

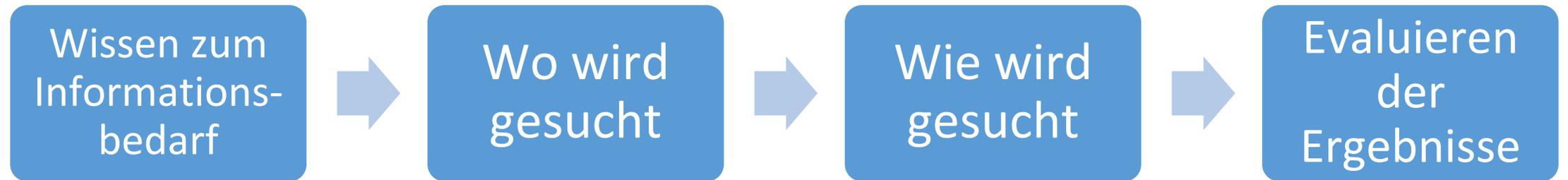
# *Der Suchprozess*

EINFOSE Summer School 2018

Andreu Sulé

University of Barcelona

# Phasen des Suchprozesses



# Wissen zum Informationsbedarf

1. Eindeutige Identifizierung des zu lösenden Informationsproblems
2. Analyse des Themas
3. Analyse des Kontexts
4. Liste von Termen für die Suche



# 1. Eindeutige Identifizierung des zu lösenden Problems

- Primäre Zielsetzung > Die **beste Information** finden, um das Problem zu lösen
  - Vermeidung irrelevanter Informationen (noise)
  - Vermeidung eines Mangels an relevanten Informationen (silence)
- Analyse des Informationsproblems
  - Spezifizieren des benötigten Umfangs an Information
  - Bestimmen der Charakteristika der benötigten Information (situational)
- Beispiel > *Der Fall des Patriot Acts*

## 2. Analyse des Themas

- Oberbegriff des Themas
  - Spezifische Aspekte des Themas
  - Perspektive
  - Geografischer Rahmen
  - Chronologischer Rahmen
- Bezug zu: Wo wird gesucht + Wie wird gesucht

# 3. Analyse der Situation

- Bezogen auf die Situation selbst (verknüpft mit Wo wird gesucht + Evaluieren der Ergebnisse)
  - Ziel/Zweck
  - Grad der Erschöpfung
  - Art der Ressourcen
  - Zeit, um die Information zu finden und zu lesen
- Bezogen auf die Person mit Informationsbedarf (verknüpft mit Evaluieren der Ergebnisse)
  - Bildungsgrad
  - Wissen zum Thema
  - Fähigkeit eine Sprache zu lesen
  - Zugang zu den Informationen

# 4. Liste von Termen für die Suche

- Terme
- Synonyme
- Pendants in anderen Sprachen

Englisch	Deutsch	Spanisch
Patriot Act		
Terrorism	Terrorismus	Terrorismo
Jurisprudence	Jurisprudenz	Jurisprudencia
Libraries	Bibliotheken	Bibliotecas
Library users	Benutzer der Bibliothek	Usuarios de bibliotecas
Information privacy	Datenschutz	Privacidad de la información
Data privacy	Datenprivatsphäre	Privacidad de los datos
Data protection	Datenschutz	Protección de los datos
United States of America	Vereinigte Staaten von Amerika	Estados Unidos de América
USA	USA	EE.UU.

# Themen- und Situationsanalyse

Wo wird gesucht

Wie wird gesucht

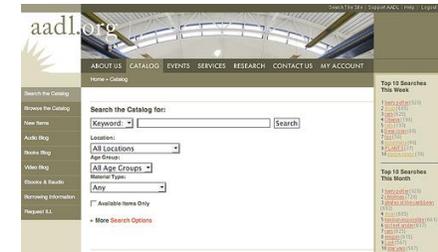
Evaluieren der Ergebnisse

# Wo wird gesucht?

- Wähle geeignete Suchinstrumente



WIKIPEDIA  
The Free Encyclopedia



# Wo wird gesucht

- Art der Quelle der Information
  - Primär > direkter Zugriff auf Information (Wikipedia, Google Knowledge, ...)
  - Sekundär > Indirekter Zugriff auf Information (Google, Bibliothekskataloge, data bases, ...)
- Analyse der Quellen der Information
  - Autorität
  - Themenschwerpunkt
  - Grad der Erschöpfung
  - Art der Quelle (Buch, Zeitschrift, Karte, Video, Lied...)
  - Sprache der Quelle
  - Zugriff auf Information
  - Chronologischer Umfang
  - Geographischer Umfang

# Google

<b>Art der Quelle der Information</b>	Sekundär
<b>Autorität</b>	Google Inc.
<b>Themenschwerpunkt</b>	Allgemein
<b>Grad der Erschöpfung</b>	Alle indexierten Webquellen
<b>Art der Quelle</b>	All Arten (Internetseiten, PDF, Nachrichten,Karten...)
<b>Sprache der Quelle</b>	Alle Sprachen
<b>Zugriff auf Information</b>	Überwiegend frei, offener Zugriff
<b>Chronologischer Umfang</b>	Alles
<b>Geographischer Umfang</b>	Alles

