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Amsterdam University of Applied Sciences

DIGITAL SOCIETY SCHOOL

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Carlo De Gaetano

## Web scraping tools medley

Tool medley http://bit.ly/DMItoolsmedley

- a diverse assortment or mixture
- a musical composition made up of a series of songs or short pieces

## **Intentions & Desired Outcomes**

- Give you some inspiration for the next sprint planning
- Book a timeslot (with me) to work together with the tools you would like to explore more













### https://wiki.digitalmethods.net/Dmi/ToolDatabase



Why scraping the web?

# internet as source of data about society

# 1994-2000 web as cyberspace

Jodi Dean, Aliens in America: Conspiracy Cultures from Outerspace to Cyberspace, 1998

With as many colors as you can get from your monitor Jaming some pages will take too long to load

# 2000-2007 web as virtual society

Steve Woolgar, Virtual Society?: Technology, Cyberbole, Reality, 2002

7191458104455168	1507510458	2017-10-09 00:54:18	utrendfashion	#fashion #lingerie Buy Now: \$6.5 Leg Avenue Female Fishnet Thigh Hi W/Elastic Top 9 https://t.co/g2cbOCtLQi https://t.co/oAMfIiugHv
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7382661068423173	1507556045	2017-10-09 13:34:05	maistrich	RT @circleeconomy: Use the hashtag #beyondblahblah and let the world know how you are #closingtheloop in #fashion. Learn more: https://t.co/BbzIOu6
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7392174072958976	1507558313	2017-10-09 14:11:53	aleemeza	I go the bran bran in #fashion by repairing my clothes, rather than cossing them. How do you go #beyondblahblah? #BeyondGreen2017 https://t.co/D1JcuC
7395028800081926	1507558993	2017-10-09 14:23:13	A_Campagnoni	Today's Fashion Industry News: https://t.co/VCLhfw2YOJ Thanks to @AMFI @n_tesra @jakescram27 #fashion #style
7401626788364290	1507560566	2017-10-09 14:49:26	jcvlugter	RT @circleeconomy: Use the hashtag #beyondblahblah and let the world know how you are #closingtheloop in #fashion. Learn more: https://t.co/BbzIOu6
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7449393653141504	1507571955	2017-10-09 17:59:15	LuahBenelli	Fashion in SL by Luah Benelli: neve e Vilda Poses https://t.co/amFIlfpJnH
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7507674480218113	1507585850	2017-10-09 21:50:50	sustainally	What is your solution to go #beyondblahblah? #sustainablefashion #noplastic #innovation #designthinking https://t.co/W1nID9VRnu

— a space for more than the study of online culture. The web as a site for the **study of social and cultural phenomena**.

Richard Rogers, Digital methods 2013. Richard Rogers Doing digital methods, 2019

# — we **look at Google results and see society**, instead of Google.

Richard Rogers, Digital methods 2013. Richard Rogers Doing digital methods, 2019

what are you looking at?











# US dominant devices information

Digital methods make use of available digital objects and seek to learn from how the objects are treated by the methods built into the dominant devices online.

# **Digital objects**

link, hashtag, like, share, time stamp, retweet ...

— Different web platforms and search engines each carry their own (often visually undisclosed) formats and formatting; they have their own **scenarios of use** and their own terms of service; further, they also output their own **results and rankings**.

Sabine Niederer, Networked Content Analysis: The Case of Climate Change, 2016



Solution Not logged in Talk Contributions Create account Log in

Q

8

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### Discussion

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### Languages

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Wikiversity		2 Causes
Print/export		2.1 Internal variability
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#### Climate change

From Wikipedia, the free encyclopedia

For current warming of the Earth's climate system due to human activities, see Global warming. For the study of past climate change, see Paleoclimatology. For temperatures on the longest time scales, see Geologic temperature record. For a list of most climate-related pages, see Index of climate change articles.

Climate change occurs when changes in Earth's climate system result in new weather patterns that remain in place for an extended period of time. This length of time can be as short as a few decades to as long as millions of years. The climate system comprises five interacting parts, the atmosphere (air), hydrosphere (water), cryosphere (ice and permafrost), biosphere (living things), and lithosphere (earth's crust and upper mantle). The climate system receives nearly all of its energy from the sun, with a relatively tiny amount from earth's interior. The climate system also gives off energy to outer space. The balance of incoming and outgoing energy, and the passage of the energy through the climate system, determines Earth's energy budget. When the incoming energy is greater than the outgoing energy, earth's energy budget is positive and the climate system is warming. If more energy goes out, the energy budget is negative and earth experiences cooling.

The energy moving through Earth's climate system finds expression in weather, varying on geographic scales and time. Long-term averages of weather in a region constitute the region's climate. Climate change is a long-term, sustained trend of change in climate. Such changes can be the result of "internal variability", when natural processes inherent to the various parts of the climate system alter Earth's energy budget. Examples include cyclical ocean patterns such as the well-known El Niño-Southern Oscillation and less familiar Pacific decadal oscillation and Atlantic multidecadal oscillation. Climate change can also result from external forcing, when events outside of the climate system's components nonetheless produce changes within the system. Examples include changes in solar output and volcanism.

Human activities can also change climate, and are presently driving climate change through global warming.<sup>[1]</sup> There is no general agreement in scientific, media, or policy documents as to the precise term to be used to refer to anthropogenic forced change; either "global warming" or "climate change" may be used.<sup>[2]</sup> The first describes the average effect on a global scale, whilst the second describes how different geographical regions are affected differently.

The field of climatology incorporates many disparate fields of research. For ancient periods of climate change, researchers rely on evidence preserved in climate proxies, such as ice cores.<sup>[3]</sup> ancient tree rings, geologic records of changes in sea level, and glacial geology. Physical evidence of current climate change covers many independent lines of evidence, a few of which are temperature records, the disappearance of ice, and extreme weather events.

	1 Terminology 2 Causes					
	2.1 Internal variability					
	2.1.1 Ocean-atmosphere variability					
	2.1.2 Random forcing					
	2.1.3 Life					
	2.2 External forcing mechanisms					
	2.2.1 Greenhouse gases					
	2.2.2 Orbital variations					
	2.2.3 Solar output					
	2.2.4 Volcanism					
	2.2.5 Plate tectonics					
	2.2.6 Other mechanisms					
	3 Study of past climates					
	4 Change in different elements climate system					
	4.1 Atmosphere					
	4.1.1 Surface temperature					
	4.1.9 Cloud aquar and provinitation					

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# Atmospheric physics

Atmospheric sciences

Atmospheric dynamics (category) Atmospheric chemistry (category)

Meteorology Weather (category) · (portal) Tropical cyclone (category) Climatology Climate (category) Climate change (category) Global warming (category) · (portal) Glossaries Glossary of meteorology · Glossary of tropical cyclone terms -Glossary of tornado terms ·

Glossary of climate change

V.T.E

### Images

Categories



Different research questions may lead you to different web spaces, but the same question can be explored **across different spaces** too.

# A linear process

Торіс

Data

Visualization

# A linear process?



# **Tool medley!**



LOLGIF.ru

**Search Engines** 



7 ore fa - Names in the news Jonathan Safran Foer: I've got no beef with his plan to save the

Climate change is the biggest threat we face. Learn everything about climate change: causes,

What is climate change and how does it affect us? - Acciona https://www.acciona.com > climate-change - Traduci guesta pagina

https://www.government.nl > topics > climate-change ~ Traduci questa pagina Scientists consider the continued increasing concentrations of CO2 emissions as the main cause

of climate change. Through this process, the temperature rises, ...

planet. Rebecca Nicholson. Published: 10:30 AM.

