

Googling Effectively for Your Research

17 MAR 2023

Speaker

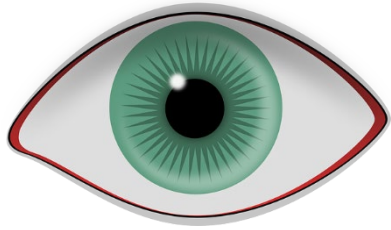
Patrick Pu



Learning Outcomes

01. Tips to use Google search effectively
02. Tricks to use Google Scholar for your research
03. How-tos on using Google Images

How am I carrying out this session?



SEE

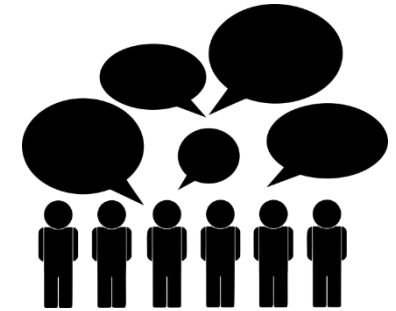
Presentation Slides

Demo



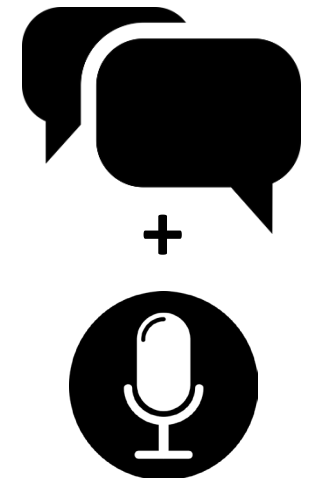
DO

 Poll Everywhere



SHARE

zoom



1. **Google** Search
2. **Google** Scholar
3. **Google** Images

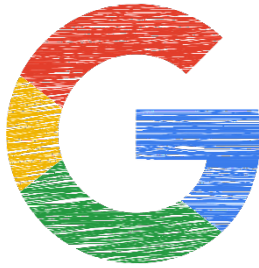
DOWNLOAD




TRAINING PACK

<https://nus.edu/3F4VTx8>



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- 
- ✓ Learn something fun
 - ✓ Learn something useful for now
 - ✓ Learn something useful for future

To be aware of the useful tips
and tricks of Google that
would be able to ease the
everyday use of the Internet



One account. All of Google
working for you.



Google

Create your Google Account

@gmail.com

You can use letters, numbers & periods

[Use my current email address instead](#)

Use 8 or more characters with a mix of letters, numbers & symbols

☐ Show password

[Sign in instead](#)

Next

Google Search

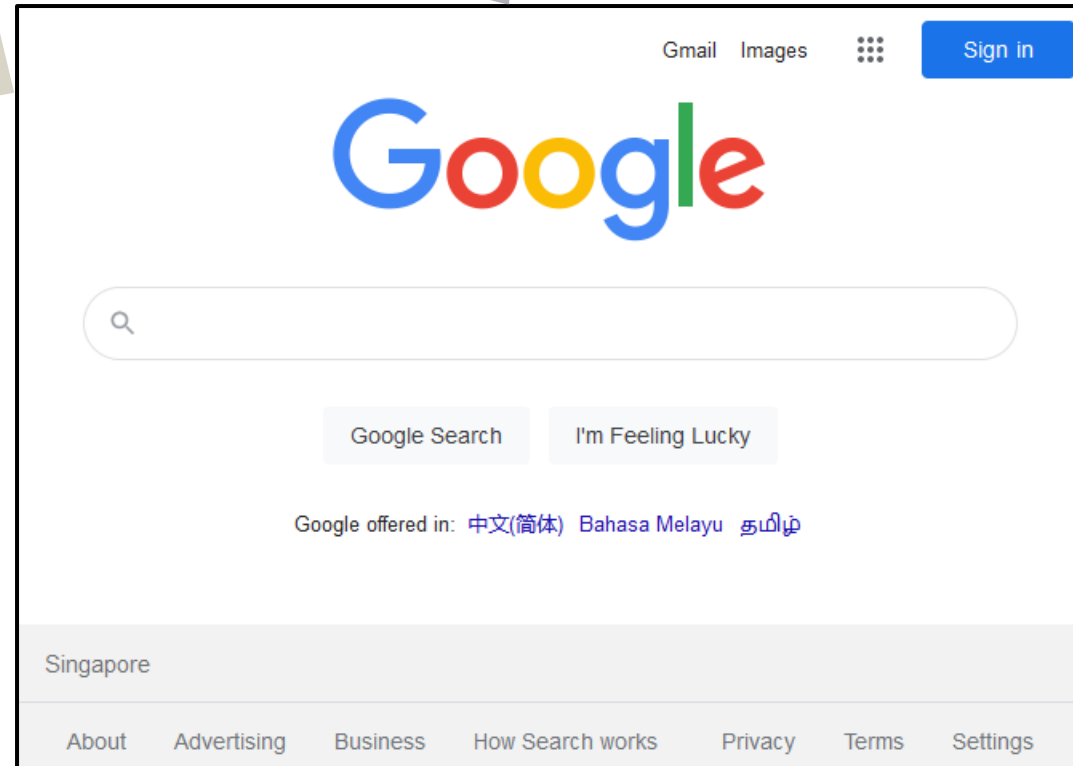


Specific search
(no space in between):

- site
- related
- OR
- cache
- filetype
- intitle

Not critical:

- Spelling
- Capitalization



Punctuation is
ignore, except:

- @ social media
- \$ price
- # hashtags
- – exclude words
- "" exact match
- * wildcards or unknown words
- .. Range



The Wayback Machine by Internet Archive
@ <http://web.archive.org>

Simple Google
Search tips



1:45

Search methods:

- Type word(s)
- Say "OK Google" or tab Microphone (via [app](#))

Context-sensitive:

- Filters
- Tools
- Settings

Search results:

- Title
- URL
- Snippet

Filter and refine your
Google Search results



1:37

Top of the page

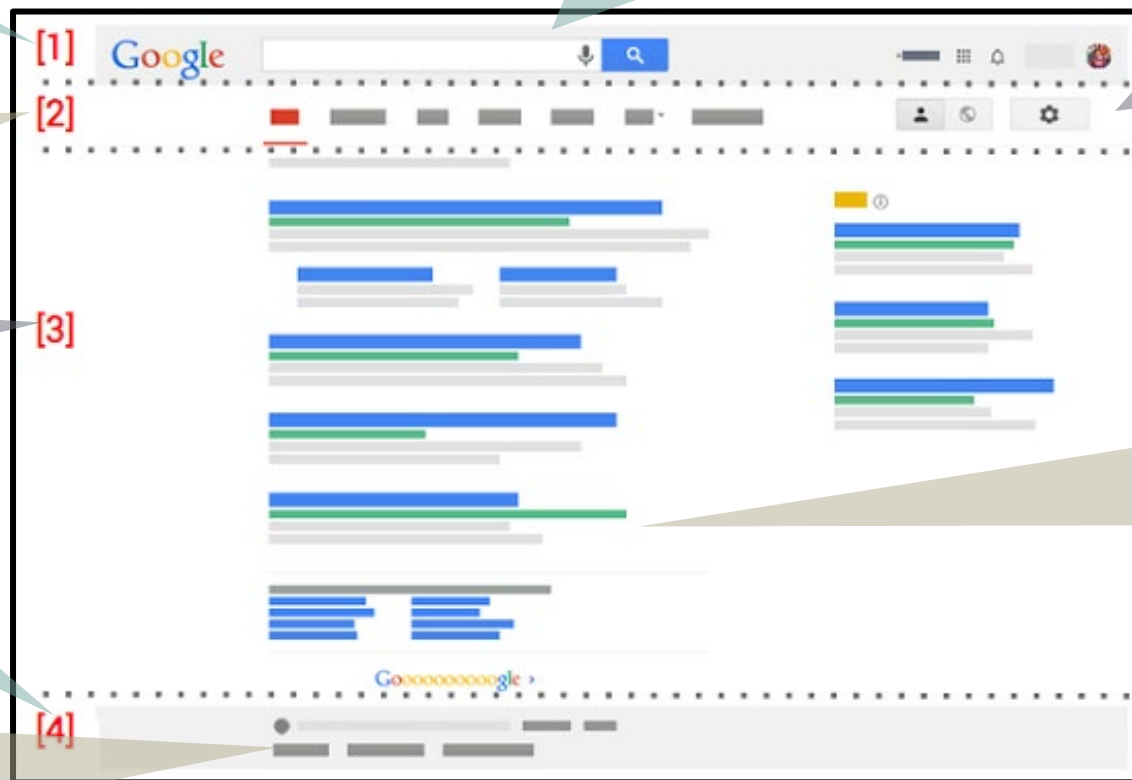
Search filters & settings

Search results & ads

Bottom of the page

Update your location,
click:

- Use precise location, or
- Update location



1



Quick Settings

See all settings

Privacy

Search history

Your data in Search

Using Search

Explicit results filter

[Learn more about SafeSearch](#)

Languages

Advanced search

Appearance

Light theme

Dark theme

Device default

2



Advanced Search

Find pages with...

all these words:

this exact word or phrase:

any of these words:

none of these words:

numbers ranging from:

To do this in the search box

Type the important words: tricolor rat terrier

Put exact words in quotes: "rat terrier"

Type OR between all the words you want: miniature OR standard

Put a minus sign just before words you don't want: -rodent, -"Jack Russell"

Put 2 periods between the numbers and add a unit of measure: 10..35 lb, \$300..\$500, 2010..2011

Then narrow your results by...

language:

region:

last update:

site or domain:

terms appearing:

SafeSearch:

file type:

usage rights:

any language

any region

anytime

anywhere in the page

Show most relevant results

any format

not filtered by license

Find pages in the language you select.

Find pages published in a particular region.

Find pages updated within the time you specify

Search one site (like wikipedia.org) or limit your results to a domain like .edu, .org or .gov

Search for terms in the whole page, page title, or web address, or links to the page you're looking for.

Tell SafeSearch whether to filter sexually explicit content.

Find pages in the format you prefer.

Find pages you are free to use yourself.

Advanced Search

You can also...

[Find pages that are similar to, or link to, a URL](#)

[Search pages you've visited](#)

[Use operators in the search box](#)

[Customize your search settings](#)

SafeSearch:

- Show explicit results (default)
- Hide explicit results

Usage rights:

- not filtered by licence (default)
- free to use or share
- free to use or share, even commercially
- free to use, share or modify
- free to use, share or modify, even commercially

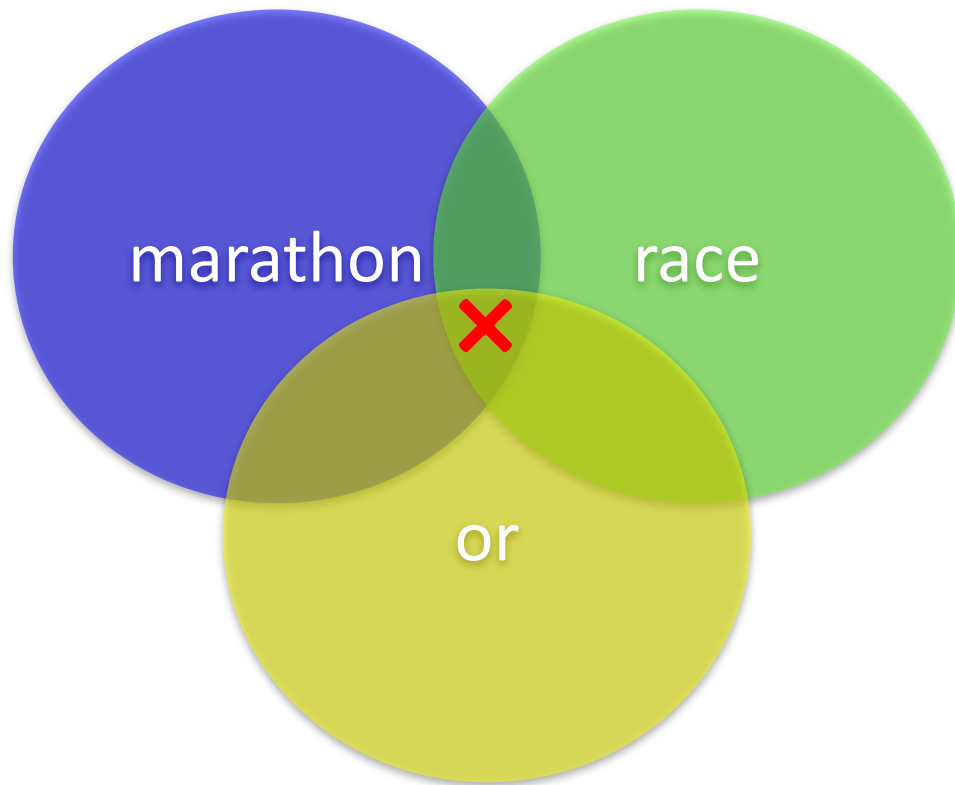
ACTIVITY 1

Google Search & Advanced Search

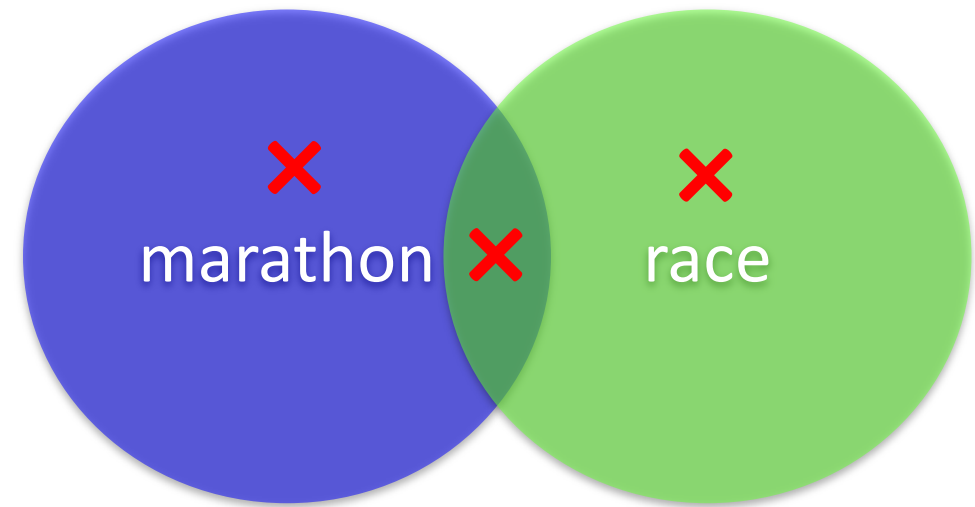
Do you know how to ...