# PubMed (database)

<b>Art der Quelle der Information</b>	Sekundär
<b>Autorität</b>	United States National Library of Medicine; National Institutes of Health
<b>Themenschwerpunkt</b>	Medizin, Biologie
<b>Grad der Erschöpfung</b>	Selektiv
<b>Art der Quelle</b>	Überwiegend Artikel aus Zeitschriften
<b>Sprache der Quelle</b>	Überwiegend Englisch
<b>Zugriff auf Information</b>	Offener und Zugriff mit Abonnement
<b>Chronologischer Umfang</b>	1966-
<b>Geographischer Umfang</b>	Überwiegend USA

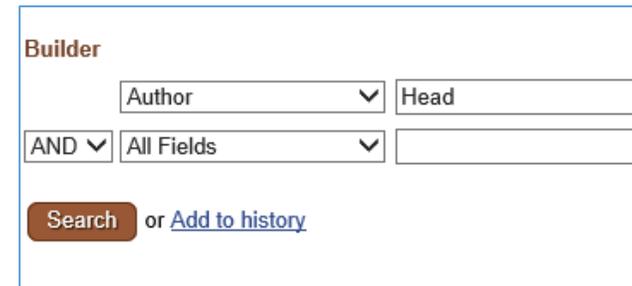
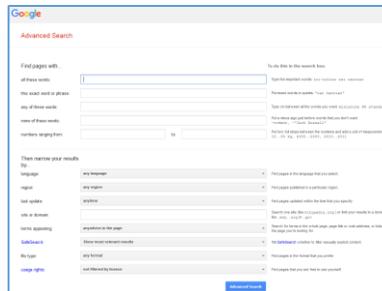
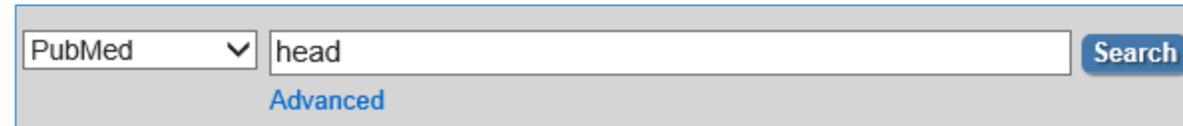
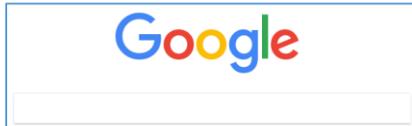
# Wie wird gesucht

- Einfache Suche
- Fortgeschrittene Suche
- Feldsuche
- Boolesche Operatoren
- Exakte Phrasen
- Trunkierung
- Explorative Suche



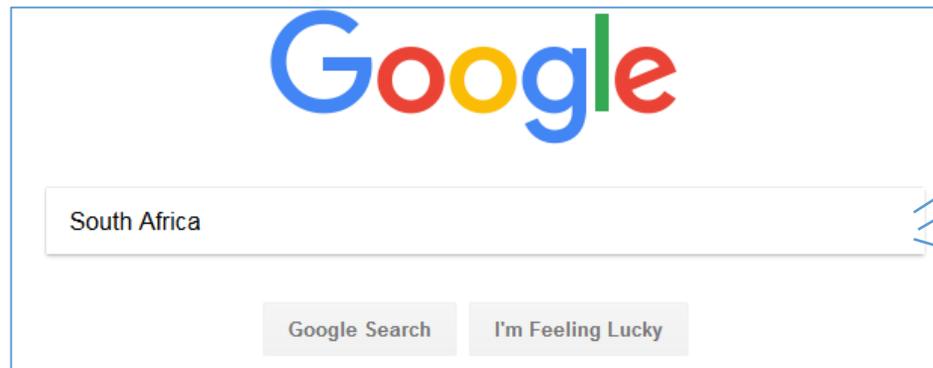
# Wie wird gesucht

- Jede Informationsquelle besitzt spezifische Möglichkeiten zur Suche



# Wie wird gesucht

- Einfache Suche



<https://www.google.com/>

A screenshot of a Lonely Planet article about South Africa. The article is titled "Welcome to South Africa" and contains several sections: "Wildlife", "Outdoor Adventure", "History", and "Dramatic Landscapes". Red boxes highlight the title and the first sentence of the "Wildlife" section. Blue arrows point from the search bar in the previous image to these highlighted areas. The "Wildlife" section starts with "South Africa is one of the continent's best safari destinations, offering the Big Five (lion, leopard, buffalo, elephant and rhino) and more in accessible parks and reserves. You can drive right into the epic wilderness at Kruger, Kgalagadi and other parks, or join khaki-clad rangers on guided drives and walks. But it's not all about big-game sightings - wildlife watching here also teaches you to enjoy the little things: a leopard tortoise ambling alongside the road, a go-away bird chirping its distinctive chant in the trees, or an encounter with seals, whales or a great white shark along the coast." The "History" section starts with "To visit South Africa without learning about its tumultuous history would be to miss a crucial part of the country's identity. Museums from Jo'burg to Robben Island, many including exhibits on the apartheid era, might not be lighthearted, but will help you to understand the fabric of South African society and appreciate how far the country has come. Continue your history lesson with a township visit to the likes of Soweto (Jo'burg) or Langa (Cape Town), chatting to locals and learning that, despite the heart-wrenching past, there is great pride here and an immense sense of promise for the future." The "Dramatic Landscapes" section starts with "South Africa's landscapes are stunning, from the burning Karoo and Kalahari semideserts to the misty heights of the Drakensberg range and the massive Blyde River Canyon. Even in urban Cape Town, you need only look up to see the beautiful fynbos (indigenous flora) climbing the slopes of Table Mountain, while nearby, two of the world's most dramatic coastal roads lead to Cape Point and Hermanus. Add the vineyards carpeting the Cape Winelands, old-growth forests along the Garden Route, wrinkly mountain ranges from the Cederberg to the Swartberg, and Indian Ocean beaches, and there's a staggering variety to enjoy."

