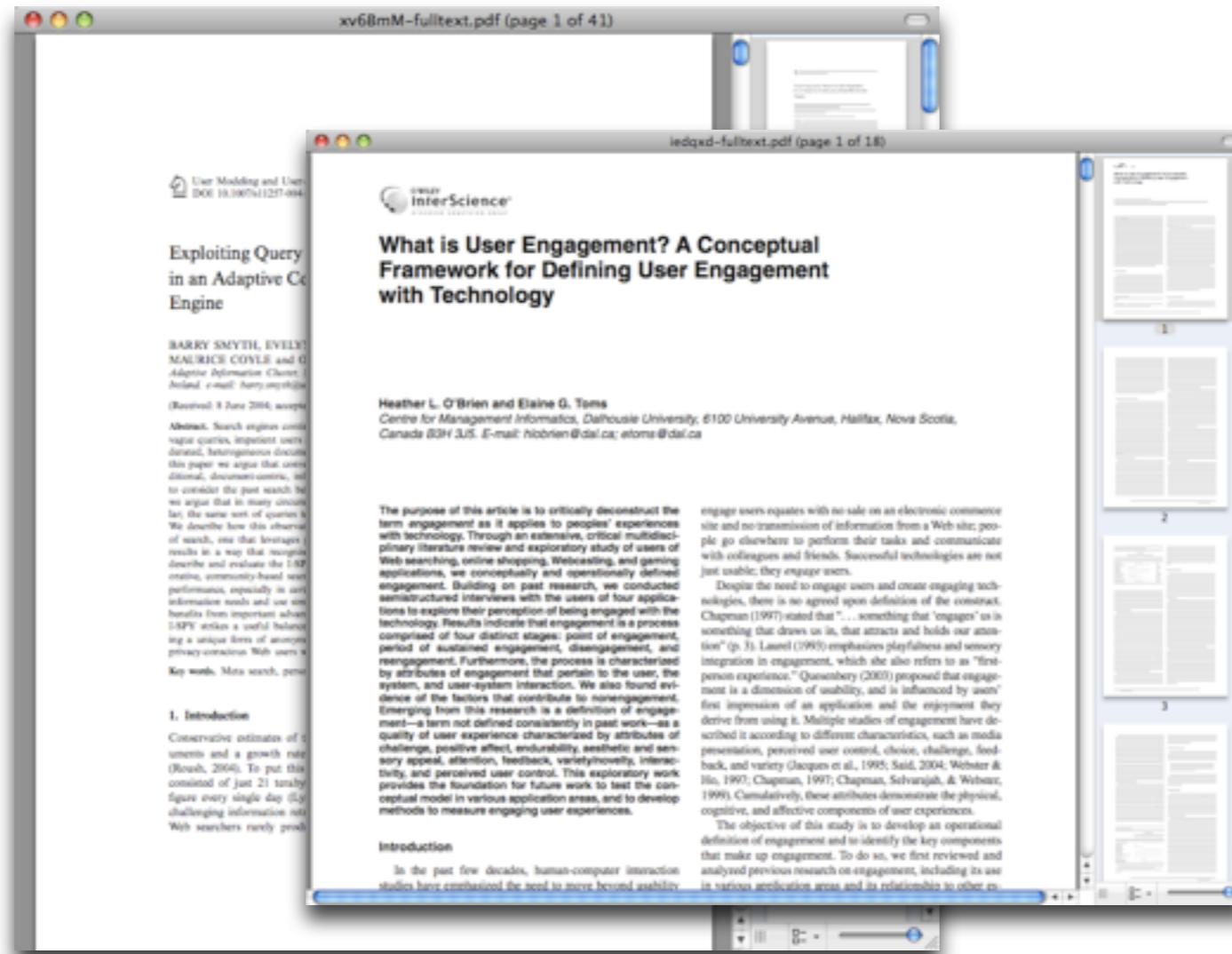


“apple”



Personalizable qualities

- age
- gender
- experience with search
- knowledge about subject
- interest



“apple”

“apple computer data usability”

Customize search results

- Profile building (Chirita et al. 2006)
 - capture user's desktop documents, make clusters
 - on web queries, find clusters which contain those terms
- expand query with top terms from clusters

Personalized documents as RF

- Use documents (e.g., web pages, MS word, etc) as *feedback documents*
- Queries are automatically expanded using relevant documents

Location

pizza - Google Maps

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Google maps Belgium

pizza

La Lumaca, Tiensesteenweg 115, 3010 Kessel-Lo - pizza
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Arnould Nobelstraat 5, 3000 Leuven - 016 23 29 02
2 reviews
"Lekkere pizza voor een fantastische prijs, wanneer je bereid bent de pizza ..."