- A. Perform specific search
- B. Use operators
- C. Filter and refine search results
- D. Use Advanced Search
- E. Putting it all together

using **or**



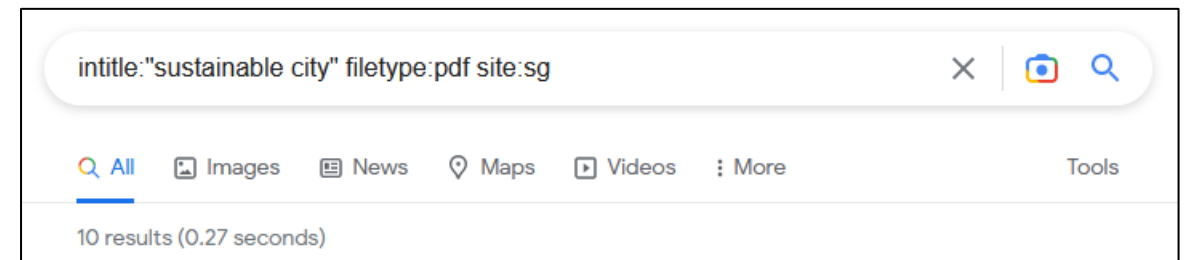
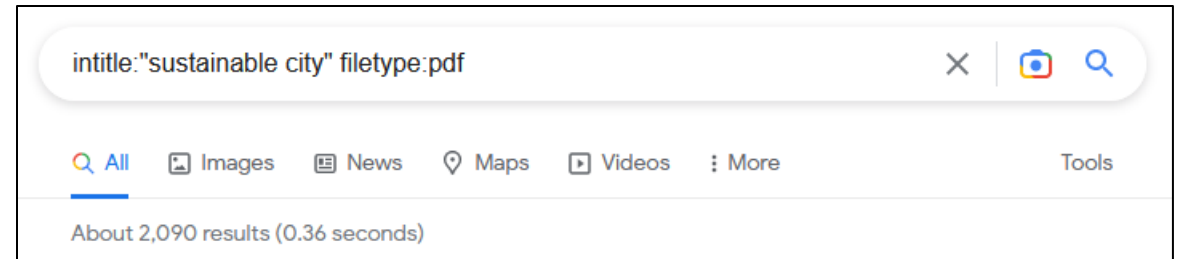
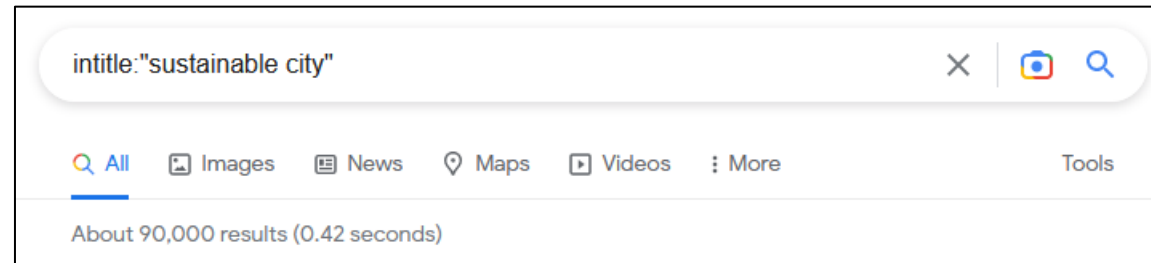
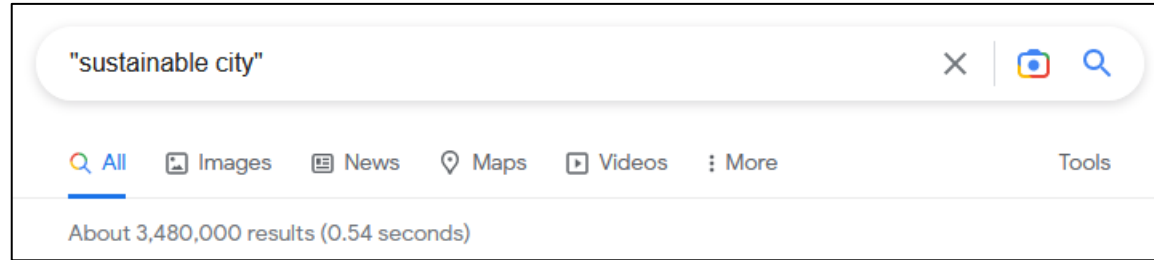
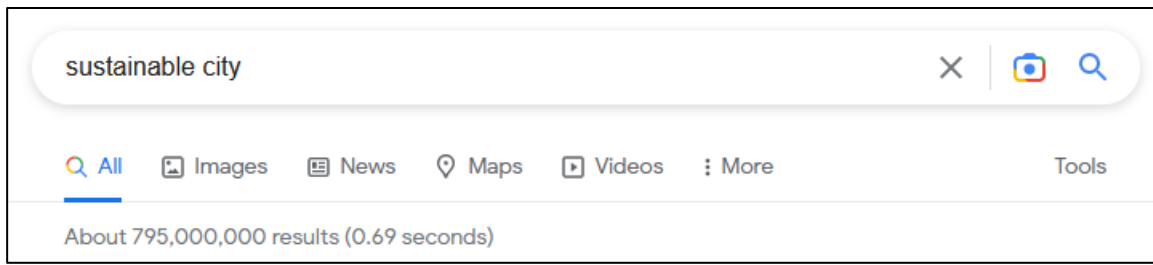
using **OR**



more result
WHY?

marathon AND race AND or

marathon OR race



Constructing
Search Statement

Reducing # of results,
but high precision,
likely more relevant

Google Scholar



Unlike  which is the web search engine,

 searches for scholarly literature

Features of Google Scholar (GS) [1]:

- Search all scholarly literature from one convenient place
- Explore related works, citations, authors, and publications
- Locate the complete document through your library or on the web
- Keep up with recent developments in any area of research
- Check who's citing your publications, create a public author profile

[1] “About Google Scholar.” <https://scholar.google.com/intl/en/scholar/about.html> (accessed Mar. 7, 2023).