<https://www.lonelyplanet.com/south-africa>

# Wie wird gesucht

- Einfache Suche

PubMed  Search  
Advanced

<https://www.ncbi.nlm.nih.gov/pubmed/>

J Community Support Oncol. 2015 Jan;13(1):14-21. doi: 10.12788/jcso.0101.

**Impact of a telehealth intervention on quality of life and symptom distress in patients with head and neck cancer.**

Pfeifer MP<sup>1</sup>, Keenev C<sup>2</sup>, Bumpous J<sup>3</sup>, Schapmire TJ<sup>1</sup>, Studts JL<sup>4</sup>, Myers J<sup>5</sup>, Head B<sup>6</sup>

⊕ Author information

**Abstract**  
**BACKGROUND:** Patients undergoing treatment for head and neck cancer commonly experience significant changes in quality of life (QoL) and levels of symptom distress. It is not known if a telehealth intervention would mitigate these changes.  
**OBJECTIVE:** To evaluate the impact of a telehealth intervention on QoL and symptom burden in patients undergoing initial treatment for head and neck cancers.  
**METHODS:** A randomized clinical trial comparing the impact on QoL and symptom distress of telehealth intervention and standard care was conducted with 80 patients (45 treatment, 35 control) who had been diagnosed with head or neck cancer and were receiving 1 or more treatment modalities. Treatment group participants responded daily to symptom management algorithms using a simple telehealth messaging device. QoL was evaluated by the Functional Assessment of Cancer Therapy-Head and Neck Scale (FACTHN) and symptom burden by the Memorial Symptom Assessment Scale (MSAS). Control group participants completed assessments while they received routine care.  
**RESULTS:** In the posttreatment phase, the telehealth participants had significantly better scores than the controls for physical well-being (20.6 vs 17.0, P = .02) and trial outcome index (59.9 vs. 50.2, P = .04) on the FACT-HN, and total scores on the MSAS (0.9 vs. 1.2, P = .04).  
**LIMITATIONS:** The moderate sample size of 80 patients limits the power to measure more subtle impacts of the intervention.  
**CONCLUSIONS:** Using telehealth to provide support to patients with head and neck cancer during the acute phase of treatment improved some aspects of posttreatment QoL and symptom burden.  
©2015 Frontline Medical Communications.

**KEYWORDS:** head and neck cancer; quality of life; supportive oncology; telehealth

<https://www.ncbi.nlm.nih.gov/pubmed/25839061>

# Wie wird gesucht

- Fortgeschrittene Suche
  - Spezifizierung der Suche
- Feldsuche



<https://www.lonelyplanet.com/south-africa>

Google

### Advanced Search

Find pages with...

all these words:  To do this in the search box. Type the important words: tri-colour rat terrier

this exact word or phrase:  Put exact words in quotes: "rat terrier"

any of these words:  Type OR between all the words you want: miniature OR standard

none of these words:  Put a minus sign just before words that you don't want: -rodent, -"Jack Russell"

numbers ranging from:  to  Put two full stops between the numbers and add a unit of measurement: 10..35 kg, £300..£500, 2010..2011

Then narrow your results by...

language:  Find pages in the language that you select.

region:  Find pages published in a particular region.

last update:  Find pages updated within the time that you specify.

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

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

SafeSearch:  Tell SafeSearch whether to filter sexually explicit content.

file type:  Find pages in the format that you prefer.

usage rights:  Find pages that you are free to use yourself.

[https://www.google.com/advanced\\_search?hl=en-ES&fg=1](https://www.google.com/advanced_search?hl=en-ES&fg=1)

# Wie wird gesucht

- Fortgeschrittene Suche
  - Spezifizierung der Suche
- Feldsuche

**Builder**

Author	▼	Head
AND	▼	All Fields
<input type="text"/>		

or [Add to history](#)

Cochrane Database Syst Rev. 2018 Jun 22;6:CD012597. doi: 10.1002/14651858.CD012597.pub2. [Epub ahead of print]

## Saline irrigation for allergic rhinitis.

Head K<sup>1</sup>, Snidvongs K, Glew S, Scadding G, Schilder AG, Philpott C, Hopkins C.

### Author information

#### Abstract

**BACKGROUND:** Allergic rhinitis is a common condition affecting both adults and children. Patients experience symptoms of nasal obstruction, rhinorrhoea, sneezing and nasal itching, which may affect their quality of life. Nasal irrigation with saline (salty water), also known as nasal douching, washing or lavage, is a procedure that rinses the nasal cavity with isotonic or hypertonic saline solutions. It can be performed with low positive pressure from a spray, pump or squirt bottle, with a nebuliser or with gravity-based pressure in which the person instils saline into one nostril and allows it to drain out of the other. Saline solutions are available over the counter and can be used alone or as an adjunct to other therapies.