Climate change | Government.nl

consequences, solutions...

## "climate change" in **Google.com** and "cambiamento climatico" in **Google.it**

#### Google "climate change"

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Circa 351.000.000 risultati (0,70 secondi)

#### IPCC — Intergovernmental Panel on Climate Change https://www.ipcc.ch - Traduci questa pagina

The Intergovernmental Panel on Climate Change (IPCC) is the United Nations body for assessing the science related to climate change. Previous website ...

#### NASA: Climate Change and Global Warming

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streams about global warming and climate change from NASA. Climate change: How do we ... . The Effects of Climate Change - Images of Change

Le persone hanno chiesto anche	
What is climate change caused by?	~
What are the effects of climate change in the environment?	~
What is global warming and its effects?	~
What are the main causes of global warming?	~
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#### Effects | Facts - Climate Change: Vital Signs of the Planet https://climate.nasa.gov > effects - Traduci guesta pagina

The potential future effects of global climate change include more frequent wildfires, longer periods of drought in some regions and an increase in the number, ...

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#### Cambiamento climatico

In climatologia con i termini cambiamenti climatici o mutamenti climatici si indicano le variazioni del clima della Terra, ovvero variazioni a diverse scale spaziali e storico-temporali di uno o più ... Wikipedia

Ricerche correlate Visualizza altri 10 elementi V 200 Sostenibi Protezione Riscalda Scarsità Biodivers globale idrica ambientale Feedback

Vedi risultati per Riscaldamento globale In climatologia l'espressione riscaldamento globale indica il mutamento del clima ...



#### 1 Q

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Circa 3.410.000 risultati (0.52 secondi)



Focus

Video

1 giorno fa





Cambiamento climatico: viva gli scioperi, ma l'industria petrolifera potrebbe avere altri... Forbes Italia 2 giorni fa



In climatologia con i termini cambiamenti climatici o mutamenti climatici si indicano le variazioni del clima della Terra, ovvero variazioni a diverse scale spaziali e storico-temporali di uno o più ... Wikipedia





POTITO: Cambiamento Allerta ONU sul climatico: Potito, il Greta italiano, intervista - Ogni cosa è ... Rai

cambiamento climatico cambiamo il cambiamento climatico! LegambienteOnlus YouTube - 26 set 2019







#### Cambiamenti climatici | WWF Italy

→ Altri risultati per "cambiamento climatico"

https://www.wwf.it > il pianeta > cambiamenti climatici \* Il cambiamento climatico è una realtà e sta già provocando impatti e fenomeni di freguenza e intensità mai visti nella storia umana e con essi sofferenze, perdita Tutto sul clima · Effetti aumento CO2 · Ciclo del carbonio · Come reagisce la Natura

#### Cambiamento climatico - Wikipedia

https://it.wikipedia.org > wiki > Cambiamento climatico \* In climatologia con i termini cambiamenti climatici o mutamenti climatici si indicano le variazioni del clima della Terra, ovvero variazioni a diverse scale spaziali Descrizione - Mutamenti climatici nel ... - Mutamenti climatici attuali - Cause



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Ricerche correlate Visualizza altri 10 elementi V 200 Riscalda Scarsità Sostenihi Protezione Biodivers globale idrica ambientale Feedback

Vedi risultati per Riscaldamento globale

In climatologia l'espressione riscaldamento globale indica il mutamento del clima ...



Nature Climate Change 2019年9月16日 - Nature Climate Change is dedicated to publishing the most significant research across the physical and social sciences on the impacts of glo... https://www.nature.com/nclimate/ - 百度快照 - 翻译此页

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#### Climate Change - United Nations Sustainable Development

2019年7月23日 - United Nations Sustainable Development Goals - Time for Global Action for People and Planet https://www.un.org/sustainable ... - 百度快照 - 翻译此页

#### climate change 百度翻译

#### climate change

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- n. 气候变化;
- 碳排放加剧了全球气候变化问题。

#### 双语例句 英英释义

fanyi.baidu.com -

#### Climate change - OECD

Data and research on climate change including adaptation, climate finance, international climate framework, carbon markets, UNFCCC, cities, flood risk, Climat... www.oecd.org/env/... - 百度快照 - 翻译此页

#### "climate change" 百度图片





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5 中国篮协回应莫雷 新	534万
莫雷发布涉港言论	325万 1
7 张天爱桨板瑜伽 新	252万
3 邓肯助教首秀	232万
3 魏大勋用嘴扒蒜	212万 1
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In climatologia con i termini cambiamenti climatici o mutamenti climatici si indicano le variazioni del clima della Terra, ovvero variazioni a diverse scale spaziali e storico-temporali di uno o più ... Wikipedia



Vedi risultati per Riscaldamento globale



#### Rai 百度 气候变化 网页 资讯 视频 图片 知道 文库 贴吧 采购 地图 更多» 百度为您找到相关结果约37.800.000个 ▽ 掲索工具 气候变化的最新相关信息 英国亚洲问题专家:中国在脱贫和应对气候变化领域为... - 国际在线 1天前 他表示,新中国在70年的发展历程中取得了举世瞩目的成就,特别是在解决贫困问题和应对气 候变化领域为其他国家树立了典范。希迪齐出生在巴基斯坦,早年... 英国石油任命伯纳德·鲁尼接任CEO 应对气候变化挑战 新浪 1天前 气候变化致加拿大野熊饿得没了熊祥,当局给它们发鱼... 腾讯新闻 1天前 南极洲冰架断裂,1600平方千米冰山滑落,专家:与气候... 🕥 重庆青年报社 2天前 当谈到气候变化时 传统的多元化还不足以吸引房地产... 0551房产网 1天前 气候变化 | 联合国新闻 3天前-联合国秘书长古特雷斯今天在英国《卫报》等多家媒体上发表 的一篇署名专栏文章中指出,气候变化是一场不可阻挡的运动,现在已站 稳脚跟。 https://news.un.org/zh/news/to... - 百度快照 气候变化 百度百科 气候变化是指气候平均状态随时间的变化,即气候平均状态和离差 (距平)两者中的一个或两个一起出现了统计意义上的显著变化。离 差值越大,表明气候变化的幅度越大,气候状态越不。 简介 主要表现 原因 影响 国际应对 解决方案 更多>> haike haidu com/ -气候变化已到临界点?阿默里冰架崩裂!3150亿吨冰山滑入大海 2天前 - 研究人员认为,拉森C事件预示着"全球气候变化的一个临界点",是未来气候危机的一个象 征性的开端。果不其然,过去两年里南极洲冰山产犊事件接连不断.... https://new.gg.com/omn/2019100... - 百度快照 全球气候变化 百度百科 2019年5月20日 - 全球气候变化(Climate change)是指在全球范围内,



气候平均状态统计学意义上的巨大改变或者持续较长一段时间(典型的 为30年或更长)的气候变动。气候变化的原因可能是... ◎ 百度百科 - 百度快照

#### 气候变化-中国天气网



生态频道的宗旨是提供生态相关解决方案,传播生态资讯,普及生态知 识,宣传生态活动,促进公众对生态的了解和关注,为美好生态而努力。 www.weather.com.cn/cli... - 百度快照