Google Scholar

☒ Articles ☐ Case law

Multi-
disciplinary

- Sources:
- Academic publishers
 - Professional societies
 - Online repositories
 - University repositories
 - Other web sites

- Types:
- Articles
 - Conference papers
 - Theses
 - Academic Books
 - Pre-prints
 - Abstracts
 - Technical reports
 - Other scholarly literature
 - Court opinions
 - Patents

ScholarBank@NUS
is indexed by GS

Update frequency:

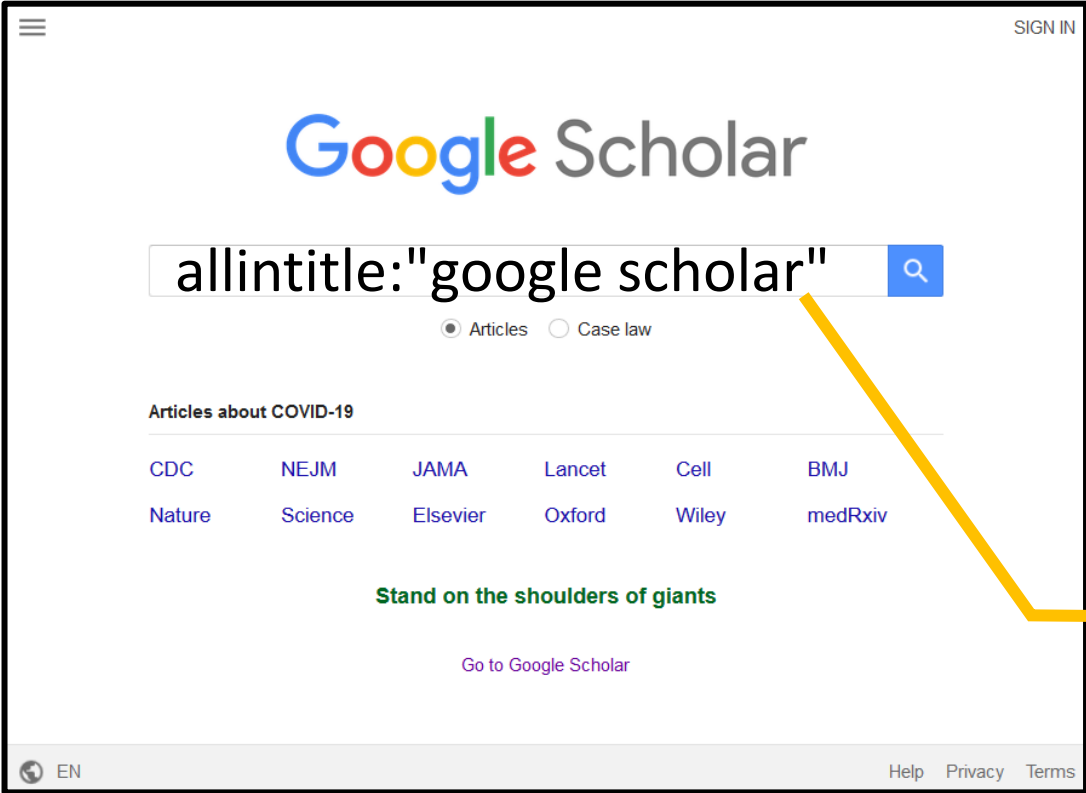
- Several times a week
- Updates to existing records take 6-9 months to a year or longer

No indication of specific:

- Publishers
- Journals

Author Profile:

refer to [Research Impact](#)



GS Button:

- [Chrome](#)
- [Firefox](#)



coverage comparisons



“To check current coverage of a specific source in Google Scholar, search for a sample of their article titles in quotes.”

Although there are many results,
only up to **1,000** results are displayed

author:“xxx”

Filtering by:

- Time
- Relevance

Email alert

The screenshot shows the Google Scholar interface with the search term 'circular economy'. The results list includes three articles. Annotations highlight the 'Save' button for the first article, the 'My library' button in the top right, and the 'Create alert' checkbox in the left sidebar.

Google Scholar

Search: circular economy

Articles About 2,190,000 results (0.04 sec)

My profile My library

Any time
Since 2022
Since 2021
Since 2018
Custom range...

Sort by relevance
Sort by date

Any type
Review articles

☐ include patents
☒ include citations

☒ Create alert

[HTML] Conceptualizing the **circular economy**: An analysis of 114 definitions
J Kirchherr, D Reike, M Hekkert - Resources, conservation and recycling, 2017 - Elsevier
... of the **circular economy** concept. For this purpose, we have gathered 114 **circular economy**
Our findings indicate that the **circular economy** is most frequently depicted as a combination ...
☆ Save Cite Cited by 3991 Related articles All 16 versions Import into EndNote

[HTML] sciencedirect.com
Find It! @NUS Libraries

The **Circular Economy**—A new sustainability paradigm?
M Geissdoerfer, P Savaget, NMP Bocken... - Journal of cleaner ..., 2017 - Elsevier
... relationship between the **Circular Economy** and sustainability ... sustainability and the **Circular Economy** by presenting their ... sustainability and the **Circular Economy**, before similarities ...
☆ Save Cite Cited by 4610 Related articles All 26 versions Import into EndNote

[PDF] dur.ac.uk
Find It! @NUS Libraries

Critiques of the **circular economy**
H Corvellec, AF Stowell... - Journal of Industrial ..., 2022 - Wiley Online Library
... As this paper shows, the **circular economy** and **circular** business models are open to a wide range of critiques that go beyond mere declarations of principles about the necessity and ...
☆ Save Cite Cited by 102 Related articles All 11 versions Import into EndNote