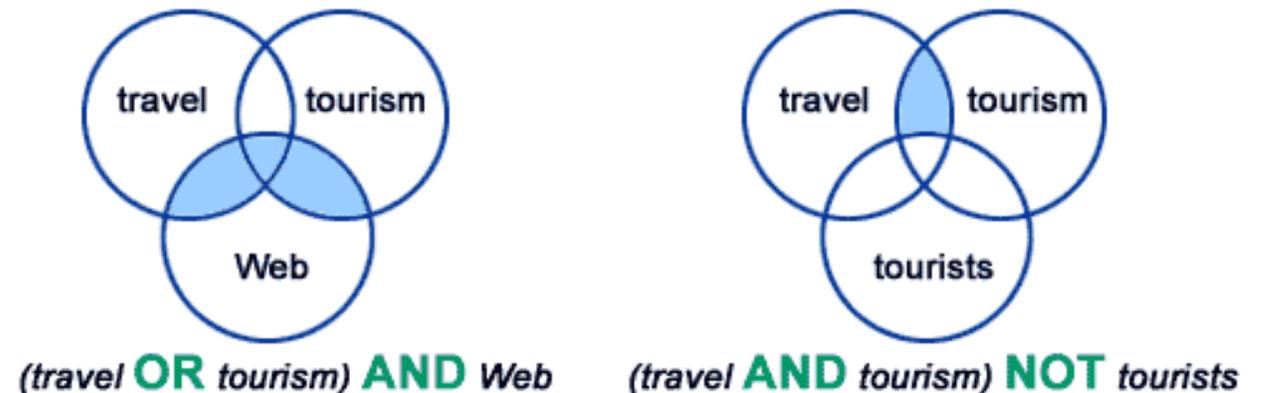
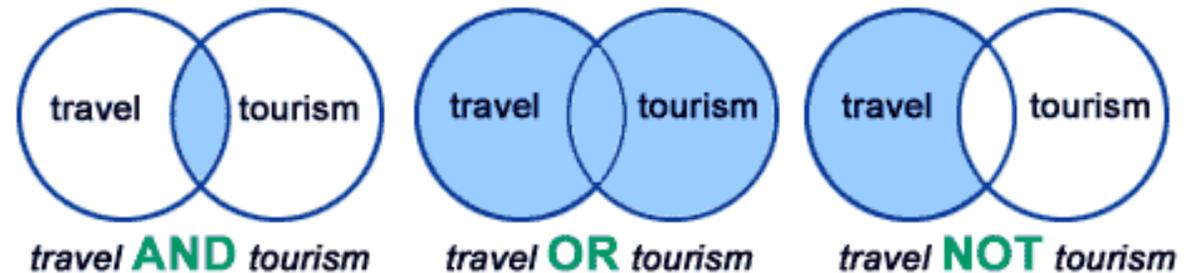
**OBJECTIVES:** To evaluate the effects of nasal saline irrigation in people with allergic rhinitis.

**SEARCH METHODS:** The Cochrane ENT Information Specialist searched the ENT Trials Register; CENTRAL; Ovid MEDLINE; Ovid Embase; CINAHL; Web of Science; ClinicalTrials.gov; ICTRP and additional sources for published and unpublished trials. The date of the search was 23 November 2017.

<https://www.ncbi.nlm.nih.gov/pubmed/29932206>

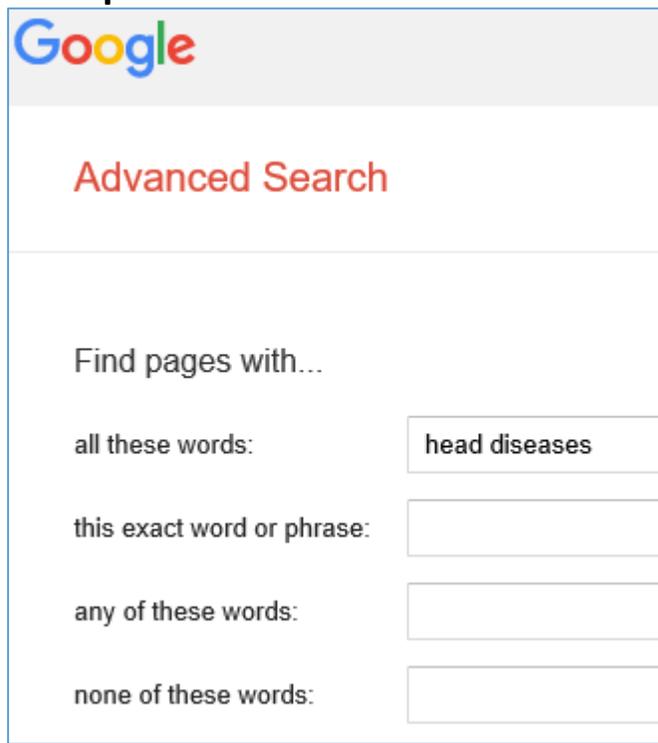
# Wie wird gesucht

- Boolesche Operatoren
  - Spezifizieren der Suche
  - Verallgemeinern der Suche
- Nutzen von Klammern um boolesche Operatoren zu priorisieren
- Feldsuche



# Wie wird gesucht

- Boolesche Operatoren



Google

Advanced Search

Find pages with...

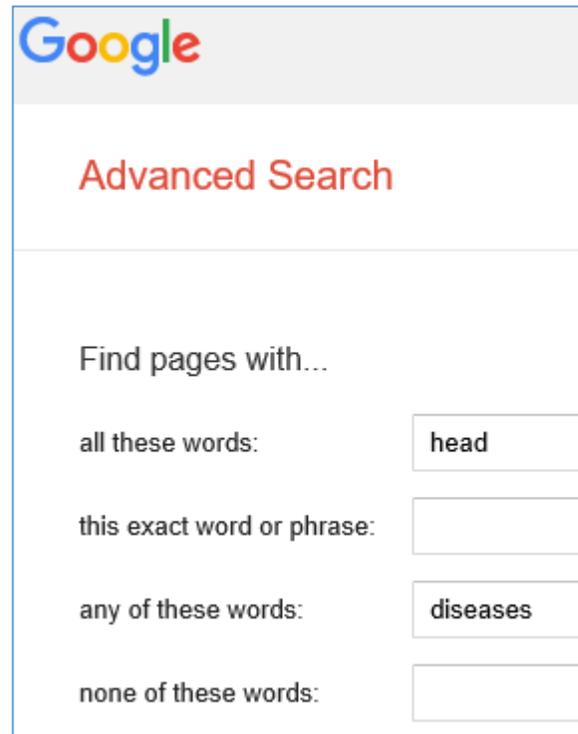
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Google

Advanced Search

Find pages with...