#### 气候变化 百度图片



image.baidu.com - - 查看全部110,015张图片

#### 气候峰会将提出切实可行的应对气候变化措施 中国气象局 2019年9月20日 - 联合国常务副秘书长阿明娜·穆罕默德17日表示,这次峰会将提出切实可行的

相关现象			展开 ~
1	ß	Credethere.	<u> 19</u>
<u>全球气候变</u> <u>暖</u>	气候影响	历史气候	<u>厄尔尼诺暖</u> <u>流</u>
ALA V		115	- Ar
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-	<b>.</b>	24	N.S.
大气污染	拉尼娜	旱灾	自然灾害
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3 多地气温直	降10 °C		836万 🕇
4 篮协暂停火	箭合作 新		706万
5 中国机长票	房15亿		640万
5 邓肯助教首	秀斷		357万 🕇
7 美国电子烟	肺病		352万 🕇
3 湖人大胜勇	±		298万 🕇
3 张嗣瀛院士	逝世		261万 1
10 莫雷发布涉	港言论		256万 🕇
			查看更多>>

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百度一下

# Scraping search engines

## When is useful?

- When you have a topic and you'd like to see how this topic is presented across different countries or search engines.
- When you are studying a controversy and you want to map the distance from the top results of the different actors (ex: if I query "climate change" in Google.com, how much I have to scroll to find sign of climate movements? Of scientific warning? Of skeptic sources?
  - When you want to test the **resonance of specific terms within a curated list of sources** (es: you have an expert list of websites that talk about cyber bully, and you want to see how much they talk about different social media(ex: twitter, instagram, youtube, ...)

## The research browser

Depending on your research needs, use a research browser to avoid bias by stored cookies, personalisation settings and other factors that may change the results returned.

The DMI toolbar works in combination with the <u>Google Scraper</u> or <u>Lippmannian Device</u>, amongst other tools. Here we explain how the researcher can be disentangled from Google.

When using the Google scraper or Lippmannian Device with our Firefox toolbar, the researcher needs to take a few steps to ensure that day to day activities do not interfere with research.

- Consider installing a separate version of Firefox, a so called research browser, used solely for research purposes.
  - Alternatively use a specially created <u>Firefox profile</u> or install a <u>separate version of Firefox on a USB</u> stick.
  - See our video on setting up a research browser.
- In the research browser, make sure to log out of any Google services. See our video on <u>setting up Google for</u> research
- Even when logged out, Google personalizes search results based on a cookie in your browser. After logging
  out, go to <a href="https://www.google.com/history/optout">https://www.google.com/history/optout</a> and make sure 'Customization based on signed-out search
  activity is disabled.' Doing this
  - removes personalization on web-history
  - removes personalization on (social) network
  - retains localization on geography (e.g. .nl)
Past Jobs Output

## Search Engine Scraper

		-Search Engine Scraper, an Introduction
Enter key words, one per line: You can use the normal search query operators your chosen search engine su listed <u>on our wiki</u> . If you are looking for per-site results, try the <u>Lippmannian</u>	pports. Further considerations are <u>1 Device</u> .	Search Engine Scraper The Search Engine Scraper allows you to scrape the search results for a given search query, and has as output a list of results the search engine returned for the query. You can choose which search engine you want to scrape; this allows comparison between search engines and what results they return for the same query. In this there is some overlap with the <u>Lippmannian Device</u> , which also scrapes search results, but has the additional feature of offering a comparison of results <i>within a particular</i> <i>site</i> . If the per-site search is not required for your analysis, this tool - the
Ontions	This to all manines the use	a of Firefore with the DMI to all on installed and anothed
Viele ( )	This tool requires the use	e of Fifefox with the Divil toolbar installed and enabled.
Number of results per query (max 1000) 100	You need to re-install the	a avtancion if you've undated your browser and see this
Name your result file	Tou need to re-install the	reaction soo the EAO on
Search Engines:	https://wiki.digitalme	thods.net/Dmi/FirefoxToolBar
queries. Consider using another search engine when planning more than tensor Bing	s of queries.	
Advanced options for Bing Scrape Search Results		

A	В	С	D	E	F	G	Н	I	J
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2	google	"climate mov	Climate Strike: Prot	https://www.buzzfee	Other climate movements, most not	12100	20 set 201	n/a	n/a
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4	google	"climate mov	Peace and climate	https://ppu.org.uk/n	Peace and climate movements urge	12100	n/a	n/a	n/a
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8	google	"climate mov	Sezione Giovani   It	https://www.italiacli	young people are leading hundre	12100	n/a	n/a	n/a
9	google	"climate mov	In Paris, the Climate	https://rebellion.ear	which wanted to absolutely divide u	12100	4 giorni fa	n/a	n/a
10	google	"climate mov	Routledge Handboo	https://www.routled	The range of contributors, from well	12100	n/a	n/a	n/a
11	google	"climate mov	Climate Protest Lab	https://digitalsociety	How can we create open and acces	12100	n/a	n/a	n/a
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22	google	"climate mov	Routledge Handboo	https://www.routled	The range of contributors, from well	12100	n/a	n/a	n/a
23	google	"climate mov	CLIMA Fund - Tho	https://thousandcur	Whitman Institute, the Weissman	12100	n/a	n/a	n/a
24	google	"climate mov	Youth Climate Move	https://saveourshor	Youth Climate Movements - Overvie	12100	n/a	PDF	n/a

# Are there distinctive rights that reach the top results in different Google versions?

Google.se with query "rattigheter" (13.07.09) Google.fi with query "oikeudet" (13.07.09) Google.ee with query "oigused" (15.07.09) Google.lv with guery "tiesibas" (16.07.09) Google.co.uk with query "rights" (13.07.09) Google.nl with query "rechten" (13.07.09) Google.be with guery "rechten van" (15.07.09) Google.be with query "droits" (14.07.09) Google.lu with query "rechte" (15.07.09) Google.de with query "rechte" (15.07.09) Google.at with query "rechte" (15.07.09) Google.ch with query "rechte" (15.07.09) Google.fr with query "droits" (14.07.09) Google.pt with query "direitos" (14.07.09) Google.es with query "derechos" (13.07.09) Google.it with query "diritto al" OR "diritto all" OR "diritto alla" (13.07.09) Google.ro with guery "drepturile" (13.07.09) Google.mo with guery "drepturile" (13.07.09)

Google.ru with query "prava" (13.07.09) Google.com.tr with query "haklari" (17.07.09) Google.jp with query "\x{6a29}\x{c801}" (16.07.09) Google.hk with query "\x{6b0a}\x{c801}" (17.07.09) Google.com.ph with query "karapatang" (16.07.09) Google.ci with query "droits" (17.07.09) Google.com.au with query "rights" (14.07.09) Google.ca with query "rights" (15.07.09) Google.ca with query "rights" (15.07.09) Google.com with query "rights" (14.07.09) Google.com with query "derechos" (15.07.09) Google.com.mx with query "derechos" (15.07.09) Google.com.br with query "derechos" (15.07.09) Google.ar with query "derechos" (15.07.09) Google.ar with query "derechos" (15.07.09) Google.ar with query "derechos" (15.07.09)