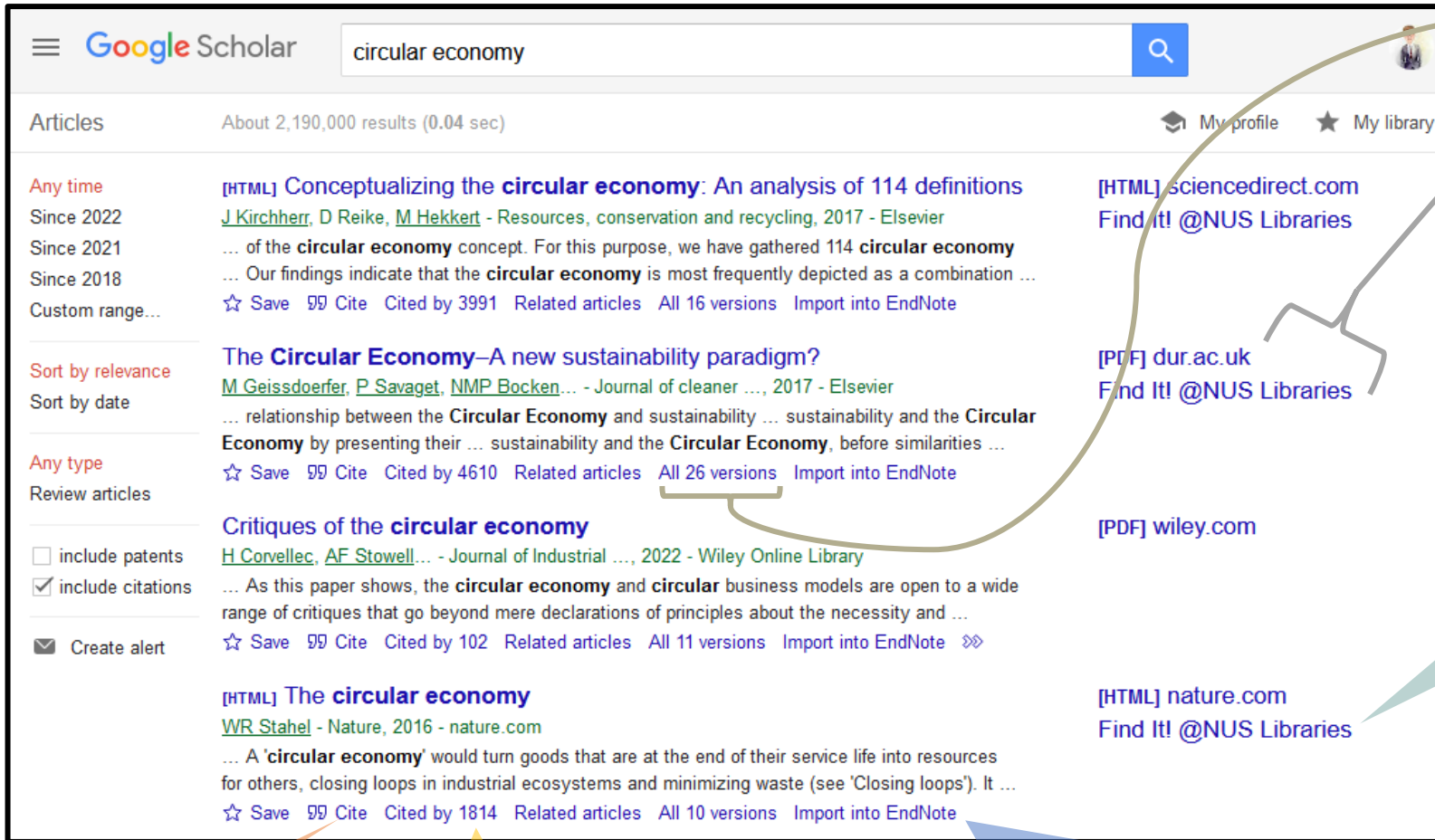
[PDF] wiley.com

[HTML] The **circular economy**
WR Stahel - Nature, 2016 - nature.com
... A '**circular economy**' would turn goods that are at the end of their service life into resources for others, closing loops in industrial ecosystems and minimizing waste (see 'Closing loops'). It ...
☆ Save Cite Cited by 1814 Related articles All 10 versions Import into EndNote

[HTML] nature.com
Find It! @NUS Libraries

Save to
“My Library”
after login

Inclusion & Corrections



The screenshot shows the Google Scholar interface with search results for 'circular economy'. Annotations include:

- Full-text**: A grey box with an arrow pointing to the '[HTML] sciencedirect.com Find It! @NUS Libraries' link for the first article.
- Find It! @NUS Libraries**: A teal box with an arrow pointing to the '[PDF] dur.ac.uk Find It! @NUS Libraries' link for the second article.
- Find It! @NUS Libraries**: A teal box with an arrow pointing to the '[HTML] nature.com Find It! @NUS Libraries' link for the third article.
- Cite**: An orange box with an arrow pointing to the 'Cite' button for the third article.
- Citation counts**: A yellow box with an arrow pointing to the 'Cited by 1814' text for the third article.
- Citation export to Zotero/EndNote/Mendeley**: A blue box with an arrow pointing to the 'Import into EndNote' button for the third article.

Search results shown:

- Article 1:** [HTML] Conceptualizing the **circular economy**: An analysis of 114 definitions
J Kirchherr, D Reike, M Hekkert - Resources, conservation and recycling, 2017 - Elsevier
... of the **circular economy** concept. For this purpose, we have gathered 114 **circular economy**
... Our findings indicate that the **circular economy** is most frequently depicted as a combination ...
☆ Save Cite Cited by 3991 Related articles All 16 versions Import into EndNote
- Article 2:** The **Circular Economy**—A new sustainability paradigm?
M Geissdoerfer, P Savaget, NMP Bocken... - Journal of cleaner ..., 2017 - Elsevier
... relationship between the **Circular Economy** and sustainability ... sustainability and the **Circular Economy** by presenting their ... sustainability and the **Circular Economy**, before similarities ...
☆ Save Cite Cited by 4610 Related articles All 26 versions Import into EndNote
- Article 3:** Critiques of the **circular economy**
H Corvellec, AF Stowell... - Journal of Industrial ..., 2022 - Wiley Online Library
... As this paper shows, the **circular economy** and **circular** business models are open to a wide range of critiques that go beyond mere declarations of principles about the necessity and ...
☆ Save Cite Cited by 102 Related articles All 11 versions Import into EndNote
- Article 4:** [HTML] The **circular economy**
WR Stahel - Nature, 2016 - nature.com
... A '**circular economy**' would turn goods that are at the end of their service life into resources for others, closing loops in industrial ecosystems and minimizing waste (see 'Closing loops'). It ...
☆ Save Cite Cited by 1814 Related articles All 10 versions Import into EndNote

Full-text

Find It! @NUS Libraries
[**Steps:** Settings > Library links > search "nus"]

Bibliography manager

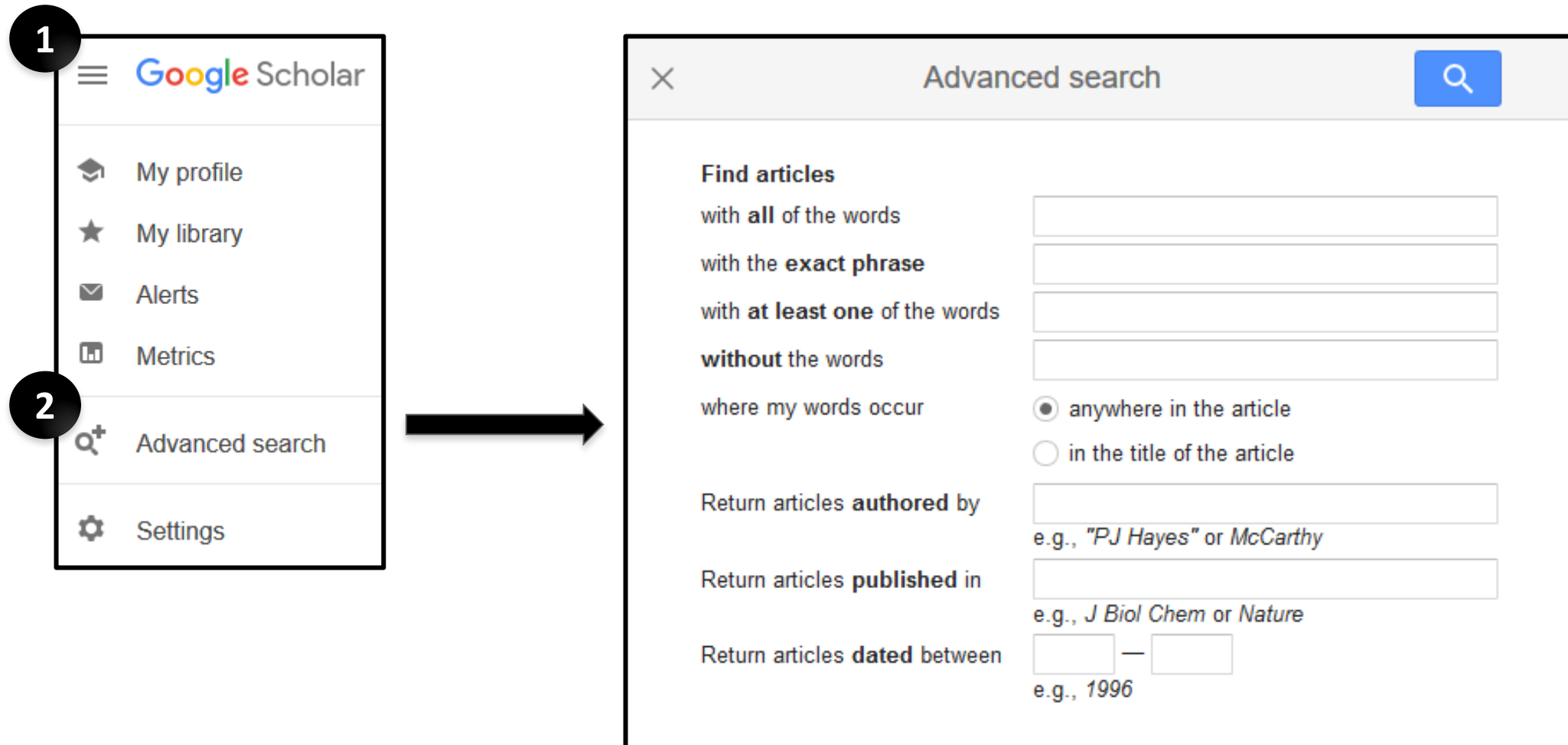
- ☐ Don't show any citation import links.
☒ Show links to import citations into

BibTeX
EndNote
RefMan
RefWorks

Cite

Citation counts

Citation export to Zotero/EndNote/Mendeley
[**Steps:** GS Settings > Search results > Bibliography manager > Show links to import citations into...]