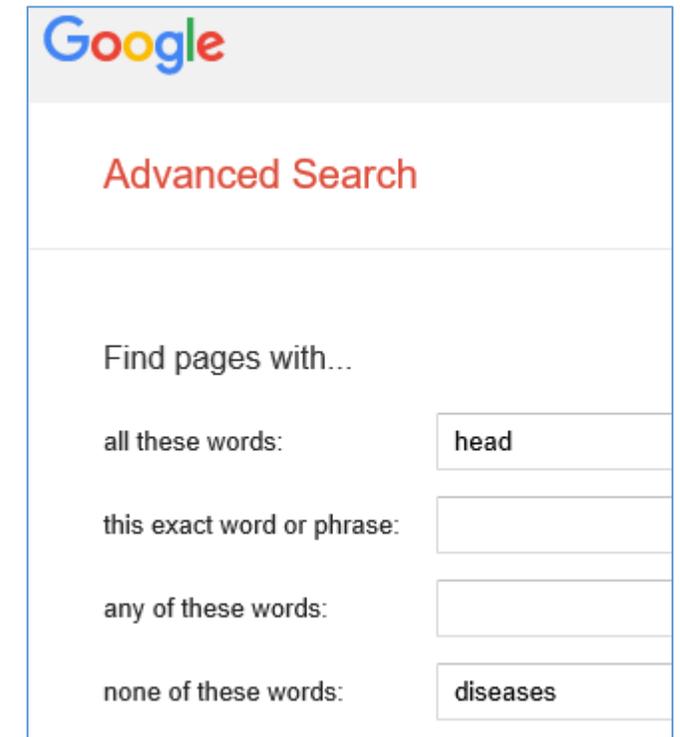
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any of these words:

none of these words:

OR



Google

Advanced Search

Find pages with...

all these words:

this exact word or phrase:

any of these words:

none of these words:

NOT

# Wie wird gesucht

- Boolesche Operatoren

**Builder**

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<b>AND</b> ▼	MeSH Terms	▼	diseases
AND ▼	All Fields	▼	

**Search** or [Add to history](#)

AND

**Builder**

	Author	▼	head
<b>OR</b> ▼	MeSH Terms	▼	diseases
AND ▼	All Fields	▼	

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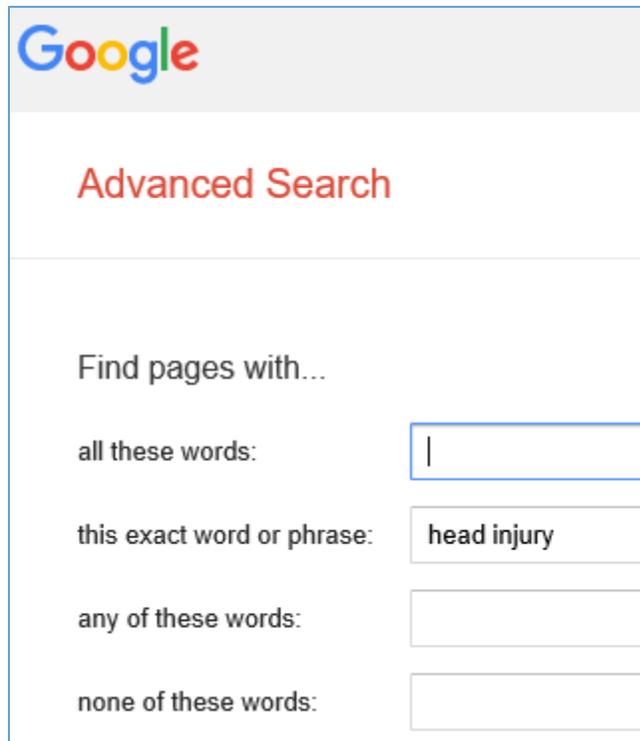
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# Wie wird gesucht

- Exakte Phrasen
  - Spezifizieren der Suche



Google

Advanced Search

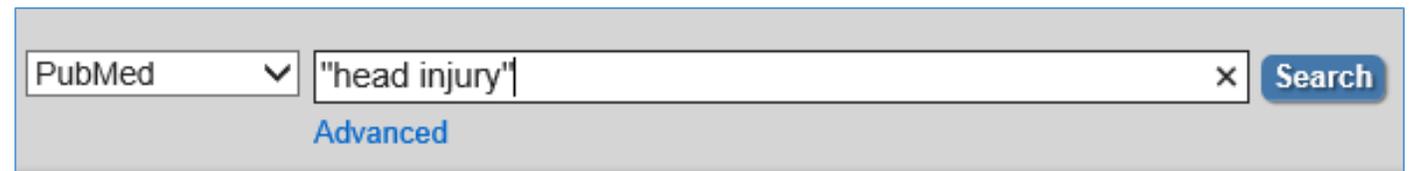
Find pages with...

