

SIT772 Database and Information Retrieval

Assignment-2

Name: Shantanu Gupta

Student ID: 218200234

Q1:

a)

Documents after removing the stop words are:

Doc 1 : Information retrieval activity obtaining information resources relevant information need collection information resources Searches based full text other content based indexing

Doc 2 : Information retrieval finding material unstructured nature satisfies information need large collections

Doc 3 : Information systems study complementary networks hardware software people organizations collect filter process create distribute data

Applying Porter stemming algorithm to the above mentioned documents

Index	Words	Measure	Step 1a	Step 1b	Clean up	Step 1c	Step 2	Step 3	Step 4	Step 5a	Step 5b	Final Word	Docs
1	Information	4					informate		inform			inform	1,2,3
2	retrieval	3							retriev			retriev	1,2
3	activity	3				activiti	active			activ		activ	1
4	obtaining	3		obtain	obtain							obtain	1
5	resources	3	resource							resourc		resourc	1
6	relevant	3							relev			relev	1
7	need	1		need	need							need	1,2
8	collect	2										collect	3
9	collections	3	collection						collect			collect	2
10	collection	3							collect			collect	1
11	Searches	2	searche							search		search	1
12	based	2		bas	base					base		base	1
13	full	1									full	full	1
14	text	1										text	1
15	other	2							other			other	1
16	content	2							content			content	1
17	indexing	3		index	index							index	1
18	finding	2		find	find							find	2
19	material	3							materi			materi	2
20	unstructured	4		unstructur	unstructure					unstructur		unstructur	2
21	nature	2								natur		natur	2
22	satisfies	3	satisfi									satisfi	2
23	large	1								larg		larg	2
24	systems	1	system									system	3
25	study	1				studi						studi	3
26	complementary	4				complementari						complementari	3
27	networks	2	network									network	3
28	hardware	2								hardwar		hardwar	3
29	software	2								softwar		softwar	3
30	people	1								peopl		peopl	3
31	organizations	5	organization		organization		organize		organ			organ	3
32	filter	2										filter	3
33	process	2	process		process							process	3
34	create	1								creat		creat	3
35	distribute	3								distribut		distribut	3
36	data	1										data	3

b)

Step 1	
Term	Doc #
active	1
base	1
base	1
collect	1
content	1
full	1
index	1
inform	1
inform	1
inform	1
inform	1
need	1
obtain	1
other	1
relev	1
resourc	1
resourc	1
retriev	1
search	1
text	1
collect	2
find	2
inform	2
inform	2
larg	2
materi	2
natur	2
need	2
retriev	2
satisfy	2
unstructur	2
collect	3
complementari	3
create	3
data	3
distribut	3
filter	3
hardwar	3
inform	3
network	3
organ	3
peopl	3
process	3
softwar	3
studi	3
system	3

Step 2	
Term	Doc #
active	1
base	1
base	1
collect	1
collect	2
collect	3
complementari	3
content	1
create	3
data	3
distribut	3
filter	3
find	2
full	1
hardwar	3
index	1
inform	1
inform	2
inform	3
larg	2
materi	2
natur	2
need	1
need	2
network	3
obtain	1
organ	3
other	1
people	3
process	3
relev	1
resource	1
resource	1
retriev	1
retriev	2
satisfy	2
search	1
software	3
studi	3
system	3
text	1
unstructur	2

Step 3		
Term	Doc #	Freq
activ	1	1
base	1	2
collect	3	1
collect	1	1
collect	2	1
complementari	3	1
content	1	1
creat	3	1
data	3	1
distribut	3	1
filter	3	1
find	2	1
full	1	1
hardwar	3	1
index	1	1
inform	1	4
inform	2	2
inform	3	1
larg	2	1
materi	2	1
natur	2	1
need	1	1
need	2	1
network	3	1
obtain	1	1
organ	3	1
other	1	1
peopl	3	1
process	3	1
relev	1	1
resourc	1	2
retriev	1	1
retriev	2	1
satisfi	2	1
search	1	1
softwar	3	1
studi	3	1
system	3	1
text	1	1
unstructur	2	1

c)

Dictionary File			Posting File	
Term	N docs	Total Freq	Doc #	Freq
activ	1	1	1	1
base	1	2	1	2
collect	3	3	3	1
complementari	1	1	1	1
content	1	1	2	1
creat	1	1	3	1
data	1	1	1	1
distribut	1	1	3	1
filter	1	1	3	1
find	1	1	3	1
full	1	1	3	1
hardwar	1	1	2	1
index	1	1	1	1
inform	3	7	3	1
larg	1	1	1	1
materi	1	1	1	4
natur	1	1	2	2
need	2	2	3	1
network	1	1	2	1
obtain	1	1	2	1
organ	1	1	2	1
other	1	1	1	1
peopl	1	1	2	1
process	1	1	3	1
relev	1	1	1	1
resourc	1	2	3	1
retriev	2	2	1	1
satisfi	1	1	3	1
search	1	1	3	1
softwar	1	1	1	1
studi	1	1	1	2
system	1	1	1	1
text	1	1	2	1
unstructur	1	1	2	1
			1	1
			3	1
			3	1
			3	1
			1	1
			2	1

d)

Information: Information has been stemmed and reduced to its original form 'inform'. The word information present in all three documents but with highest number of occurrence in Document 1. This means that first document is more relevant to our query than the other two documents.

Term	Doc #	Frequency
inform	1	4
inform	2	2
inform	3	1

System: The word system has been stemmed and reduced to its original form 'system' and is present in document number 3.