## https://tools.digitalmethods.net/beta/lippmannianDevice/

## Lippmannian Device

Enter URLs:	The Lippmannian device is named Walter Lippmann, and provides a
(Make sure the URLs start with http:// or https://)	coarse means of showing actor partisanship.
(Or harvest URLs from a body of text. See harvester functionality)	
<ul> <li>Only query discrete sites (recommended).</li> <li>Checking this option chops all URLs to their host name and then removes duplicate hosts from those. For example, if you enter http://www.un.org and http://www.un.org/issues/m-child.html, priorino is checked only one query is performed for the site http://www.un.org.</li> <li>Not checking this option will thus indicate whether the keywords provided below exist on a given han host). However, when entering URLs with a question mark everything behind the question isscarded by Gogle. For example, when entering http://www.unnehemond.unl.</li> <li>Fag cloud for 'site:' queries generate defined the generate defined to the site http://www.uncleumond.inl.</li> <li>Check they words, one per line:</li> <li>You can use the normal search query operators your chosen search engine sur http://wesult.</li> </ul>	The Lippmannian Device queries a search engine of your choice and makes the results available for further analysis. In the top text box, place the <u>source set</u> , in this case a list of URLs. In the bottom text box, place key words. The search engine will be asked if each keyword occurs in each URL. Results are displayed as a tag cloud and an html table. They also are written to a text file which you can access at the bottom or through previous results. Harvester feature: In the top box, you may also place a combination of URLs and text, and the URLs will be fetched out of the text and queried for the key words placed in the bottom box. Detailed instructions of use and use cases are <u>available</u> . To merge divided scrapes from the same project together, use the Lippmannian Merge tool. If you are interested in overall (rather than per-site) search results, try the <u>Search</u> quires the use of Firefox with the DMI toolbar installed and enabled. or <b>e</b> -install the extension if you've updated your browser and see this por more information see the FAQ on ki.digitalmethods.net/Dmi/FirefoxToolBar
Options: Number of results per query (max 1000)	
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Options:         Number of results per query (max 1000)         100         Name your result file         Search Engines:         Note that Google and Yandex are known to require you to fill in CAPTCHAs after a small number queries. Consider using another search engine when planning more than tens of queries.	rof automated
Options:         Number of results per query (max 1000)         100         Name your result file         Search Engines:         Note that Google and Yandex are known to require you to fill in CAPTCHAs after a small number queries. Consider using another search engine when planning more than tens of queries.         Bing       \$\Proceed{mathcap}\$	r of automated
Options:         Number of results per query (max 1000)         100         Name your result file         Search Engines:         Note that Google and Yandex are known to require you to fill in CAPTCHAs after a small number gueries. Consider using another search engine when planning more than tens of queries.         Bing       Image: Consider using another search engine when planning more than tens of queries.         Bing       Advanced options for Bing	r of automated

## To what extent are climate change 'skeptics' present in the climate change spaces on the Web?



#### Climate Change Sceptics on the Web (Patrick Michaels)

climatescience.gov (7)

Research Question\_To what extent are climate change 'skeptics' present in the climate change spaces on the Web? Findings\_There is distance between the skeptics and the top of the search engine returns.

> bom.gov.au (0) ipcc.ch (4) pewclimate.org (2) epa.gov (0) bbc.co.uk (0) defra.gov.uk (0) panda.org (0) mfe.govt.nz (0) ec.gc.ca (0) exploratorium.edu (0) climatechange.com.au (0) davidsuzuki.org (0) guardian.co.uk (0) g8.gov.uk (0) greenpeace.org (0) climatechallenge.gov.uk (0) iisd.org (0) campaigncc.org (3) foe.co.uk (0) eea.europa.eu (0) cbc.ca (0) marshall.org (2) climateark.org (1) dar.csiro.au (0) energy.gov (0) acfonline.org.au (0) gcrio.org (0) nature.com (0) grida.no (0) nature.org (0) ecokids.ca (0) ecy.wa.gov (0) iea.org (0) ecn.ac.uk (0) climatechangecentral.com (0) realclimate.org (45) fags.org (0) metoffice.gov.uk (0) open2.net (0) eldis.org (0) ft.com (0) climatecrisis.net (1) Itscotland.org.uk (0) abc.net.au (0) climatechange.ca.gov (0) envirolink.org (0) mofa.go.jp (0) iucn.org (0) dfat.gov.au (0) ncdc.noaa.gov (0)

> > climatechangecollege.org (0)

Source\_google.com Query\_"Patrick Michaels" Method\_Search for query "Patrick Michaels" in top 100. Organized in order. Tools\_Google Scraper and Tag Cloud Generator Date 30 July 2007 Product\_of the Digital Methods Initiative, dmi.mediastudies.nl. Analysis\_by Bram Nijhof, Richard Rogers and Laura van der Vlies. Design Anne Helmond.



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ciel.org (0)

#### Climate Change Sceptics on the Web (Timothy Ball)

Research Question\_To what extent are climate change 'skeptics' present in the climate change spaces on the Web? Findings\_There is distance between the skeptics and the top of the search engine returns.

> epa.gov (0) bbc.co.uk (0) defra.gov.uk (0) unep.org (0) bom.gov.au (0) pewclimate.org (0) ipcc.ch (0) davidsuzuki.org (0) panda.org (0) mfe.govt.nz (0) ec.gc.ca (0) exploratorium.edu (0) climatechange.com.au (0) greenpeace.org (0) climatechallenge.gov.uk (0) guardian.co.uk (0) iisd.org (0) g8.gov.uk (0) campaigncc.org (6) foe.co.uk (0) state.gov (0) scidev.net (0) eea.europa.eu (0) whoi.edu (0) cbc.ca (0) marshall.org (2) dar.csiro.au (0) theglobeandmail.com (0) climateark.org (0) un.org (0) energy.gov (0) acfonline.org.au (0) gcrio.org (0) nature.com (0) grida.no (0) nature.org (0) ecokids.ca (0) royalsoc.ac.uk (0) iea.org (0) ecn.ac.uk (0) ecy.wa.gov (0) worldwildlife.org (0) realclimate.org (0) climatechangecentral.com (0) fags.org (0) metoffice.gov.uk (0) open2.net (0) scienceagogo.com (0) eldis.org (0) ft.com (0) who.int (0) climatecrisis.net (0) Itscotland.org.uk (0) abc.net.au (0) climatechange.ca.gov (0) envirolink.org (0) mofa.go.jp (0) sourcewatch.org (0) iucn.org (0) dfat.gov.au (0) ncdc.noaa.gov (0) climatescience.gov (0) ciel.org (0) climatechangecollege.org (0) ucar.edu (0)

Source\_google.com Query\_"Timothy Ball" Method\_Search for query "Timothy Ball" in top 100. Organized in order. Tools\_Google Scraper and Tag Cloud Generator Date 30 July 2007 Product\_of the Digital Methods Initiative, dmi.mediastudies.nl. Analysis\_by Bram Nijhof, Richard Rogers and Laura van der Vlies. Design Anne Helmond.



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## **Google Image Search**

## ranked images



sources



## Scraping Google Image Search

## When is useful?

- When you want to explore the **visual representation** of a certain topic (ex: show climate change imagery over time)
- When you want to **follow the dissemination of specific images** online.

### https://tools.digitalmethods.net/beta/googleImages/

## Google Image Scraper

nput					
-p					
Number of results:					
100					
URLs:					
Key words (separated by	commas):			_	
"climate change"					
				//	
Return images published					
Anytime					
between 01/09/20	019	and 06/10	)/2019		
(date format is day-mont	h-year)				
Scrape images					

#### Google Image Scraper, an Introduction

Query images.google.com with one or more keywords, and/or use images.google.com to query specific sites for images.

This script queries *images*.google.com for each keyword given. In the big text box you can put some text where the urls will be harvested from. For each url in this textbox google will be queried for each keyword, so google will be asked if each keyword occurs on each url (in google you would have to enter for each keyword and each url: 'keyword site:url').

This tool queries sets of 20 till the max nr of results of google or the max nr of user defined results is reached. If all scrapes are done a list with urls for all the images is displayed

Warning: google uses it's own algorithms for determing if a certain image belongs to a certain keyword. This is by no means exhaustive, correct or complete. An other way to get labels for images in a certain page is through checking the html 'alt'-attributes of an image. You can try this with the <u>Image Scraper</u>.