Top 100 publications in several languages in a subject area | 5 years h-index and h-median

Top Publications

Google Scholar

Categories > **Engineering & Computer Science** > Subcategories ▾

Top publications
Top cited publications over the last five years [Learn more](#)

Publication

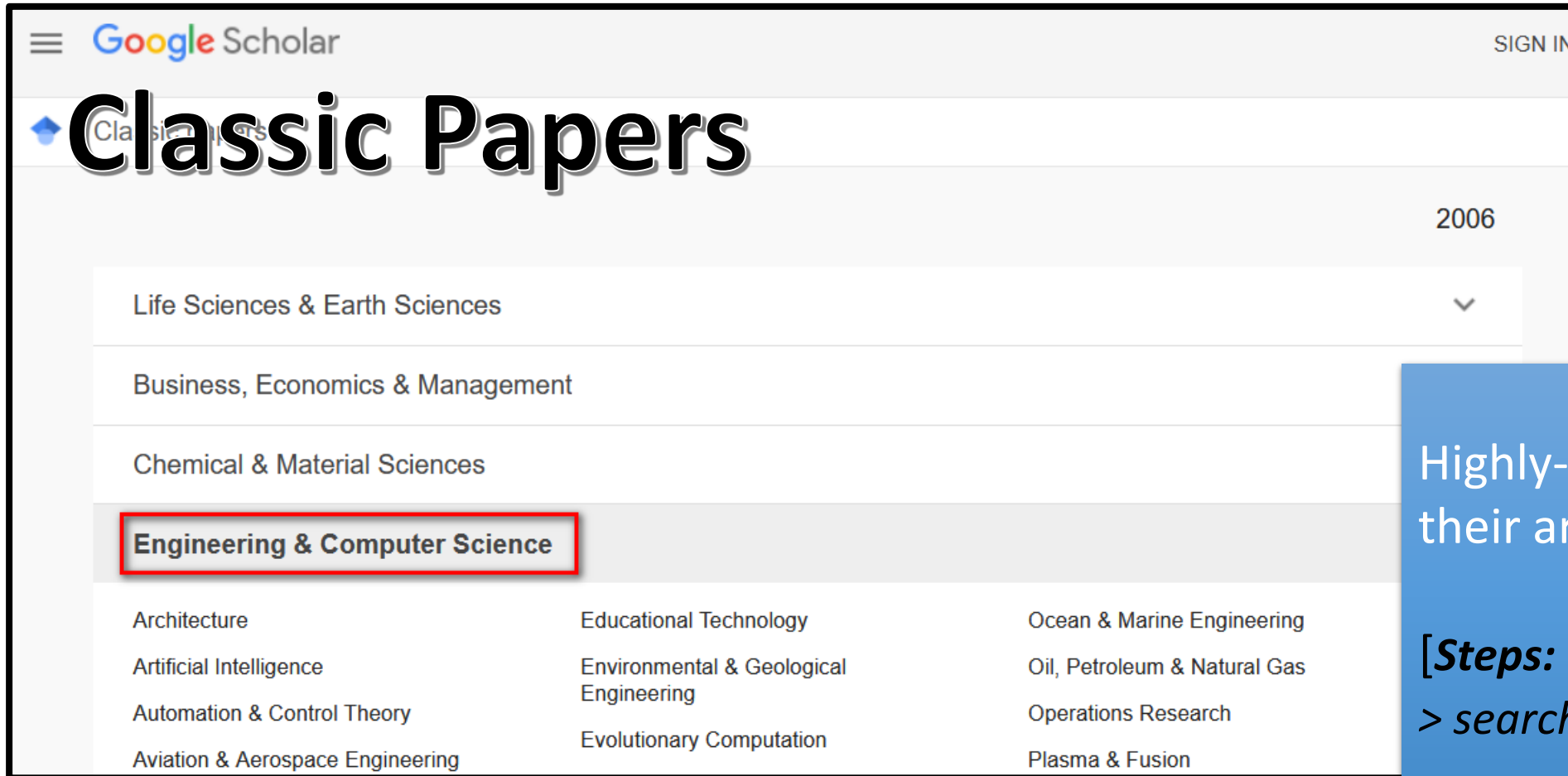
	Publication	h5-index	h5-median
1.	Nature		
2.	The New England Journal of Medicine		
3.	Science		
4.	IEEE/CVF Conference on Computer Vision and Pattern Recognition	389	627
5.	The Lancet		
6.	Advanced Materials	312	418
7.	Nature Communications	286	533
8.	Cell	278	436
9.	International Conference on Learning Representations	239	415
10.	Neural Information Processing Systems	237	421
	Renewable and Sustainable Energy	227	324
	Advanced Energy Materials	220	300
	ACS Nano	211	277
	Journal of Cleaner Production	211	273

[VIEW ALL](#)

Scholar Metrics are currently based on its index as it was in Jun 2022

[Steps: GS Menu > Metrics]

10 most-cited papers in a subject area have stood the test of time | published 2006 based on index May 2017



The screenshot shows the Google Scholar 'Classic Papers' interface. At the top, the Google Scholar logo and a 'SIGN IN' link are visible. Below the header, the title 'Classic Papers' is displayed in a large, bold font. To the right of the title, the year '2006' is shown. A dropdown menu is open, listing various subject areas. The 'Engineering & Computer Science' category is highlighted with a red rectangular border. Below this category, a grid of specific research areas is listed, including Architecture, Educational Technology, Ocean & Marine Engineering, Artificial Intelligence, Environmental & Geological Engineering, Oil, Petroleum & Natural Gas, Automation & Control Theory, Operations Research, and Aviation & Aerospace Engineering, Evolutionary Computation, and Plasma & Fusion.