Term	Doc #	Frequency
system	3	1

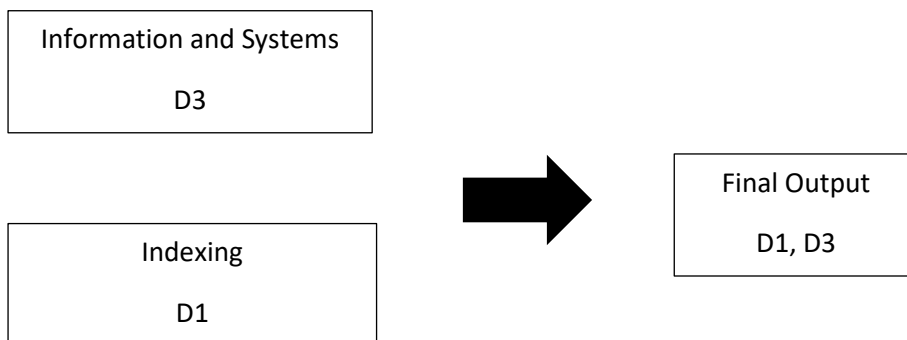
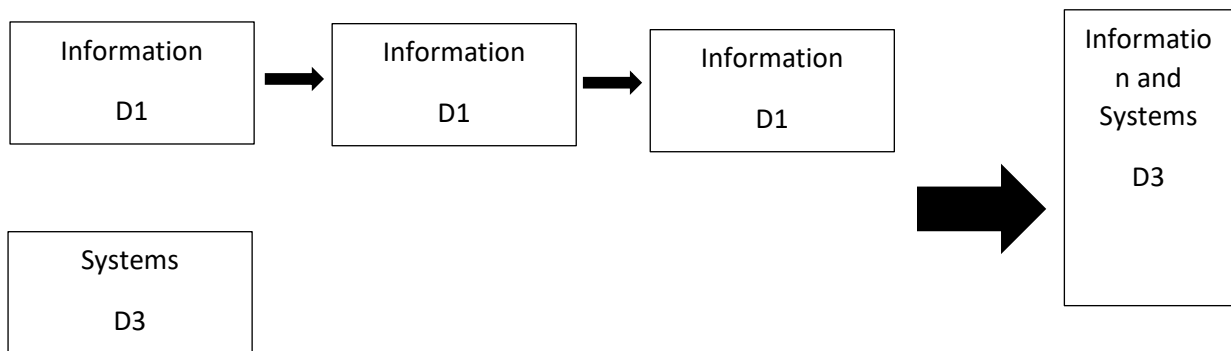
Index: The word indexing has been stemmed and reduced to its original form 'index' and is present in only one document out of the three documents.

Term	Doc #	Frequency
index	1	1

e)

Query1: (Information and Systems) or Indexing

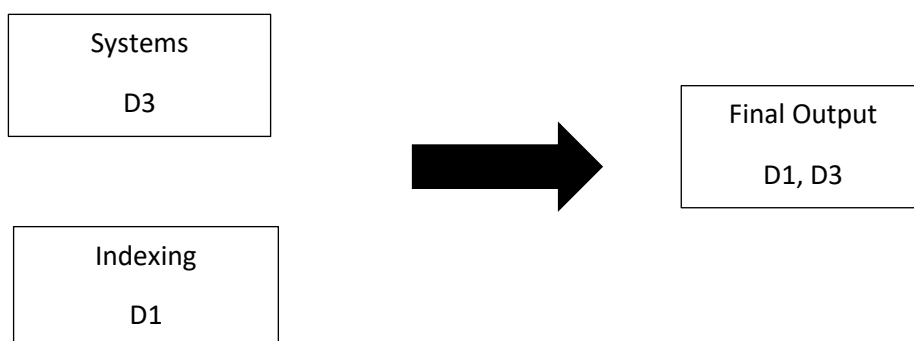
The user is finding a document which provides with the words (information and systems) or indexing.



The document one and three are the output for the query. The final output is D1, D3 as the words are present in both the documents.

Query2: Systems or Indexing

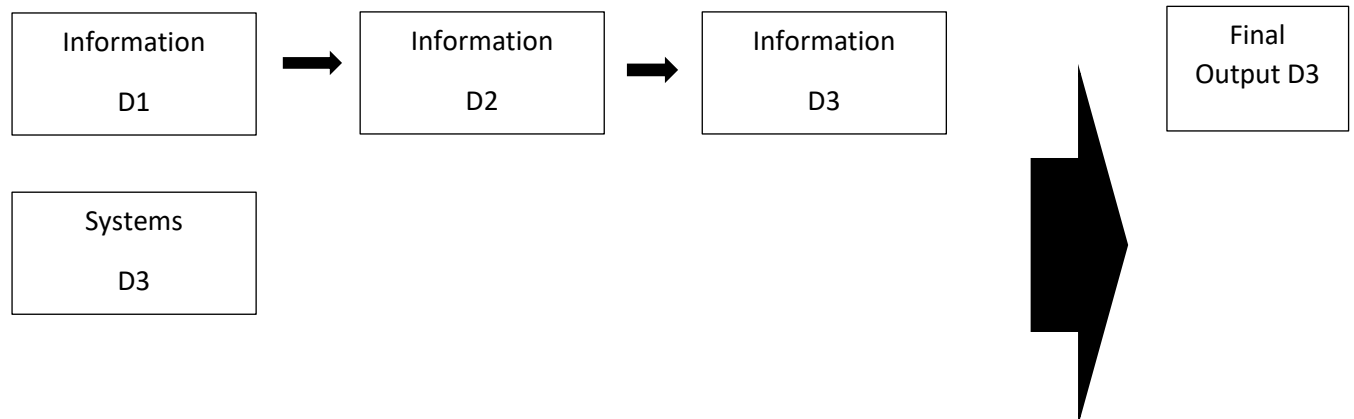
Both words systems and indexing are present only in one document. The query requires to find the words in the documents present with us.