A	В	С	D	<b>۱</b>	F	G	Н	I	J
query	searched site	rank	thumbnail	url u	rl which	n contains	image		
"climate change" bet	ween 2019-09-01 and 2019-10-06	1	http://to.gstatic.com/im	nages?q=1 htt	ps://climate.nasa	.gov/effects/			
"climate change" bet	ween 2019-09-01 and 2019-10-06	2	http://to.gstatic.com/im	nages?q=1 htt	ps://public.wmo.	int/en/media/press-re	lease/state-of-climate	-2018-shows-accelera	ting-climate-change-i
"climate change" bet	ween 2019-09-01 and 2019-10-06	3	http://to.gstatic.com/im	nages?q=1 htt	ps://climate.nasa	.gov/causes/			
"climate change" bet	ween 2019-09-01 and 2019-10-06	4	http://to.gstatic.com/im	nages?q=1 htt	ps://grist.org/art	icle/some-economics-r	nerds-just-realized-ho	w-much-climate-chan	ge-will-cost-us/
"climate change" bet	ween 2019-09-01 and 2019-10-06	5	http://to.gstatic.com/im	nages?q=1 htt	ps://time.com/56	51393/why-your-brain	n-cant-process-climate	e-change/	
"climate change" bet	ween 2019-09-01 and 2019-10-06	6	http://to.gstatic.com/im	hages?q=1 htt	ps://davidsuzuki.	.org/what-you-can-do/	what-is-climate-chan	ge/	
"climate change" bet	ween 2019-09-01 and 2019-10-06	7	http://to.gstatic.com/im	hages?q=1 htt	ps://www.scienti	ficamerican.com/articl	e/10-solutions-for-cli	mate-change/	
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## LIFE This Video Breaks Down The Best Ways To Fight Wrinkles



ๆ นอกใจสาเหตุอาจจะมาจากเราด้วยก็เป็นได้ ที่ปล่อยตัวเองเป็นยายป้า ลงพุง ผิวหยาบกร้าน ไม่ได้เลยค่ะ ต้องลูกขึ้นมา ้เงเสน่ห์ความสวยของเราออกมา ให้ผู้ชายรู้ไปเลยฉันไม่ใช่ของตายของนายคนเดียวนะยะ! อย่ามานิสัยแบบนี้ เชื่อเถอะเค้า น่ารักขนาดนี้ ชิมิ



#### **PARTITI & POLITICA**

#### Corriere della Sera

Il governo di Parigi: «Le battute di Di Maio e Salvini non hanno evitato all'Italia di entrare in recessione» a

8/2/2019 - 13:07 ( 7 commenti)

f Condividi





## No Expo: guerriglia al corteo di Milano, auto in fiamme

## https://tools.digitalmethods.net/beta/googleReverseImages/

Input			1 [	Google Reverse Image scraper, an Introduction			
				Scrape Google for occurance of images			
Enter image URLs (1 per line, including http://	- e.g. http://www.ir	mages.com/tree.jpg):					
			The Google Reverse Image scraper allows one to retrieve the results of				
			images.google.com for a set of image URLs. The resulting CSV file contains				
				the web locations on which the image is found. The images will always be			
				similar, but may have different dimensions. The CSV file will include fields			
				with the webpage title, description, the image UKL in the result page,			
				image dimensions, dates and more.			
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Local Google domain:	en 🛊			Under advanced options, the most important option allows one to restrict			
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Scrape Google Images		https://wiki.digitalmet	tho	ds.net/Dmi/FirefoxToolBar			
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			1	what Google reports as an estimate on the first search result page. Google			
				will return a maximum of about 700 results per image, even if the estimate			
				is higher. Again, this is identical to the normal interface.			
				The tool is quite slow as Google only provides 10 results per page. The tool			
				thus have to make a lot of requests to Google.			
				······································			
				Research browser			
				Note that this tool makes use of the DMI Toolbar so that the requests to			
				Google happen via your own browser. Your own browser and Google			
				settings may thus interfere. Please make sure to use a clean browser by			
				deleting all cookies or, preferably, download a new browser for research			
				purposes. See [[FirefoxToolBar]			
				[https://wiki.digitalmethods.net/Dmi/FirefoxToolBar]] for more			
				information on how to properly set up your browser and Google settings			
				IOF research.			

### Google Reverse Image scraper

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## Scraping Twitter

## When is useful?

When you want to explore how the discussion around your topic of research is shaped in terms of different sub topics (which other hashtags and words are used within the topic space? Is there a contended space btw program/anti program (ex: #metoo VS #himtoo)?

When you want to see which actors are more involved in the discussion (Which are the most prominent users? Which have authority (are mentioned the most?)

Which sources are cited/retweeted the most in the discussion?

Which media are the most engaging in the space? (Most liked/shared images and videos)

Is the discussion changing over time? (look at before/after an event, ex: Trump's withdrawal from Paris Agreement)

### DMI Twitter Capturing and Analysis Toolset (DMI-TCAT)

Data selection			
Select the dataset:			
globalwarming 474.403	tweets from to 2017-12-15 09:57:38	٥	1.561.814.631 tweets archived so far (and counting)
Select parameters:			
Query:		(empty: containing any text*)	
Exclude:		(empty: exclude nothing*)	
From user:		(empty: from any user*)	
Exclude user:		(empty: exclude no users*)	
User bio:		(empty: anything in biography*)	
User language:		(empty: any language*)	
Tweet language:		(empty: any language*)	
Twitter client URL/descr:		(empty: from any client*)	
(Part of) URL:		(empty: any or all URLs*)	
(Part of) media URL:		(empty: any or all media URLs*)	
Startdate (UTC):	2019-10-02	(YYYY-MM-DD or YYYY-MM-DD	HH:MM:SS)
Enddate (UTC):	2019-10-03	(YYYY-MM-DD or YYYY-MM-DD	HH:MM:SS)
update overview	The server is ready for your requests		
* You can also do AND or O	DR queries, although you cannot mix AND and OR in the same query.		

#### Output format for tables:

#### Tweet statistics and activity metrics

All statistics and activity metrics come as a .csv file which you can open in Excel or similar.

```
Here you can select how the statistics should be grouped:
```

```
overall per minute per hour o per day per week per month per year custom: YYYY-MM-DD;YYYY-MM-DD;...;YYYY-MM-DD
```

#### **Tweet stats**

Contains the number of tweets, number of tweets with links, number of tweets with hashtags, number of tweets with mentions, number of retweets, and number of replies Use: get a feel for the overall characteristics of you data set.

» launch

#### User stats (overall)

Contains the min, max, average, Q1, median, Q3, and trimmed mean for: number of tweets per user, urls per user, number of followers, number of friends, nr of tweets, unique users per time interval

Use: get a better feel for the users in your data set.

» launch

#### User stats (individual)

Lists users and their number of tweets, number of followers, number of friends, how many times they are listed, their UTC time offset, whether the user has a verified account and how many times they appear in the data set.

Use: get a better feel for the users in your data set.

» launch

#### Hashtag frequency

Contains hashtag frequencies.

Use: find out which hashtags are most often associated with your subject.

» launch

#### Hashtag-user activity

Lists hashtags, the number of tweets with that hashtag, the number of distinct users tweeting with that hashtag, the number of distinct mentions tweeted together with the hashtag, and the total number of mentions tweeted together with the hashtag.

Use: explor user-hashtag activity.