Google Scholar SIGN IN

Classic Papers

2006

Life Sciences & Earth Sciences

Business, Economics & Management

Chemical & Material Sciences

Engineering & Computer Science

- Architecture
- Artificial Intelligence
- Automation & Control Theory
- Aviation & Aerospace Engineering
- Educational Technology
- Environmental & Geological Engineering
- Evolutionary Computation
- Ocean & Marine Engineering
- Oil, Petroleum & Natural Gas
- Operations Research
- Plasma & Fusion

Highly-cited papers in
their area of research

[**Steps:** *Google.com*
> search “classic papers”]

Better results? Try searching in Incognito Mode



New Incognito Window



Private Browsing/Window



New Private Window



New InPrivate Browsing/Window

ACTIVITY 2

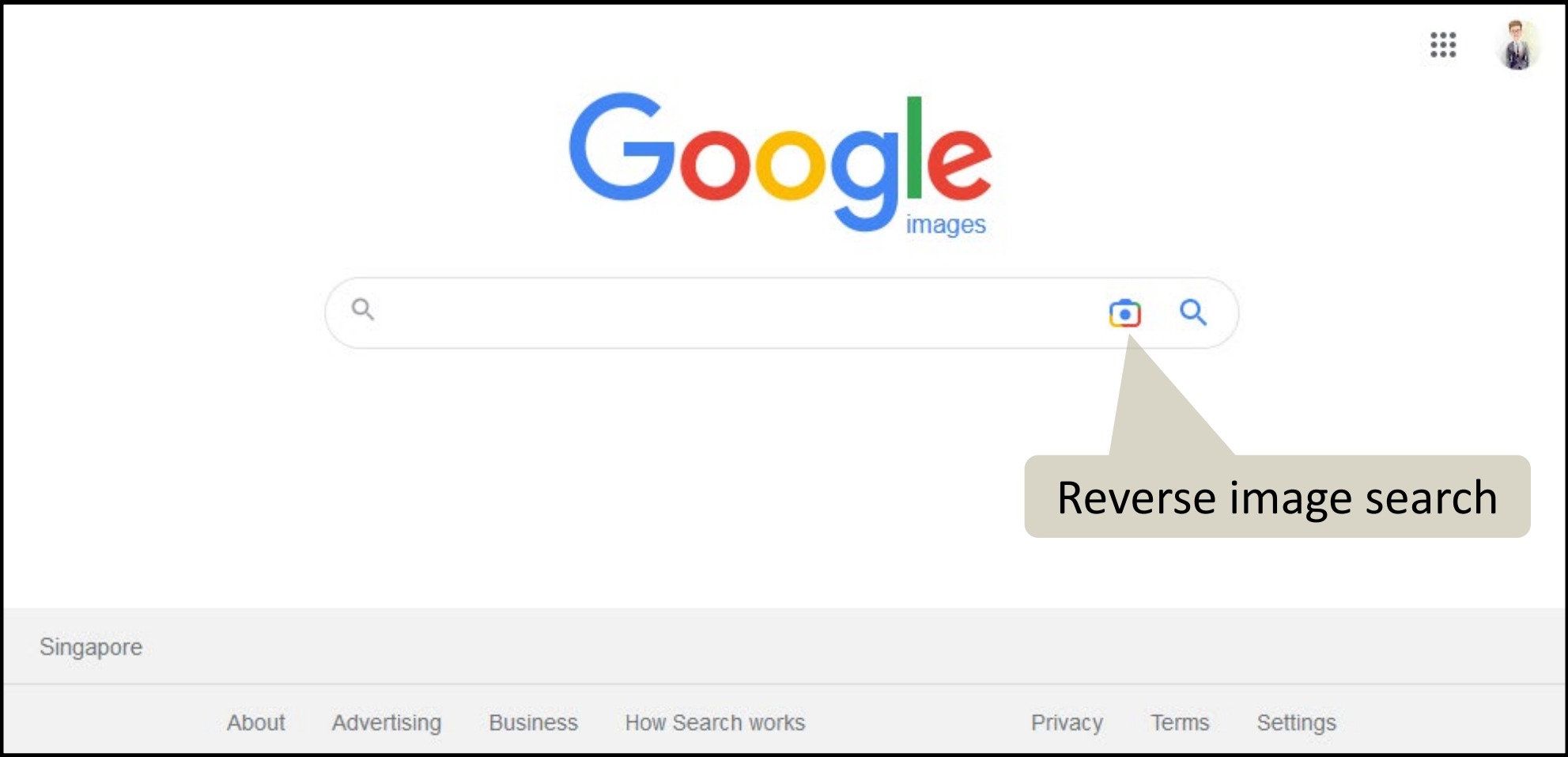
Google Scholar

Do you know how to ...

- A. Use Find It! @NUS Libraries
- B. Configure citation export
- C. Find author
- D. Create alert
- E. Use Advanced Search
- F. View Top Publications
- G. Locate Classic Papers

Google Images








2


Filtered by:


- Size
- Colour
- Usage rights





 All



 News

 Maps

 Images

 Videos

 More

1

Tools

Size

Color

Type

Time

Usage Rights

map

marina bay

city

hotel

night

wallpaper

national day


food


tourist


beautiful


travel


building





 National Geographic...
National Geographic Ki...





 Encyclopedia Britannica
Singapore | Facts, Geography, History ...





 PlanetWare
Beautiful Places to Photograph | PlanetWare





 CNN
Travel to Singapore during Covid-19 ...





 National Geographic
Greenest City





 Hotels.com
19 Best Things to Do in Singapore ...





 ArchDaily
Greener Urban Environment ...





 Secret Singapore
In Singapore





 Lonely Planet
Singapore travel - Lonely Planet | Asia





 Travellers Worldwide
Visit Singapore in 2023 ...





 Euronews
nature with urban living ...