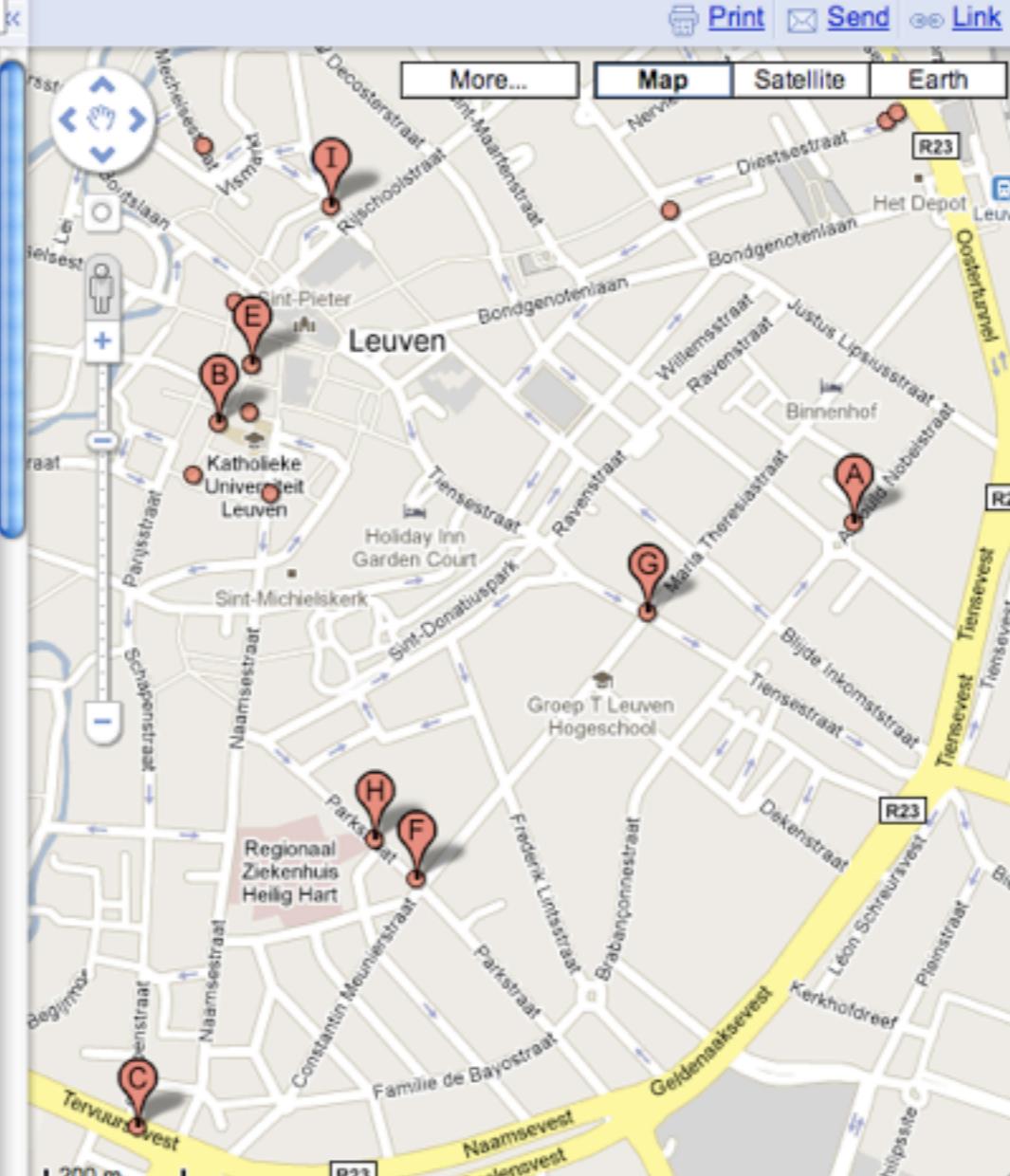
B [Pizza Hut](#) [more info »](#)
Oude Markt 7, 3000 Leuven - 016 22 94 22

C [Pizza Hut Naamse Poort](#) [more info »](#)

Tervuursevest 10, 3000 Leuven - 016 29 11 15

D [Aurora \('L\)](#) [more info »](#)
Brusselsestraat 204, 3000 Leuven - 016 29 47 90
Category: Pizza Restaurants
3 reviews
"An informal lively atmosphere. pizzas are good, tasty and plenty of ..."