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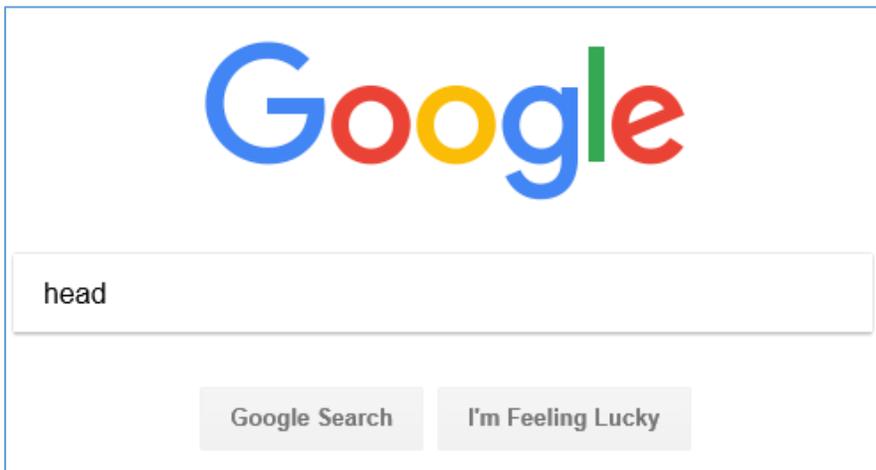


PubMed

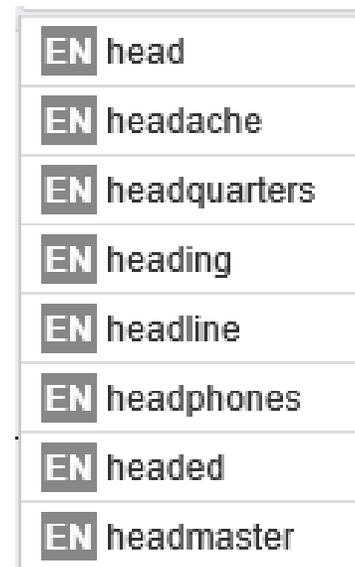
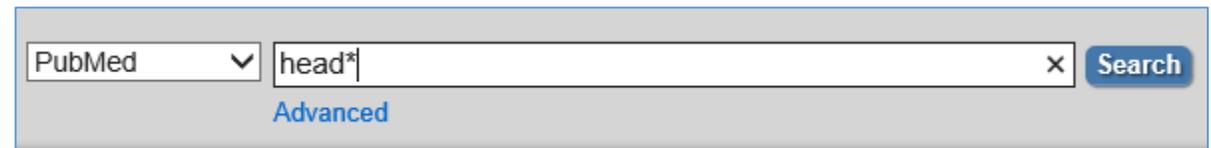
Advanced