» launch

#### Twitter client (source) frequency

Contains source frequencies



← → C	tcat.digitalmethods.net/	analysis/index.	php?dataset=drones
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### ☆ 🛃 🦑 🔒 🔂 a 🐵 🛛 🔳

#### DMI Twitter Capturing and Analysis Toolset (DMI-TCAT)

» github	» issues	» FAQ	» admin
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Data selection			
Select the dataset:			
drones 13.861.271 tv	weets from 2011-11-16 10:45:40 to 2014-11-28 15:09:37	•	802.993.942 tweets archived so far (and counting)
Select parameters:			
Query:		(empty: containing any text*)	
Exclude:		(empty: exclude nothing*)	
From user:		(empty: from any user*)	
From twitter client:		(empty: from any user*)	
(Part of) URL:		(empty: any or all URLs*)	
GEO bounding polygon:		(POLYGON in WKT format.)	
Startdate:	2014-11-26	(YYYY-MM-DD or YYYY-MM-DD HH:MM:SS	)
Enddate:	2014-11-27	(YYYY-MM-DD or YYYY-MM-DD HH:MM:SS	)
update overview			
* You can also do AND or	OR queries, although you cannot mix AND and OR in the sar	ne query.	

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	Overview of your selectic										
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	Exclude:	containing links									
	From user:	containing no links									
	From twitter client:	96.5%									
	(Part of) URL:										
	GEO polygon:										
	Startdate:	2014-11-26									
	Enddate:	2014-11-27									
	Number of tweets:	93.229									
I	Number of distinct users	RA 103									

### DMI-TCAT: overview of analytical modules

## https://www.youtube.com/watch?v=ex97eoorUeo

## Twitter's retort to Trump: before and after the Paris announcement

For more on this research, visit bit,ly/ChangingVisVer

Poster by Carlo De Gaetano (Amsterdam University of Applied Sciences) & Warren Poarce (University of Sheffeld) email: warren.pearce@sheffeld.ac.uk

This project sought to identify the most visible Twitter users before and after one of the most critical events in recent climate politics: President Trump declaring his intent on 01/06/17 to withdraw from the Paris Agreement. The lead-up to, and aftermath of, the much-anticipated announcement brought an unprecedented social media focus to the issue of climate change, providing an opportunity for debate and a strong 'retort' to Trump and his supporters from an emerging counterpublic. Alongside the familiar politicians and public figures (e.g @BernieSanders, @EmmanuelMacron, @ElonMusk), the visualisation shows the importance of comedy as part of the Twitter retort to Trump. For example, @TeaPainUSA and @michelleisawolf both satirised the Republican party's dismissal of climate change as a policy issue:

Michelle Wolf @ Congressman: god will take care of climate change.

God: bitch I sent you scientists. 2:22 AM - Jun 2, 2017 - Twitter for iPhone

76K Retweets 175.9K Likes

However, it was a lesser-known Twitter user, @larrymatovina, who provided the most circulated tweet of the period, combining multi-modal communication (text and imagery), platform-specific practices (screenshotting) and memefication (the adaptation of the most-retweeted tweet of all time: 'nuggets for Carter'). While we cannot be sure exactly why the tweet was so successful it is notable that, although the screenshot is faked, the notion that Trump might re-enter the Paris Agreement on the basis of retweets did perhaps strike a chord, bearing in mind his attachment to the platform. The tweet's popularity also highlights the diversity and unpredictability of Twitter's commentary on critical news events, disrupting the usual hierarchy and style of media commentary.





#### Original project team:

Facilitators Sabine Niederer, Warren Pearce

er Bansard, Jennifer Colombari, nus Type Haarley. Pieter Vijegenthan Design Federica Bardelli, Carlo De Gaetano, Michele Mauri





S Amsterdalu Charles Amsterdam University

Methodologies

Collective









comments

## Scraping Instagram

## When is useful?

- When you want to explore a more bottom up visual vernacular around a topic.
- When you want to collect data around a specific location or event
- When you want to look at possible presence of fakeness in the content or in the follower base of certain accounts

## https://wiki.digitalmethods.net/Dmi/ToolInstagramScraper

Past Jobs | Output

## Instagram Scraper

Innut
input
You can scrape Instagram by username, hashtag or location. If you scrape by hashtag or location, note that results are limited to approximately 10000 photos per query. As each scrape takes a considerable amount of time, you are furthermore limited to either 25 usernames or 25 hashtags/locations - further input will be ignored.
Note that your scrapes are publicly available via the menu at the top of the page.
Query mode:
Hashtags 🗘
Posts to scrane per query (max: 10000):
10000
Hashtags (one per line, leading "#" is optional):
Result file name (leave empty for default):
Queue scrape

-Instagram Scraper, an Introduction

Retrieves Instagram images for hashtags, locations, or user names.

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#### #zerowaste



#### #plasticfree



#### #peace



#### #sustainableliving



#### #renewableenergy



#### #sustainablefashion



#### #globalwarmingisreal







Top 10 posts for #vegan

Top 10 posts for #renewableenergy


#bethechange #rotring #dark #fabercastes #skate #savageaf #weed //photesyntheseteine #news #weedporn #offensiviplipeep #worldstar #weedintlawesrfollow #sk8 #unioftellagds #naturetalkedart sjunkart #industPlainkdcasteagwar #university #biology unour dakenalerial #drawing #nostalgy #war ##bumagitarian #deforestation #offensivememes #pophilaviborelanetearth #hemp #420 #cringe #reciperoil #artist #giger #turbip@naginad #change #1000 ways a schange the world #love #vitamin #crop #usehemp #relatable #natural #food #organic #gallery #sky Winterovoltaica #health #climateaction #solarenergy #world #science #entrepreneur tractonclimate #happy #art aily #travenetworking #musiclegend #pollution #fashionistas? #energy #entreprenewsinvironmentalist #nudibranch #solarpower #thinwhitedikkowsetq #bowie #startiosadenprofitorganization #neocapitalism/#aellstases #climatechangeisreal #earth #nonp#staveler #renewableenergy standtogel/enhouseeffect #conspicuousconsumption #climate #el-materiasruption #planet Handscape #life cleanenergy ceanapidilicationan #reducereuserecycle #instagood #veganlifestyle #natur#environment #clothing #trees #environmentallyfriendly #plastic sucks #recyler #climat #agriculture #instaclimatechange #vood #zerodechet #retoheldforse uceveroopementdurable #sustainbilityplastic #netzer#12yearsleft #warszawa #oceans #photograge#liketaclimate #voice#empower #actions #climateiustice #greenlife #design #photooftheday #planetfeedly Huntherekind #saveouroceans 2050 statteethand yoyp photootheripoetalike4like #architecture intergenerationalicistice #sustainability #20likes #engastethechallenge #trave #warsawlikeforfollow *Minaturephotography* #ecology #conservationawable #green #fashion #zerowaste #community #ecofriendly #trend #ocean #follow "southedwing #animals #artistsoninstagram #apparel #creative #gogreen #streetwear #cloth@s1425149brand #beautiful #reduc#recycle ##biodegradable #fashionable #sustainable #fish #fashionforgeghric #fashionbrand #savetheplanet #tshirt #babyshark #plasticpollution #textile #circular #value#5149 #streetstyle #penguin #extinction #plasticfreeuse #sea #wecare #futuregene#algaisatheloop #deep #cute #king #deepbftsavetheseas agreentiving #activism #saveourplanet #sustainableliving #sustainablefashimastic #marine #eco #shark #culture manufactoresembling

Top 20 most liked Instagram posts per hashtag





https://phantombuster.com/api-store/7175/instagram-follower-collector

Youtube



# Scraping Youtube

# When is useful?

- When you would like to know which are the most engaging videos related to your topic of research
- To which other content the videos you are analysing are related by the Youtube algorithm
- Which channels are the most prominent
- How channels relate to each other (media space)
- To dive into the comment space!