E [O Sole Mio](#) [more info »](#)
Kortestraat 5, 3000 Leuven - 016 29 93 59
Category: Pizza Restaurants



The map shows the city center of Leuven with various streets labeled. Nine red location markers are placed on the map, corresponding to the listed pizza places: A (Maria Theresiastraat), B (Oude Markt), C (Tervuursevest), D (Brusselsestraat), E (Kortestraat), F (Constantin Meunierstraat), G (Naamsevest), H (Regionaal Ziekenhuis Heilig Hart area), and I (Rischoolstraat). The map also features a compass rose, a scale bar (200 m), and various landmarks like the Sint-Michielskerk and Holiday Inn Garden Court.

Problems in personalization?

- Is a common view of the web important?
- [Imgtfy.com](#)

Old information

Re-finding is separate task from finding new
information

	New information	Re-finding
Query	Think of query to describe question	Think of terms contained in document
Results	Process and understand new information	Recognize or recall information

Re:Search Engine

- Hybrid scheme: don't try to only return previously seen
- Re-rank results that have dropped

Jaime Teevan. The Re:Search Engine: Simultaneous Support for Finding and Re-Finding. UIST '07

The image displays two side-by-side screenshots of a search results page from the Re:Search engine. Both screens show the same search query: "breast cancer treatments". The results are numbered 1-10 of 15,400,000.

Left Screen (Initial Results):

- First results are memorable:** A box highlights the first result, which is a link to the National Cancer Institute's page on breast cancer treatment. The text describes it as providing information about various treatment modalities for breast cancer, including surgery, chemotherapy, and radiation therapy. It also mentions "Understanding Breast Cancer Treatment: A Guide".
- National Cancer Institute - Breast Cancer Treatment:** A link to the official NCI site for breast cancer treatment.
- Breast Cancer Treatment Options Alternative:** A link to a page on alternative treatments for breast cancer.
- Some results are forgotten:** A box highlights the fourth result, which is a link to "Ivanhoe's Medical Breakthroughs - Help for Breast Cancer Side Effects".
- Treatments for Breast Cancer:** A link to a page on treatments for breast cancer.
- Clicked results are memorable:** A box highlights the fifth result, which is a link to "Ivanhoe's Medical Breakthroughs - Help for Breast Cancer Side Effects".
- Ivanhoe's Medical Breakthroughs - Help for Breast Cancer Side Effects:** A link to a page on side effects of breast cancer treatments.

Right Screen (Results after Clicking 'Some results are forgotten'):

- New, better results can be included:** A box highlights the second result, which is a link to the National Cancer Institute's page on understanding breast cancer treatment. It describes it as providing information about breast cancer diagnosis, staging, and treatment, and discusses various treatment modalities.
- Treatments for Breast Cancer:** A link to a page on treatments for breast cancer.
- Memory of rank is imperfect:** A box highlights the third result, which is a link to a page on hormone therapy for breast cancer. It describes hormonal therapies and their effectiveness.
- Hormone therapy treatment for breast cancer:** A link to a page on hormone therapy for breast cancer.
- Radiation Treatments for Breast Cancer:** A link to a page on radiation treatments for breast cancer.

Stuff I've Seen

The screenshot shows the 'Stuff I've Seen' application window. At the top, there's a menu bar with File, View, Options..., Help. Below the menu is a search bar containing 'perception' with a Go button and Fuzzy Match dropdown. A 'Clear All' button is also present. The main area displays 764 rows returned. It has a header row with columns: Document, Date, Rank, Author, and Mail To. The 'Document' column lists various items like 'gestalt psychology', 'Visual Perception', 'CogSci/CogEng position', 'TOC of Perception, Volume 31, SU...', 'rademach', 'RE: Indexing usability studies', and 'lwCsubmission.doc'. The 'Date' column shows dates such as '9/22/2002 4:42 PM', '9/22/2002 4:27 PM', '9/20/2002 5:24 AM', '9/19/2002 9:25 PM', '9/19/2002 4:32 PM', '9/13/2002 9:55 AM', and '9/12/2002 6:21 PM'. The 'Rank' column shows values like 890, 934, 645, 910, 879, 760, and 591. The 'Author' column includes names like Irving Rock, Wolfgang Köhler, Tyrone Slothrop, Mucho Maas, Christine Toblerone, Oedip Maas, First Mate Gilligan, and Dodepa Maas. The 'Mail To' column contains dropdown menus. On the left, there's a sidebar with filters for Document type (All 764, Web Pages 66, Outlook 366, Files 332), Date (Today 2, Yesterday 0, Last 7 days 5, Last 30 days 9, Older than 30 days 748), and a 'Today' section showing a snippet of the 'gestalt psychology' entry.