# Wie wird gesucht

- Trunkierung
  - Erweitern der Suche

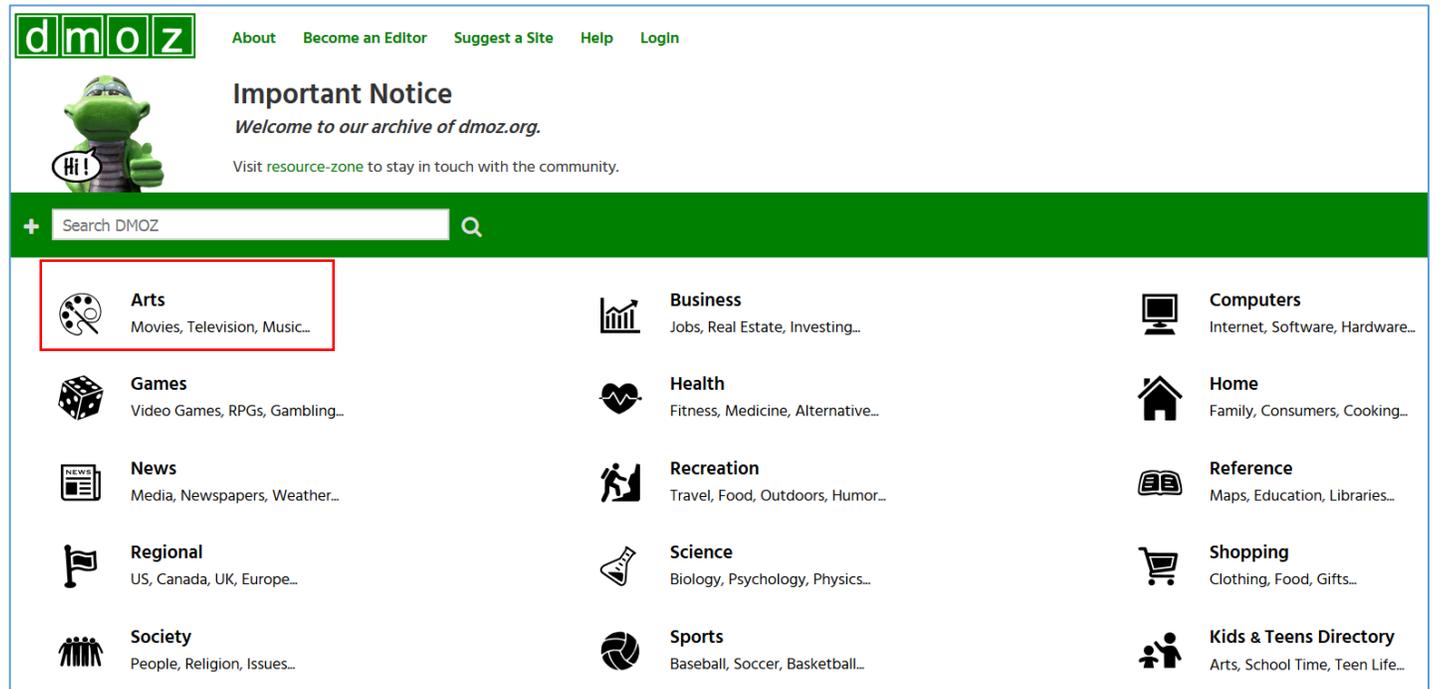


Automatische Trunkierung



# Wie wird gesucht

- Explorative Suche
  - Terme hierarchisch strukturiert

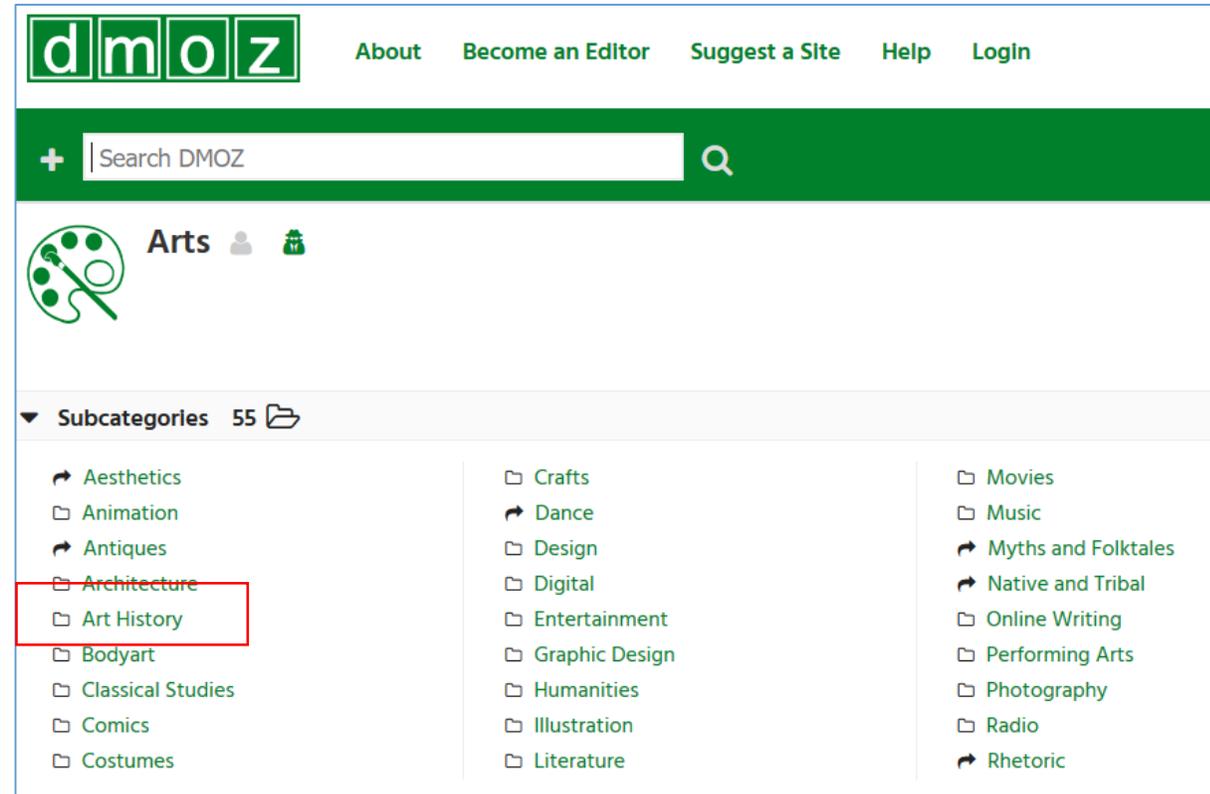


The screenshot shows the DMOZ website homepage. At the top left is the 'dmoz' logo. To its right are navigation links: 'About', 'Become an Editor', 'Suggest a Site', 'Help', and 'Login'. Below the logo is a green cartoon character with a speech bubble saying 'Hi!'. To the right of the character is an 'Important Notice' section with the text: 'Welcome to our archive of dmoz.org.' and 'Visit resource-zone to stay in touch with the community.' Below the notice is a green search bar with the text 'Search DMOZ' and a magnifying glass icon. Below the search bar is a grid of 12 category links, each with an icon and a title. The 'Arts' category link is highlighted with a red border. The categories are: Arts (Movies, Television, Music...), Games (Video Games, RPGs, Gambling...), News (Media, Newspapers, Weather...), Regional (US, Canada, UK, Europe...), Society (People, Religion, Issues...), Business (Jobs, Real Estate, Investing...), Health (Fitness, Medicine, Alternative...), Recreation (Travel, Food, Outdoors, Humor...), Science (Biology, Psychology, Physics...), Sports (Baseball, Soccer, Basketball...), Computers (Internet, Software, Hardware...), Home (Family, Consumers, Cooking...), Reference (Maps, Education, Libraries...), Shopping (Clothing, Food, Gifts...), and Kids & Teens Directory (Arts, School Time, Teen Life...).