The final output is D1, D3 as the words are present in both the documents.

Query3: Information and Systems

The word information is present in all three documents and the word systems is present in the document number 3. Our query is to find a document which contains both information and systems in it.



The final output is D3 which is document number 3 as the word information and system is present in these both documents.

f)

	Information	Systems	Indexing		TF,IDF	Information	Systems	Indexing
q1	3	1	1		Doc1	0	0	1.585
q2	0	1	1		Doc2	0	0	0
q3	3	1	0		Doc3	0	1.585	0
Doc1	4	0	1					
Doc2	2	0	0					
Doc3	1	1	0					
Terms	Information	Systems	Indexing					
IDF	0	1.585	1.585					

Query1: (Information and Systems) or Indexing

Sim(q1,Doc1)	0.43
Sim(q1,Doc2)	0.00
Sim(q1,Doc3)	0.43

From the cosine similarity present in the above table we can conclude that the most relevant document for the query 3 is document 1 and document 3. When compared with Boolean model we get the same documents (Doc 1 and Doc 3) as an output.

Query2: Systems or Indexing

Sim(q2,Doc1)	0.43
Sim(q2,Doc2)	0.00
Sim(q2,Doc3)	0.43

From the cosine similarity present in the above table we can conclude that the most relevant document for the query 2 is document 1 and document 3. When compared with Boolean model we get the same documents (Doc 1 and Doc 3) as an output.

Query3: Information and Systems

Sim(q3,Doc1)	0.00
Sim(q3,Doc2)	0.00
Sim(q3,Doc3)	0.279319

From the cosine similarity present in the above table we can conclude that the most relevant document for the query 1 is document 3. When compared with Boolean model we get the same document (Doc 3) as an output.

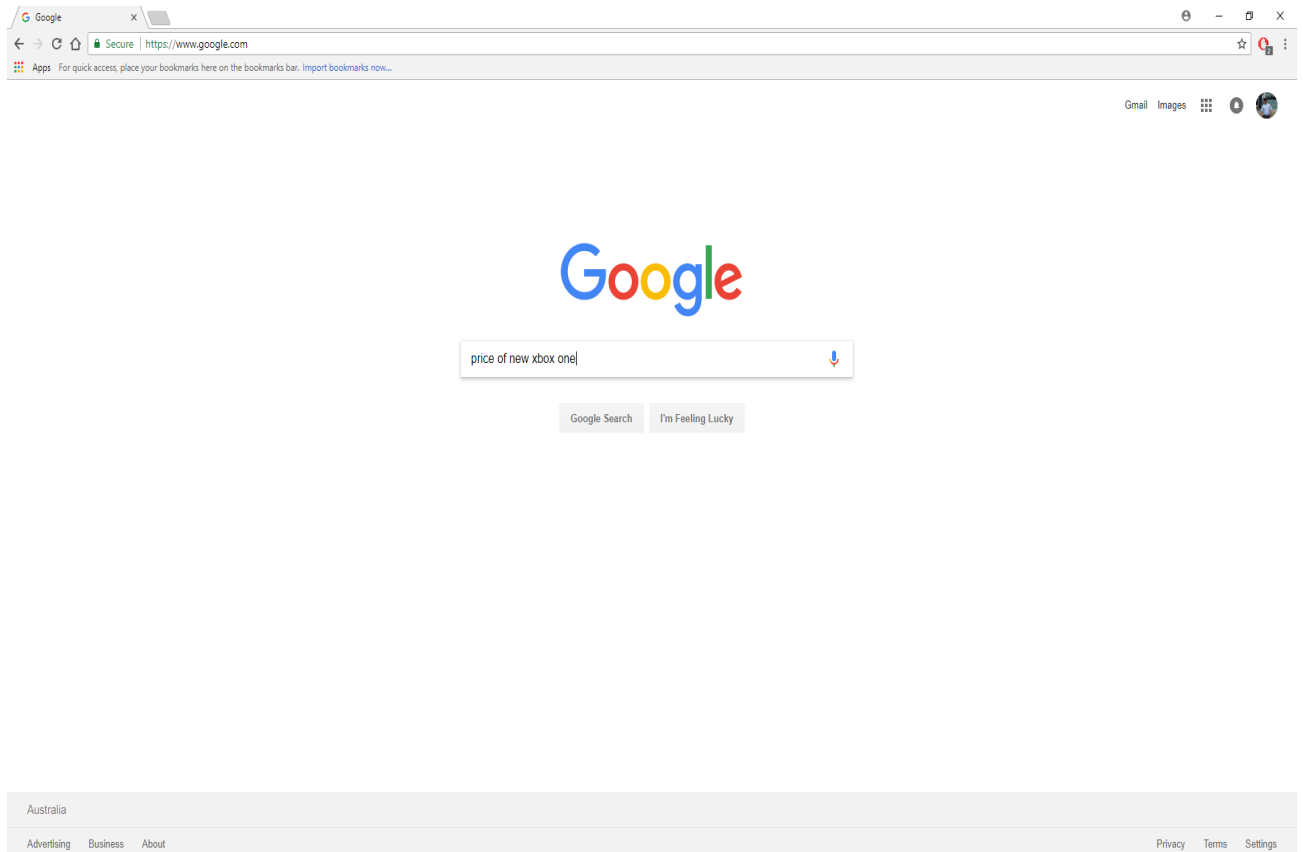
Q2:

Search Engine: Google

Target 5: obtain the price of new Xbox one.

a)

Query1: Price of new Xbox one



Xbox One - EB Games Australia

<https://ebgames.com.au/xbox-one> ▼

Mid Year Sale Half Price ... 1/6. Click here to see more! New Energizer Xbox One Dual Charger ... Plantronics RIGS 500HX Xbox Headset Sand Camo.