Dumais et al. Stuff I've seen: a system for personal information retrieval and re-use. SIGIR 2003

Google Desktop

Thu Jun 28, 8:02 PM

File Edit View Go Bookmarks Tools Help

http://127.0.0.1:33799/status?hl=en_US&s=Him65dGOIGNdg6Im8ycGSIZqDh8

Gmail - Inbox (1400) - Inbox (758) Google Desktop Index Status

Google Desktop BETA Web Images Video News Maps Desktop more »

Search Desktop Preferences Advanced Search

Index Status

One-time index update in progress.

10.4% complete with about 5.2 idle hours left. 5,385 items indexed so far.

Number of items	Time of newest item
Total searchable items	5,385 20:02
Gmail	0 -
Emails	4,127 20:02
Web history	0 -
Files	1,142 20:00
Media	116 19:46

Search Done

root@kuli:~ Google Desktop Index St:

Google Desktop

Web Images Groups News Froogle Local Desktop more »

san diego vacation Search Desktop Preferences Browse Timeline

Desktop: All - 4 emails - 5 files - 3 web history - 0 chats - 0 other 1-10 of about 12 (0.11s)

[Remove from Index](#) | [Sort by relevance](#) Sorted by date

Going on vacation!
I'm going on vacation to San Diego! I'll be back on August 5th, so let me know if you want me to bring you back anything. I'm really excited, I can't wait. See you soon, Charles
James Martin - 2 messages - 10:35am

San Diego Vacation planning
San Diego Vacation planning Page 1 San Diego Vacation planning -Go to LegoLand -Hit the beach -Swim at the hotel pool -Go to great restaurants -Go to SeaWorld -Sleep Sight see My Documents\San Diego Vacation planning.pdf - Open folder - 1 cached - Feb 22

san diego.jpg
320 x 198 pixels, 15k
My Documents\san_diego.jpg - Open folder - Feb 22

San Diego Hotels .com
San Diego Hotels .com about us help contact us San Diego Hotels -find the perfect hotel for your stay in San Diego! Find the perfect hotel for your www.sandieghohotels.com/ - 1 cached - 11:02am

"mark prince: When I'm in San Diego I'll visit....
I'm excited about my vacation in San Diego. I'll make sure to hit all the cool spots. Do you have any hotel recommendations?

Phlat (Cutrell et al. 2006)

The screenshot shows the Phlat application window. The menu bar includes File, Edit, View, Tools, Help, and a Go button. A toolbar has Back, Forward, Clear, and Go buttons. The search bar shows '107 results'. The main area displays search results for 'bike'.