## YouTube Data Tools

#### blog software research DMI about

#### Home Channel Info Channel Network Video List Video Network Video Info FAQ

This is a collection of simple tools for extracting data from the YouTube platform via the YouTube API v3.

For some context and a small introduction, please check out this blog post.

Each of the modules has a basic description of how it works, there is a FAQ section with additional information, and an introductory video.

If you use this tool in a scientific publication, please cite it, e.g. in APA style: Rieder, Bernhard (2015). YouTube Data Tools (Version 1.11) [Software]. Available from https://tools.digitalmethods.net/netvizz/youtube/.

#### Modules

#### **Channel Info**

This module retrieves different kinds of information for a channel from a specified channel id.

launch

#### **Channel Network**

This module crawls a network of channels connected via the "featured channels" (and via subscriptions) tab from a list of seeds. Seeds can be channels retrieved from a search or via manual input of channel ids.

launch

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# create a dataset of videos starting from a query

Parameters

Cho	Choose a way of making a list:							
0	Channel id:		(channel ids can be found in URLs, e.g. https://www.youtube.com/channel/UCiDJtJKMICpb9B1qf7qjEOA)					
0	Playlist id:		(playlist ids can be found in URLs, e.g. https://www.youtube.com/playlist?list=PLJtitKU0CAehMmiSI9oCIv3WCJrZqMWZ0)					
0	Search query:	climate change	(this is passed to the search endpoint) optional ISO 639-1 relevance language: optional ISO 3166-1 alpha-2 region code: (default = US)					
	Iterations:	1	(max. 10, one iteration gets 50 items)					
	Published:	<ul> <li>limit search to videos published in a specific timeframe (format: yyyy-mm-ddThh:mm:ssZ - timezone: UTC):</li> <li>after: 1970-01-01T00:00:00Z</li> <li>before: 1970-01-01T00:00:00Z</li> <li>make a search for each day of the timeframe (can yield many more videos, use wisely)</li> </ul>						
	Rank by:	relevance - Resources are sorted based on their relevance to the search query						

Manual selection:

(video ids, comma separated)

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2	UCNye-wNBqNL	5Z: Al Jaze	era English	BWJBOw	vSa4h8 20	19-09-23T17:30:00.	0 2019-09-23 17:30	:00	Is it too late to stop	We're running ou	t of time to sto		25	News & Politics	PT24M26S
3	UC8p1vwvWtl6T7	3. CBS N	ews	<b>IQpIVsxx</b>	014 20	19-09-26T00:55:41.	0 2019-09-26 00:55	:41	U.N. report warns o	A new United Na	tions report wa		25	News & Politics	PT7M30S
4	UCX15yQQOgUI	NFA Curre	ent Affair	CzJVuq9	lcTk 20	19-10-04T02:17:36.	0 2019-10-04 02:17	:36	Dad pulls son from	A fed-up father h	as pulled his s		25	News & Politics	PT4M27S
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1466 2	2d h	d	FAL	SE http	ps://i.ytimg	<u>.cor</u> 1	35664		620 8	7	0	582	25	News & Politics	PT5M56S
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170 2	2d h	d	FAL	SE http	ps://i.ytimg	.cor 1	37106		408 66	0	0	872	28	Science & Technology	PT10M39S
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356 2	2d s	d	FAL	SE http	ps://i.ytimg	.com/vi/Tba3g-ASJd	3704		147 1	6	0	490	29	Nonprofits & Activism	PT16M35S
585 2	2d h	d	TR	UE <u>http</u>	ps://i.ytimg	. <u>cor</u> 1	1469936	50	741 220	9	0	5075	25	News & Politics	PT9M45S
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185 2	2d h	d	FAL	SE http	ps://i.ytimg	. <u>cor</u> 1	1081956	10	788 52	4	0	1227	25	News & Politics	PT59M34S
318 2	2d h	d	FAL	SE <u>http</u>	ps://i.ytimg	.cor 1	21772		348 28	3	0	1265	27	Education	PT42M26S
465 2	2d h	d	FAL	SE http	ps://i.ytimg	.cor 1	89169	2	340 29	5	0	534	25	News & Politics	PT6M39S
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118 2	2d s	d	FAL	SE			403		17	4	0	25	25	News & Politics	PT4M31S
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3574 2	2d h	d	FAL	SE		1	74794	1	397 9	7	0	635	25	News & Politics	PT31M39S
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# create a dataset of related videos starting from a query or video IDs

#### Video Network Module

This module creates a network of relations between videos, starting from a search or a list of video ids. It will also generate a network of channels based on the same relations. (If a video from one channel points to the video of another channel, an edge is created and the more often that happens, the more weight the connection gets.)

It retrieves "related videos" from the search/list#relatedToVideoId API endpoint and creates a graph file in GDF format.

Crawl depth specifies how far from the seeds the script should go. Crawl depth 0 will get only the relations between seeds. Using many seeds and the maximum crawl depth (2) can take a very long time or the script will very probably run out of memory. Start small.

#### Parameters

1) c	1) choose a starting point:								
0	Search query:	climate change	(this is passed to the search endpoint) optional ISO 639-1 relevance language: optional ISO 3166-1 alpha-2 region code: (default = US)						
	Iterations:	1	(max. 10, one iteration gets 50 items)						
	Rank by:	relevance - Resources are sorted based on their relevance to the search query							
	Published:	<ul> <li>limit search to videos published in a specific timeframe (format: yyyy-mm-ddThh:mm:ssZ - timezone: UTC):</li> <li>after: 1970-01-01T00:00:00Z</li> <li>before: 1970-01-01T00:00:00Z</li> </ul>							
0	Seeds:		(video ids, comma separated)						
2) set additional parameters:									
	Crawl depth:	1	(values are 0, 1 or 2)						



Socialistische Partij (SP) 2,031 subscribers	Partij voor de Dieren 2672 subscribers	Democraten66	SOPLUS TV 156 subscribers	ChristenUnie 616 subscribers	CDA © 892 subscribers	GroenLinks 3,032 subscribers	SGP 1,533 subscribers	VVD @ 2.529 subscribers	PVVpers	DENK TV 7,436 subscribers	Forum Democratie	Partij van de Arbeid (PvdA) 1,372 subserbers
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LIST OF MOST IMPORTANT NEWS ORGANIZATIONS (RELATED CHANNELS)





# Scraping Facebook?

# Netvizz

A tool that extracts data from different sections of the Facebook platform – in particular groups and pages – for research purposes since 2010; due to API and ToS changes, the feature set has changed over the years. Facebook removed page data access on Sept. 4, 2019 and Netvizz is no longer functional.

launch tool intro video

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# Wikipedia



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## History

Read View source View history Search Wikipedia

#### Discussion

#### WIKIPEDIA The Free Encyclopedia

Main page Contents Featured content Current events Random article Donate to Wikipedia Wikipedia store Interaction Help About Wikipedia

Community portal

Recent changes

What links here

**Belated** changes

Upload file

Special pages

Permanent link

Wikidata item

Cite this page

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Wikimedia

Wikibooks

Wikinews

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Itoliano

Nederlands नेपाली Türkce 中文 ≭A 70 more

Page information

Contact page

Tools

ToC

### Languages

wikinews		Contents [
Wikisource		1 Terminology
Wikiversity		2 Causes
Print/export		2.1 Internal variability
Country of basely		2.1.1 Ocean-atmo
Create a book		2.1.2 Bandom for
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Printable version		2.1.3 Lite
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Languages	0	2.2.1 Greenhouse
Dansk		2.2.2 Orbital varia
Deutsch		223 Solar output
Francais		
Pahasa Indonesia		2.2.4 Voicanism
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#### Climate change

From Wikipedia, the free encyclopedia

For current warming of the Earth's climate system due to human activities, see Global warming. For the study of past climate change, see Paleoclimatology. For temperatures on the longest time scales, see Geologic temperature record. For a list of most climate-related pages, see Index of climate change articles.