New Energizer Xbox One Dual ... · Xbox One Accessories · Preowned Xbox One

The best Xbox One S prices, bundles and sales in Australia (May 2018 ...

<https://www.techradar.com/news/the-best-australian-xbox-one-deals-this-month> ▼

May 9, 2018 - We've compared the best Xbox One prices and bundles the net has to ... but rest assured we're on the hunt for new bundles, so stay tuned!

The best Xbox One X prices, bundles and sales in Australia (May 2018 ...

<https://www.techradar.com/news/the-best-australian-xbox-one-x-deals-this-month> ▼

5 days ago - The Xbox One X will cost \$649 in Australia while the US will pay \$499.

The best price on Xbox One in Australia | finder.com.au

<https://www.finder.com.au> > Video Game Finder ▼

3 days ago - With the recent unveiling of the Xbox One X, the Xbox One S has seen some price drops recently. Still, searching for the best Xbox One deal in ...

People also search for



xbox one console big w	play station 4 prices
xbox one kmart	xbox one s price drop 2017
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Xbox One Packages At JB Hi-Fi Stores + All The Newest Games Out ...

<https://www.jbhifi.com.au/games-consoles/platforms/xboxone/> ▼

Xbox One. State of Decay 2 Ultimate Edition. XBOX ONE. New Release likely to have sold below ticketed/advertised price in stores prior to the discount offer.

Xbox One S | Xbox

<https://www.xbox.com/en-AU/xbox-one-s> ▼

Xbox One S has over 1300 games, built-in 4K Ultra HD Blu-ray™ and 4K video ... to over 100 highly-rated and fun games, with new ones being added all the time. ... it's yours to play on both Xbox One and Windows 10 PC at no additional cost.

xbox one console | Xbox | Gumtree Australia Free Local Classifieds

<https://www.gumtree.com.au> > Electronics & Computer > Video Games & Consoles ▼

Xbox One S 500gb Console - Brand New in box plus 4 games! \$320 ... XBOX ONE S 1TB minecraft version(NEW) Price is not negotiable Bundle includes: •.

Xbox | Target Australia

<https://www.target.com.au> > Entertainment ▼

Experience the greatest games lineup in Xbox history and join the best gaming community on Xbox One.

Xbox One Console Deals, Games & Accessories | The Gamesmen



<https://www.gamesmen.com.au/video-games/xbox-one>

May 9, 2017

Items 1 - 20 of 406 - **Xbox One S 1TB with Assassin's Creed: Origins + Rainbow Six Siege + Steep & The Crew Console Bundle** ...

Microsoft's Xbox One X price will start at \$499 - The Verge

<https://www.theverge.com/.../11/.../microsoft-xbox-one-x-price-specs-announced-e3-...> ▼

Jun 11, 2017 - Microsoft's Xbox One X price will start at \$499. Microsoft just unveiled its new console, the Xbox One X. Microsoft revealed its new Xbox One X console on stage at E3 earlier today, and now the company is announcing the price: \$499.

Page 2 of about 320,000,000 results (0.42 seconds)

Xbox One - Wikipedia

https://en.wikipedia.org/wiki/Xbox_One ▼

Xbox One is a line of eighth generation home video game consoles developed by Microsoft. The Kinect was the source of controversy due to the huge price of the system as a result of being bundled with the system. On June 9, 2014, Microsoft released a new **Xbox One** retail configuration that excludes the Kinect ...

Introductory price: US\$499/€499/£429/JP¥49,...

Manufacturer: [Flextronics](#), [Foxconn](#)

Generation: [Eighth generation](#)

Operating system: [Xbox One system software](#)

Xbox One - Best Buy

<https://www.bestbuy.com> › [Video Games](#) › [Xbox One](#) ▼

Shop for **Xbox One** consoles, controllers, video games, and accessories online at ... Find all your **Xbox One** needs and buy online for delivery or in-store pick-up. ... Meet Total Tech Support, a new membership Pre-order price guarantee.

Xbox One and Xbox One S Consoles, Games and Accessories ...

<https://www.microsoft.com/en-au/store/b/xbox> ▼

You'll always have something new to play with Xbox Game Pass. For one low monthly price, you get unlimited access to over one hundred **Xbox One** and Xbox ...

Xbox One | Entertainment | BIG W

<https://www.bigw.com.au/entertainment/video-games-consoles/xbox-one/.../6412110/> ▼

131 Products - Find the latest **Xbox One** products in Accessories, Consoles and Games at the lowest prices at BIG W.

Xbox One - GameStop

<https://www.gamestop.com/xbox-one> ▼

The new **Xbox One S** console also features 4K HDR video and gaming technology. And the new **Xbox One S** price is just \$299. Here at GameStop, we want to ...

How Much Does an Xbox One Cost? - MakeUseOf

<https://www.makeuseof.com> › [Gaming](#) ▼

Nov 28, 2017 - Looking to buy a new console and wondering how much an **Xbox One** costs? Here's the price you can expect to pay for every **Xbox One** model.