Within the last year

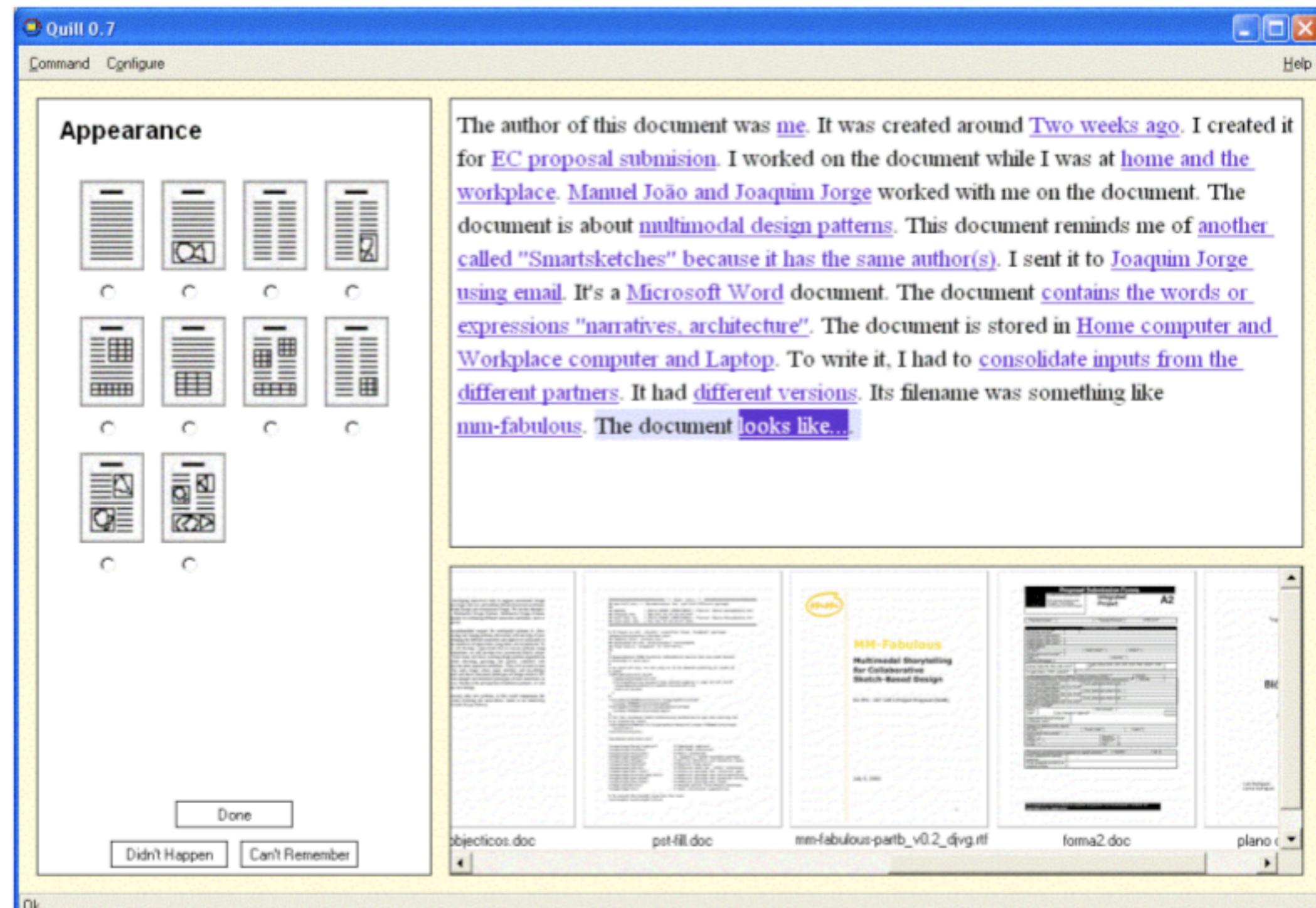
- Pedal the Pinchot July 16ht 07.05.2005 10:05:0... Cal Tjader Willie Bobo
Yes, definitely SOMETHING. I think this is twice in a row now that I've had dinner with without actually riding with him. —Original Message—
Path: /Mailbox
Tags: "Personal\Bikes"
- Pedal the Pinchot July 16ht 07.05.2005 9:56:00... Willie Bobo Cal Tjader
Well, we should do SOMETHING that weekend. We could join the event (sounds LONG), but it would be a very different kind of ride. Not so much isolation, but the support wouldn't be a bad thing. We...
Path: /AutoArchive2003/Sent Items
Tags: "Personal\Bikes";"Personal\Friends";"Personal"
- Pedal the Pinchot July 16ht 07.05.2005 9:48:20... Cal Tjader Willie Bobo
Well, the good part would be that the route finding would be easy and they might provide food—assuming we joined the event. Should we reschedule? Bah. —Original Message—
Path: /Mailbox
Tags: "Personal\Bikes"

Show more results (57)

More than a year ago

- Moran State Park Spetember Ride 08.11.2004 9:47:50... Hugh Masekela Willie Bobo
I sure hope I can get my bike fixed sooner than that! Gah. Yeah, I'm up for it if you're not out of town. How soon will you figure that out. Maybe we should just sign up. —Original Message—
Path: / d's Archive 1/2004 Inbox
Tags: "Personal\Bikes";"Personal"
- Bye... 08.06.2004 4:42:27... Jimmy Smith Willie Bobo
Inconh has been mumbbling something about mtb'ing for a year or two; it'd be fun to take him

Quill (Goncalves & Jorge 2008)



Social search: summary

- Can augment traditional system-based search
- Personalization:
 - Find new information based on profiles
 - Find old information by helping users recall key aspects of document

Conclusion

Task	Batch IR	Interactive IR
Searching	Simple, batch	Complex, iterative
Task	Acquire many “relevant” documents	Many
Goal	High recall/precision	User finds answer
Evaluation	automated	hands-on, expensive
Evaluation metrics	recall, precision, MAP, etc	User satisfaction, answer found
Relevance	yes/no	yes, no, sort of, maybe, contextual
Interface(s)	none	carefully considered

Conclusions

- IIR is a difficult topic
- Batch IR is not evil
 - It is important, but we must be careful and critical about the lessons we draw from it
- Many problems not yet solved
 - We need more ideas