Climate change occurs when changes in Earth's climate system result in new weather patterns that remain in place for an extended period of time. This length of time can be as short as a few decades to as long as millions of years. The climate system comprises five interacting parts, the atmosphere (air), hydrosphere (water), cryosphere (ice and permafrost), biosphere (living things), and lithosphere (earth's crust and upper mantle). The climate system receives nearly all of its energy from the sun, with a relatively tiny amount from earth's interior. The climate system also gives off energy to outer space. The balance of incoming and outgoing energy, and the passage of the energy through the climate system, determines Earth's energy budget. When the incoming energy is greater than the outgoing energy, earth's energy budget is positive and the climate system is warming. If more energy goes out, the energy budget is negative and earth experiences cooling.

The energy moving through Earth's climate system finds expression in weather, varying on geographic scales and time. Long-term averages of weather in a region constitute the region's climate. Climate change is a long-term, sustained trend of change in climate. Such changes can be the result of "internal variability", when natural processes inherent to the various parts of the climate system alter Earth's energy budget. Examples include cyclical ocean patterns such as the well-known El Niño-Southern Oscillation and less familiar Pacific decadal oscillation and Atlantic multidecadal oscillation. Climate change can also result from external forcing, when events outside of the climate system's components nonetheless produce changes within the system. Examples include changes in solar output and volcanism.

Human activities can also change climate, and are presently driving climate change through global warming.<sup>[1]</sup> There is no general agreement in scientific, media, or policy documents as to the precise term to be used to refer to anthropogenic forced change; either "global warming" or "climate change" may be used.<sup>[2]</sup> The first describes the average effect on a global scale, whilst the second describes how different geographical regions are affected differently.

The field of climatology incorporates many disparate fields of research. For ancient periods of climate change, researchers rely on evidence preserved in climate proxies, such as ice cores.<sup>[3]</sup> ancient tree rings, geologic records of changes in sea level, and glacial geology. Physical evidence of current climate change covers many independent lines of evidence, a few of which are temperature records, the disappearance of ice, and extreme weather events.

Contents [nide]
1 Terminology
2 Causes
2.1 Internal variability
2.1.1 Ocean-atmosphere variability
2.1.2 Random forcing
2.1.3 Life
2.2 External forcing mechanisms
2.2.1 Greenhouse gases
2.2.2 Orbital variations
2.2.3 Solar output
2.2.4 Volcanism
2.2.5 Plate tectonics
2.2.6 Other mechanisms
3 Study of past climates
4 Change in different elements climate system
4.1 Atmosphere
4.1.1 Surface temperature
4.1.9 Cloud aquar and provinitation

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# Atmospheric physics

Atmospheric sciences

Atmospheric dynamics (category) Atmospheric chemistry (category)

Meteorology Weather (category) · (portal) Tropical cyclone (category) Climatology Climate (category) Climate change (category) Global warming (category) · (portal) Glossaries Glossary of meteorology · Glossary of tropical cyclone terms -Glossary of tornado terms ·

Glossary of climate change

V.T.E

## Images

Categories

# Scraping Wikipedia

# When is useful?

- If you want to look at how the (textual and visual) definition of your topic changes over time
- If you want to know which elements of your topic generate more debate on Wikipedia (which were the most edited parts of the article? by the users/bots?)
- When you are interested in the context in which your topic is situated in Wikipedia (to which other articles does it link? In which category is situated?)
- When you want to compare how the same topic is discussed in different language spaces

# Seealsology

Seealsology is a simple tool that allows you to explore in a quick and dirty way the semantic area related to any Wikipedia Page. To make it simple, it extracts all the links in the "See also" section producing a graph. The tool works currently only for the following versions of Wikipedia: english, estonian, french, german, italian, portuguese, spanish, tamil.

Source code available on Github

Adding other languages requires the identification of the various "See also" sections. Feel free to contribute identifying them and proposing new languages via pull requests!

Paste your list of wikipedia articles here or try an example	Stop words (press enter or separate the works with a comma)
ex: https://en.wikipedia.org/wiki/Climate_change	Wikipedia: * Category: * File: * Help: * Talk: * Template: *
	wikisource: × Commons: × add a word and press Enter
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# Wikipedia Entry Check

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Wikipedia Entry Check, an Introduction

This tool checks if the issues exist as a Wikipedia page, i.e., an article. If it exists it checks whether the organization is mentioned on that page.

Enter articles and/or full Wikipedia URLs in the top box. All those articles will be retrieved and checked for the phrases or words specified in the bottom box.

#### Network of 442 Wikipedia articles related by the "see also" section

Starting from a curated list of 116 Wikipedia articles related to the Drawdown list of climate solutions

#### HOW TO READ



Train

Smart highway

Self-driving car

Cycling infrastructure

Retrofitting

Tidal power

Landfill tax

Hyperloop

High-speed rail

Plant-based diet

Clean-burning stove

# Wikipedia Cross-lingual Image Analysis

Input

Enter full URL to Wikipedia article (e.g. https://nl.wikipedia.org/wiki/Fietspad):

Compare images accross language versions

Wikipedia Cross-lingual Image Analysis, an Introduction

Makes the images of all language versions of a Wikipedia article comparable.

#### Insert a full Wikipedia URL (e.g.

http://en.wikipedia.org/wiki/Srebrenica\_massacre) and the tool will retrieve all language versions for the article. The tool will then scrape all the images of each language version and show them side by side in a table for comparison. The images retain the order in which they appear in the HTML

Wikipedia Cross-lingual Image Analysis, Sample Output (Toggle)





https://wiki.digitalmethods.net/Dmi/CrossLingualArtSpacesOnWikipedia

## https://wiki.digitalmethods.net/Dmi/ToolDatabase

digital methods initiative	DMI Tools Media Analysis: Media Monitoring   Mapping   Clouding   Comparative Media Analysis Data Treatment: Data Collection   Data Analysis   Information Visualization Natively Digital: The Link   The URL   The Tag   The Domain   The PageRank   The Robots.txt Device Centric: Coogle   Google Images   Google News   Google Blog Search   Yahoo   Wikipedia   Alexa   IssueCrawler   Twitter   Facebook   Amazon   iTunes   Wayback   YouTube   Insteament   Clinter
Digital Methods	Spherical: Web Sphere   News Sphere   Blogosphere   Tag Sphere   Video Sphere   Image Sphere   Code Sphere
Winter School 2020 About People Tools Summer School Winter School	4CAT: Capture and Analysis Toolkit         Image       Launch tool       Instructions & Scenarios of Use         Selectively query the 4chan corpus       Selectively query the 4chan corpus
Papers and Publications	Amazon Book Explorer
Course The Link The Website	Launch tool         Instructions & Scenarios of Use           Provides different analytics for Amazon.com's book search
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## Readings

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S. Niederer & G. Colombo (2019). Visual Methodologies for Networked Images: Designing Visualizations for Collaborative Research, Cross-platform Analysis, and Public Participation. *Diseña* (14), 40-67. <u>Doi: 10.7764/disena.14.40-67</u>

S. Niederer (2018). <u>Networked Images: Visual methodologies for the digital age</u>. Amsterdam: Amsterdam University of Applied Sciences.

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R. Rogers, *Digital Methods*, Cambridge, MA: MIT Press, 2013

# **Thanks!**



# http://bit.ly/DMItoolsmedley