Xbox One S 500GB Consoles | eBay

<https://www.ebay.com.au> › ... › [Video Game Consoles](#) › [Xbox One S 500GB Consoles](#) ▼

Results 1 - 48 of 54 - **Xbox One S 500GB with 6 Games Console Bundle NEW. Xbox One S 500GB Console. 40% Smaller. 500GB of Storage. Stream 4K video on ...**

New Xbox One Deal Drops The Price Of The System Nicely - GameSpot

<https://www.gamespot.com/articles/new-xbox-one-deal...price-of.../1100-6456851/> ▼

Feb 18, 2018 - Microsoft temporarily cuts the price of various **Xbox One S** bundles.

Xbox One Consoles, Games, Controllers + Accessories - Walmart

<https://www.walmart.com/cp/xbox-one-consoles-games-accessories/1224908> ▼

Get your Xbox One for less at Walmart.com. We have everything for the Xbox One you could possibly need. Save money on games and accessories. Live better.

Buy Xbox One X 1TB Console | Harvey Norman AU

<https://www.harveynorman.com.au/xbox-one-x-1tb-console.html> ▼

★★★★★ Rating: 4.9 - 13 reviews

The Xbox One X 1TB Console boasts supreme levels of power to offer a console ... See your TV in a new light—games on Xbox One X look great even on a ...

Relevant/Irrelevant	Precision	Recall
R	1	0.071429
R	1	0.142857
	0.666667	0.142857
R	0.75	0.214286
	0.6	0.214286
	0.5	0.214286
	0.428571	0.214286
R	0.5	0.285714
	0.444444	0.285714
R	0.5	0.357143
	0.454545	0.357143
	0.416667	0.357143
	0.384615	0.357143
	0.357143	0.357143
R	0.4	0.428571
R	0.4375	0.5
R	0.470588	0.571429
	0.44	0.571429
	0.42	0.571429
R	0.45	0.642857

Recall vs. Precision curve of Query1

Relevant Documents: 1, 2, 4, 8, 10, 15, 16, 17, 20

Query2: new Xbox one cost



Xbox One - EB Games Australia

<https://ebgames.com.au/xbox-one> ▼

1/6. Click here to see more! New Energizer Xbox One Dual Charger. Accessories, ... Plantronics RIGS 500HX Xbox Headset Sand Camo. Plantronics RIGS ...

[New Energizer Xbox One Dual ...](#) · [Preowned Xbox One](#) · [Xbox One Accessories](#)

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Xbox One Packages At JB Hi-Fi Stores + All The Newest Games Out ...

<https://www.jbhifi.com.au/games-consoles/platforms/xboxone/> ▼

Xbox One. State of Decay 2 Ultimate Edition. XBOX ONE. New Release likely to have sold below ticketed/advertised price in stores prior to the discount offer.

You visited this page on 26/05/18.

Xbox One S | Xbox

<https://www.xbox.com/en-AU/xbox-one-s> ▼

Xbox One S has over 1300 games, built-in 4K Ultra HD Blu-ray™ and 4K video ... to over 100 highly-rated and fun games, with new ones being added all the time. ... it's yours to play on both Xbox One and Windows 10 PC at no additional cost.

You visited this page on 26/05/18.

The best price on Xbox One in Australia | finder.com.au

<https://www.finder.com.au > Video Game Finder> ▼

3 days ago - With the recent unveiling of the Xbox One X, the Xbox One S has seen some price drops recently. Still, searching for the best Xbox One deal in ...

You visited this page on 26/05/18.

The best Xbox One S prices, bundles and sales in Australia (May 2018 ...

<https://www.techradar.com/news/the-best-australian-xbox-one-deals-this-month> ▼

May 9, 2018 - Sorry folks, looks like these are all sold out — but rest assured we're on the hunt for new bundles, so stay tuned! View Deal. Xbox One S 1TB for \$347.

You visited this page on 26/05/18.

The best Xbox One X prices, bundles and sales in Australia (May 2018 ...

<https://www.techradar.com/news/the-best-australian-xbox-one-x-deals-this-month> ▼

5 days ago - This is the place where we answer any questions you may have about what exactly the new Xbox One X is capable of — its specs, price, and ...

You visited this page on 26/05/18.

Xbox | Target Australia

<https://www.target.com.au > Entertainment> ▼

Experience the greatest games lineup in Xbox history and join the best gaming community on Xbox One.

Xbox One | Entertainment | BIG W

<https://www.bigw.com.au/entertainment/video-games-consoles/xbox-one/.../6412110/> ▼

131 Products - Find the latest Xbox One products in Accessories, Consoles and Games at the lowest prices at BIG W.

Xbox One | Entertainment | BIG W

<https://www.bigw.com.au/entertainment/video-games-consoles/xbox-one/.../6412110/> ▼

131 Products - Find the latest Xbox One products in Accessories, Consoles and Games at the lowest prices at BIG W.

6 reasons you should buy a \$250 Xbox instead of the new \$500 one

www.businessinsider.com/xbox-one-vs-xbox-one-x-2017-11 ▼

Nov 6, 2017 - It plays the same games but looks better, does more, and costs less. And now, we're on the cusp of yet another new Xbox: the Xbox One X, ...

How Much Does an Xbox One Cost? - MakeUseOf

<https://www.makeuseof.com > Gaming> ▼

Nov 28, 2017 - Looking to buy a new console and wondering how much an Xbox One costs? Here's the price you can expect to pay for every Xbox One model.

Xbox One - GameStop

<https://www.gamestop.com/xbox-one> ▼

The new Xbox One S console also features 4K HDR video and gaming technology. And the new Xbox One S price is just \$299. Here at GameStop, we want to ...