<http://dmoz-odp.org/>

# Wie wird gesucht

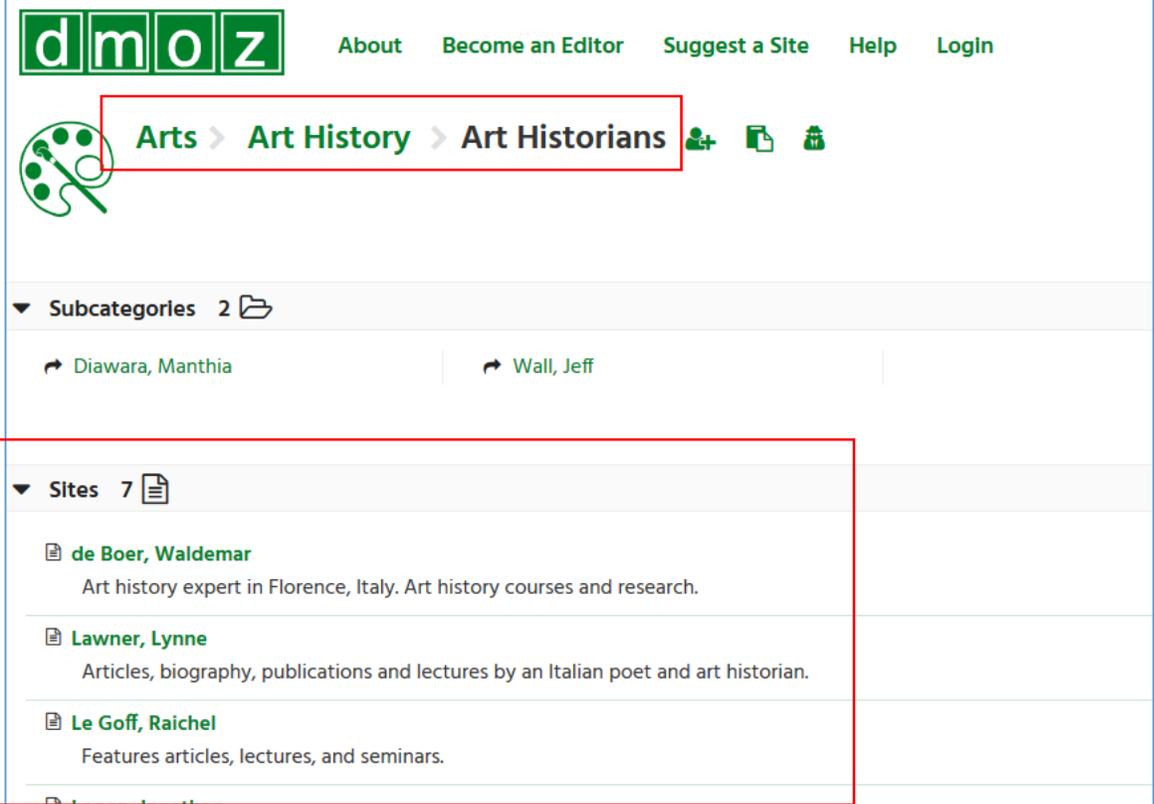
- Explorative Suche
  - Terme hierarchisch strukturiert



<http://dmoz-odp.org/>

# Wie wird gesucht

- Explorative Suche
  - Terme hierarchisch strukturiert



The screenshot shows the DMOZ website interface. At the top, the DMOZ logo is on the left, and navigation links for 'About', 'Become an Editor', 'Suggest a Site', 'Help', and 'Login' are on the right. Below the logo, a breadcrumb trail is displayed: 'Arts > Art History > Art Historians'. To the left of the trail is a paint palette icon, and to the right are icons for adding a site, a document, and a user. Below the breadcrumb, there is a section for 'Subcategories' with two items: 'Diawara, Manthia' and 'Wall, Jeff'. Below that is a section for 'Sites' with seven items. The first three items are highlighted with a red box: 'de Boer, Waldemar' (Art history expert in Florence, Italy. Art history courses and research.), 'Lawner, Lynne' (Articles, biography, publications and lectures by an Italian poet and art historian.), and 'Le Goff, Raichel' (Features articles, lectures, and seminars.).

<http://dmoz-odp.org/>

# Wie wird gesucht

- Explorative Suche
  - Filter
    - Spezifizieren der Suche

PubMed.gov  
US National Library of Medicine  
National Institutes of Health

PubMed

Create RSS Create alert Advanced

Format: Summary Sort by: Most Recent Per page: 20 Send to Filter

**Best matches for head:**

[Prospective multicenter study of ultrasound-based measurements of fetal head station and position throughout labor.](#)  
Vitner D et al. Ultrasound Obstet Gynecol. (2015)

[\[Head and neck superficial venous malformations\].](#)  
Sigaux N et al. Rev Stomatol Chir Maxillofac Chir Orale. (2015)

[The effect of hair density on the coupling between the tactor and the skin of the human head.](#)  
Myles K et al. Appl Ergon. (2015)

**Search results**

Items: 1 to 20 of 582859 << First < Prev Page 1 of 29143 Next > Last >>

[Chinese Society of Allergy Guidelines for Diagnosis and Treatment of Allergic Rhinitis.](#)  
1. Cheng L, Chen J, Fu Q, He S, Li H, Liu Z, Tan G, Tao Z, Wang D, Wen W, Xu R, Xu Y, Yang Q, Zhang C, Zhang G, Zhang R, Zhang Y, Zhou B, Zhu D, Chen L, Cui X, Deng

# Evaluieren der Ergebnisse

- Objektive Relevanz
  - Urheberschaft
  - Inhalt
  - Aktualität
  - Zuverlässigkeit der Quelle
  - Zugriff
- Subjektive Relevanz