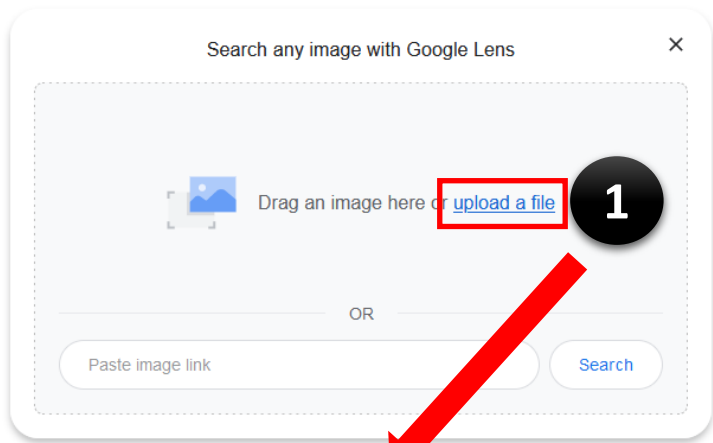






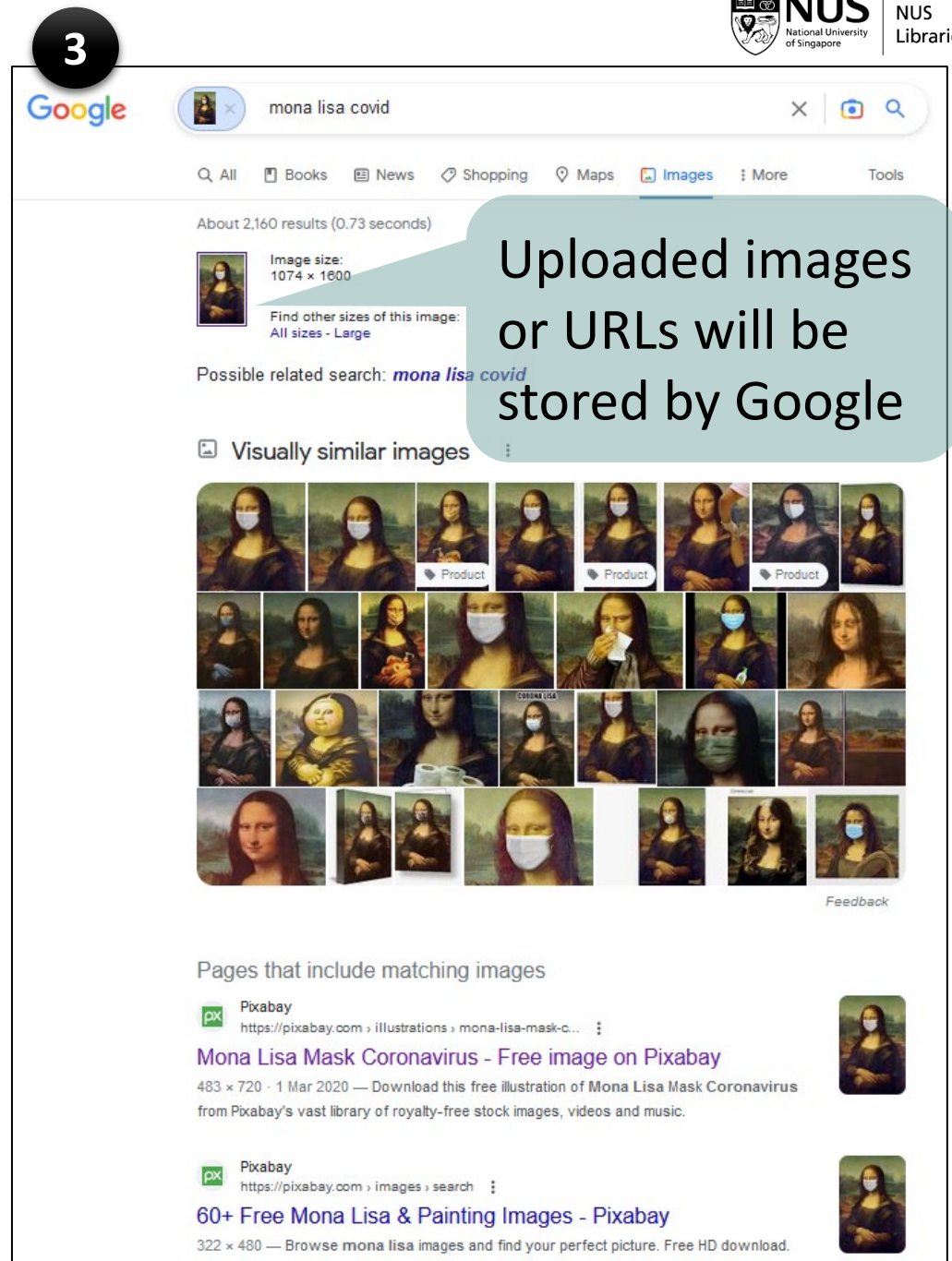
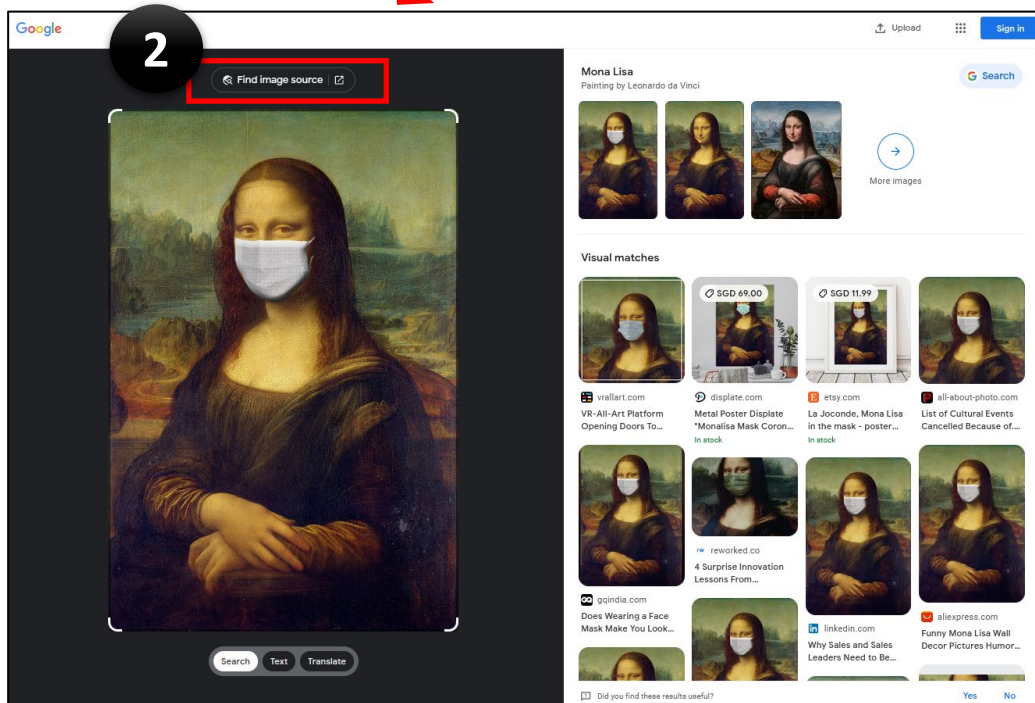






Results may include:

- Similar images
- Sites that include the image
- Other sizes of the image you searched for



ACTIVITY 4

Google Images

Do you know how to ...

- A. Filtered by size
- B. Filtered by colour
- C. Filtered by usage rights
- D. Perform a Google Reverse Image Search
- E. Define by search



Researcher Unbound Digital Badges

Showcase the knowledge and skills you have acquired in your emails, online CVs, LinkedIn and other social media platforms. Earn Researcher Unbound Badges by attending workshops and answering a quiz for each workshop attended.

Each domain in the [Research Skills Framework](#) (RSF) has its own unique set of Basic, Intermediate and Advanced badges, depending on the number of workshops in that domain attended.

How to earn badges?



Basic Badge

Attend at least 2 workshops within the same domain and answer quiz questions correctly



Intermediate Badge

Attend at least 5 workshops within the same domain and answer quiz questions correctly



Advanced Badge

Attend at least 7 workshops within the same domain and answer quiz questions correctly



Meta-Badges

Coming Soon! Meta-Badges will be available for super-achievers who get at least a Basic badge in all 7 RSF domains!

Take the quiz and earn a digital badge

Use the link below or scan the QR code to access the quiz:



<https://bit.ly/google2023mar>

Google Help:

- ✓ [HTML](#)
- ✓ [YouTube](#)

further

HELP

Remember the **NUS Libraries**
and your fellow friendly *Librarians*,
who are always there for your
Studies, Research and Teaching needs!!



Try our services and resources!!



Academic
Databases



Subject Guides

Research Support

Go to section

Go to section
Digital Scholarship
Scholarly Communication
Research Impact
Share & Archive Scholarly Works
Special Exhibits
Workshops



Feedback

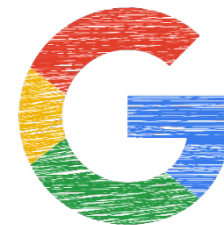
Your feedback matters. Please take a few minutes to tell us what you think

<https://bit.ly/RU-2223-Sem2>

Title: Googling Effectively for Your Research

Date: 17 MAR 2023

Time: 10am-1130am



Patrick.Pu@nus.edu.sg