Microsoft's Xbox One X price will start at \$499 - The Verge

<https://www.theverge.com/.../11/.../microsoft-xbox-one-x-price-specs-announced-e3-...> ▼

Jun 11, 2017 - Microsoft just unveiled its new console, the Xbox One X. ... Microsoft revealed its new Xbox One X console on stage at E3 earlier today, and now the company is announcing the price: \$499. The new gaming console will debut on November 7th priced at \$499, exactly \$100 more than its main ... You've visited this page 2 times. Last visit: 26/05/18

xbox one console | Xbox | Gumtree Australia Free Local Classifieds

<https://www.gumtree.com.au> > Electronics & Computer > Video Games & Consoles ▼

Xbox One S 500gb Console - Brand New in box plus 4 games! \$320 ... XBOX ONE S 1TB minecraft version(NEW) Price is not negotiable Bundle includes: •.

Microsoft Xbox One Console | eBay

<https://www.ebay.com.au> > ... > Video Game Consoles > Microsoft Xbox One Console ▼

Results 1 - 48 of 302 - NEW Xbox One X 1TB Console. The world's most powerful console! You are also entitled to have the goods repaired or replaced if the ...

Amazon.com: Xbox One

[https://www.amazon.com/Xbox-One-Games-Consoles-Accessories-Hardware/b?...](https://www.amazon.com/Xbox-One-Games-Consoles-Accessories-Hardware/b?) ▼

Get Free Shipping on Xbox One consoles. Shop Xbox accessories and our great selection of Xbox One games. ... Hot new releases ...

7 Reasons Why This Holiday Is A Great Time To Buy An Xbox One

<https://www.forbes.com/.../11/.../7-reasons-why-this-holiday-is-a-great-time-to-buy-an...> ▼

Nov 18, 2017 - When the Xbox One first launched it cost \$499, didn't have many ... to buy a game to play on it, and new releases don't come cheap at \$60.

Xbox One | Entertainment | BIG W

<https://www.bigw.com.au/entertainment/video-games-consoles/xbox-one/.../6412110/> ▼

131 Products - Find the latest Xbox One products in Accessories, Consoles and Games at the lowest prices at BIG W.

The best Black Friday Xbox deals 2017 - Polygon

<https://www.polygon.com/2017/11/20/.../black-friday-xbox-one-x-games-controllers> ▼

Nov 23, 2017 - Xbox One S offers are where it's at. ... (That deal applies to new consoles only, not pre-owned or refurbished ones.) ... Multiplatform games are typically offered at the same price on all comparable platforms — for instance, ...

Xbox One Consoles - Walmart

https://www.walmart.com/browse/video-games/xbox-one.../2636_1224908_1224995 ▼

Video Games - Xbox One Consoles, Games & Accessories. Xbox One Consoles. Showing 1-40 of 137 products. Refine by: |. Price: \$ - \$. Go. Top Brands.

Xbox One Consoles - Walmart

https://www.walmart.com/browse/video-games/xbox-one.../2636_1224908_1224995 ▼

Video Games · Xbox One Consoles, Games & Accessories. Xbox One Consoles. Showing 1-40 of 137 products. Refine by. |. Price. \$ - \$. Go. Top Brands.

New Xbox One Deal Drops The Price Of The System Nicely - GameSpot

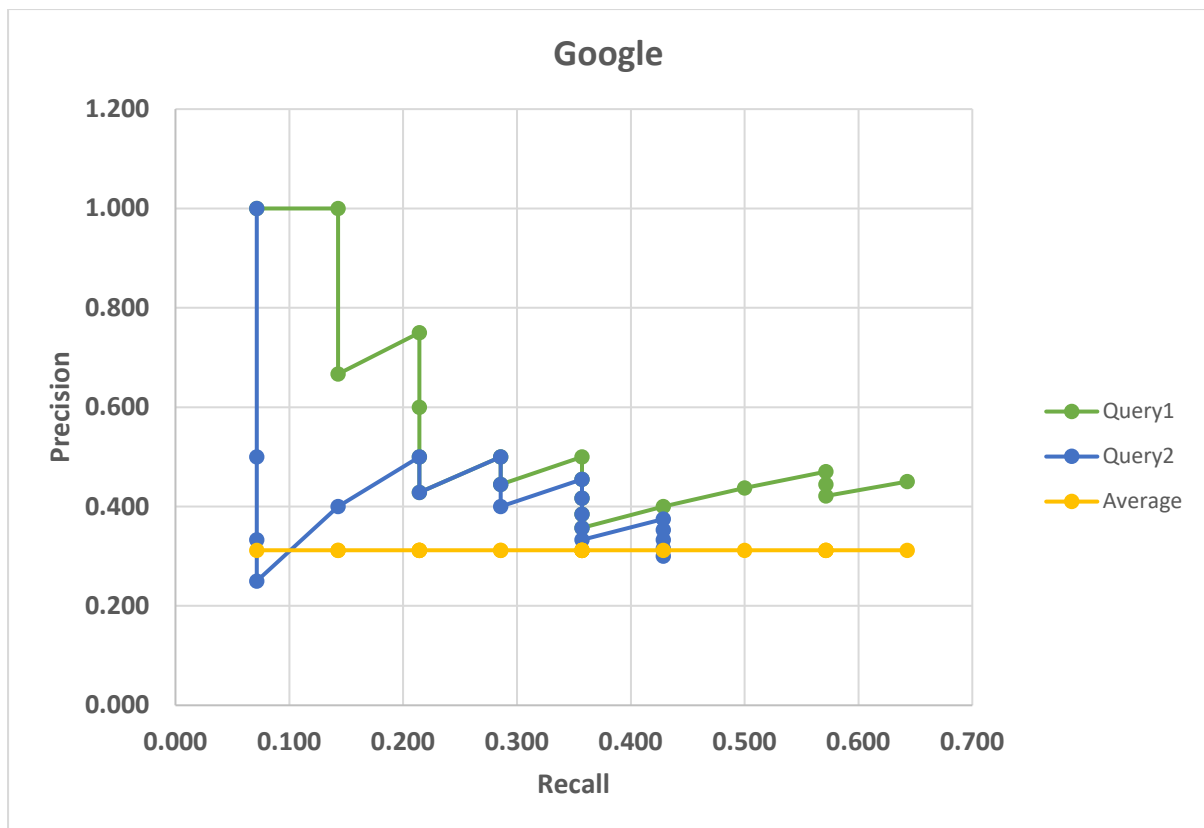
<https://www.gamespot.com/articles/new-xbox-one-deal...price-of.../1100-6456851/> ▼

Feb 18, 2018 - Microsoft temporarily cuts the price of various Xbox One S bundles.

Relevant/Irrelevant	Precision	Recall
R	1	0.071429
	0.5	0.071429
	0.333333	0.071429
	0.25	0.071429
R	0.4	0.142857
R	0.5	0.214286
	0.428571	0.214286
R	0.5	0.285714
	0.444444	0.285714
	0.4	0.285714
R	0.454545	0.357143
	0.416667	0.357143
	0.384615	0.357143
	0.357143	0.357143
	0.333333	0.357143
R	0.375	0.428571
	0.352941	0.428571
	0.333333	0.428571
	0.315789	0.428571
	0.3	0.428571

Recall vs. Precision curve of Query2

Relevant Documents: 1, 5, 6, 8, 11, 16



Mean Average Precision for Query1: 0.393435

Mean Average Precision for Query2: 0.230682

Overall Mean Average Precision: 0.312058

Search Engine: Bing

Target 5: obtain the price of new Xbox one.

b)

Query1: Price of new Xbox one



Xbox One Packages At JB Hi-Fi Stores + All The Newest ...

<https://www.jbhifi.com.au/games-consoles/platforms/xboxone> ▼

Xbox One at JB Hi-Fi features, Xbox Live, ... a new game from EA's BioWare studio, ... As we negotiate on price, ...

Xbox One S 500GB Console · JB Hi-Fi · Available for Pre-Order · Attack on Titan 2

Xbox One - EB Games Australia

<https://ebgames.com.au/xbox-one> ▼

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Here are our tips for selling your original **Xbox One** console! ... How to **sell your old Xbox** so you can buy a **new Xbox** ... it's hard to justify the price point for ...

Relevant/Irrelevant	Precision	Recall
	0	0
R	0.5	0.071429
	0.333333	0.071429
	0.25	0.071429
R	0.4	0.142857
	0.333333	0.142857
	0.285714	0.142857
R	0.375	0.214286
	0.333333	0.214286
	0.3	0.214286
R	0.363636	0.285714
R	0.416667	0.357143
	0.384615	0.357143
R	0.428571	0.428571
	0.4	0.428571
	0.375	0.428571
	0.352941	0.428571
	0.333333	0.428571
	0.315789	0.428571
	0.3	0.428571

Recall vs. Precision curve of Query1

Relevant Documents: 2, 5, 8, 11, 12, 14

Query2: new Xbox one cost

The screenshot shows a Bing search results page. The address bar displays the URL: <https://www.bing.com/search?q=new+xbox+one+cost&qp=n&sp=-1&pq=new+xbox+one+cost&sc=5-17&sk=0&vid=8685C2808774597AAEE811A7FC21412&first=21&FORM=PERE1>. The search bar contains the text "new xbox one cost". Below the search bar, there are tabs for "All", "Images", "Videos", "Maps", "News", and "My saves". The "All" tab is selected. At the bottom of the page, it shows "21-30 Of 40,100,000 Results" and options for "Date", "Language", and "Region".

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Xbox One at JB Hi-Fi features, ... RIDE 3 has a whole new heart and a completely revised experience: whilst maintaining the identity of the series, ...

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Xbox One X is Microsoft's powerful new game console

money.cnn.com/2017/06/12/technology/gadgets/xbox-one-x/index.html ▼

12/06/2017 · The **Xbox One X** "the most powerful console ever made." It will launch globally on November 7 and cost \$499.

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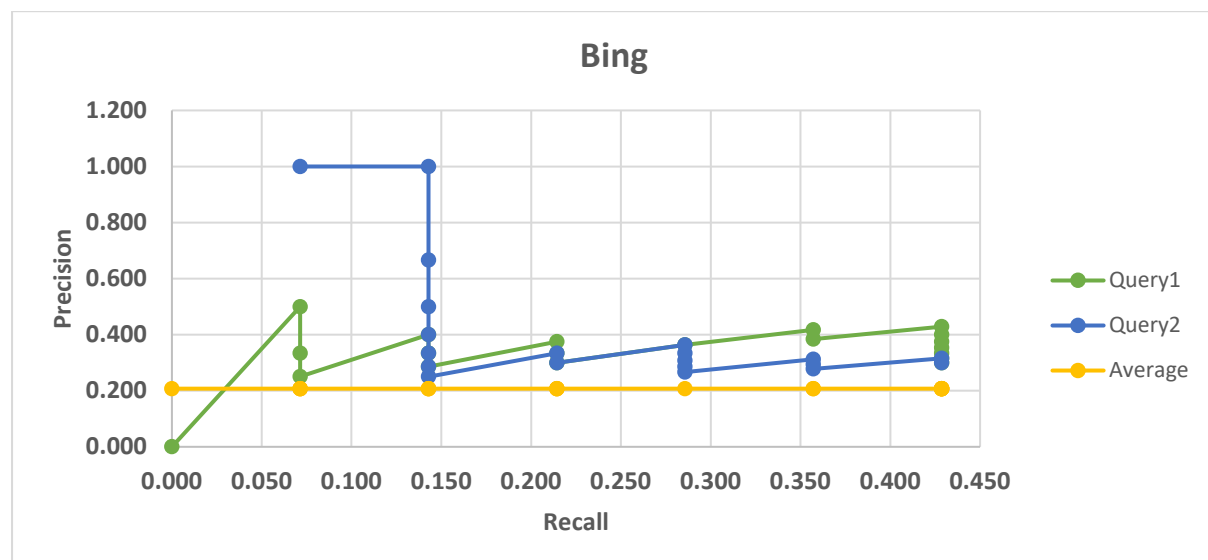
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Relevant/Irrelevant	Precision	Recall
R	1	0.071429
R	1	0.142857
	0.666667	0.142857
	0.5	0.142857
	0.4	0.142857
	0.333333	0.142857
	0.285714	0.142857
	0.25	0.142857
R	0.333333	0.214286
	0.3	0.214286
R	0.363636	0.285714
	0.333333	0.285714
	0.307692	0.285714
	0.285714	0.285714
	0.266667	0.285714
R	0.3125	0.357143
	0.294118	0.357143
	0.277778	0.357143
R	0.315789	0.428571
	0.3	0.428571

Recall vs. Precision curve of Query2

Relevant Documents: 1, 2, 9,11,16,19

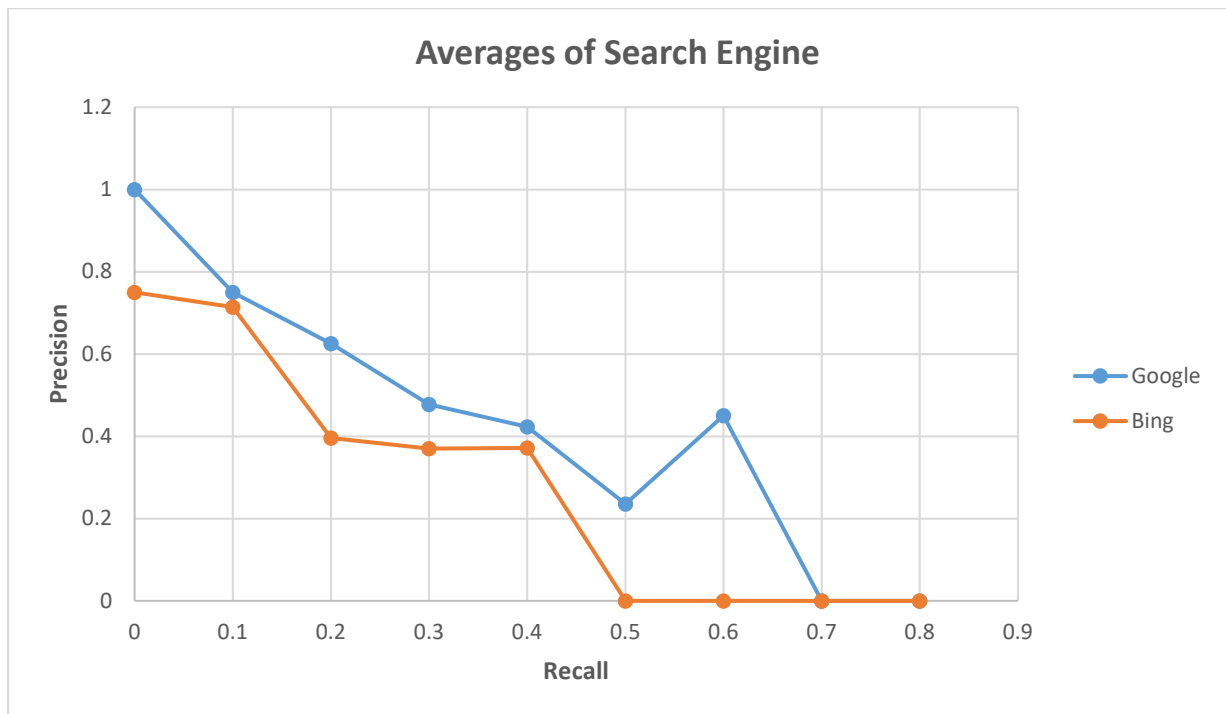


Mean Average Precision for Query1: 0.17742

Mean Average Precision for Query2: 0.237518

Overall Mean Average Precision: 0.207469

c)



Recall	Precision
0	1
0.1	0.75
0.2	0.625
0.3	0.47725
0.4	0.422794
0.5	0.2355
0.6	0.45
0.7	0
0.8	0

Average for search engine- Google

Recall	Precision
0	0.750
0.1	0.714
0.2	0.396
0.3	0.371
0.4	0.372
0.5	0.000
0.6	0.000
0.7	0.000
0.8	0.000

Average for search engine- Bing

When you see the graph you will find that blue line always has greater precision than orange line over all the values of the recall. Even at the 10% of the recall value both of them have similar value but Google is slightly higher precision. Same is the case over 40% recall value. Except this, all other recall values you will find Google is a winner.

Google search engine is better/superior than Bing in terms of getting relevant documents to the users.

References:

Future Learn Limited 2018, *SIT772 Database & Information retrieval*, Future Learn Limited, retrieved 15 April 2018, < <https://www.futurelearn.com/your-programs/database-and-information-retrieval/4> >