

# Report from the Open Search Symposium

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# Agenda

- Introduction to Openness
- Search Engine Market Share
- Open Search Foundation
- Open Search Symposium
- Open Search Symposium - Keynotes
- Open Search Symposium - Research Tracks
- Open Search Symposium - Plenary Session
- Open Search Symposium - Working Groups
- Discussion

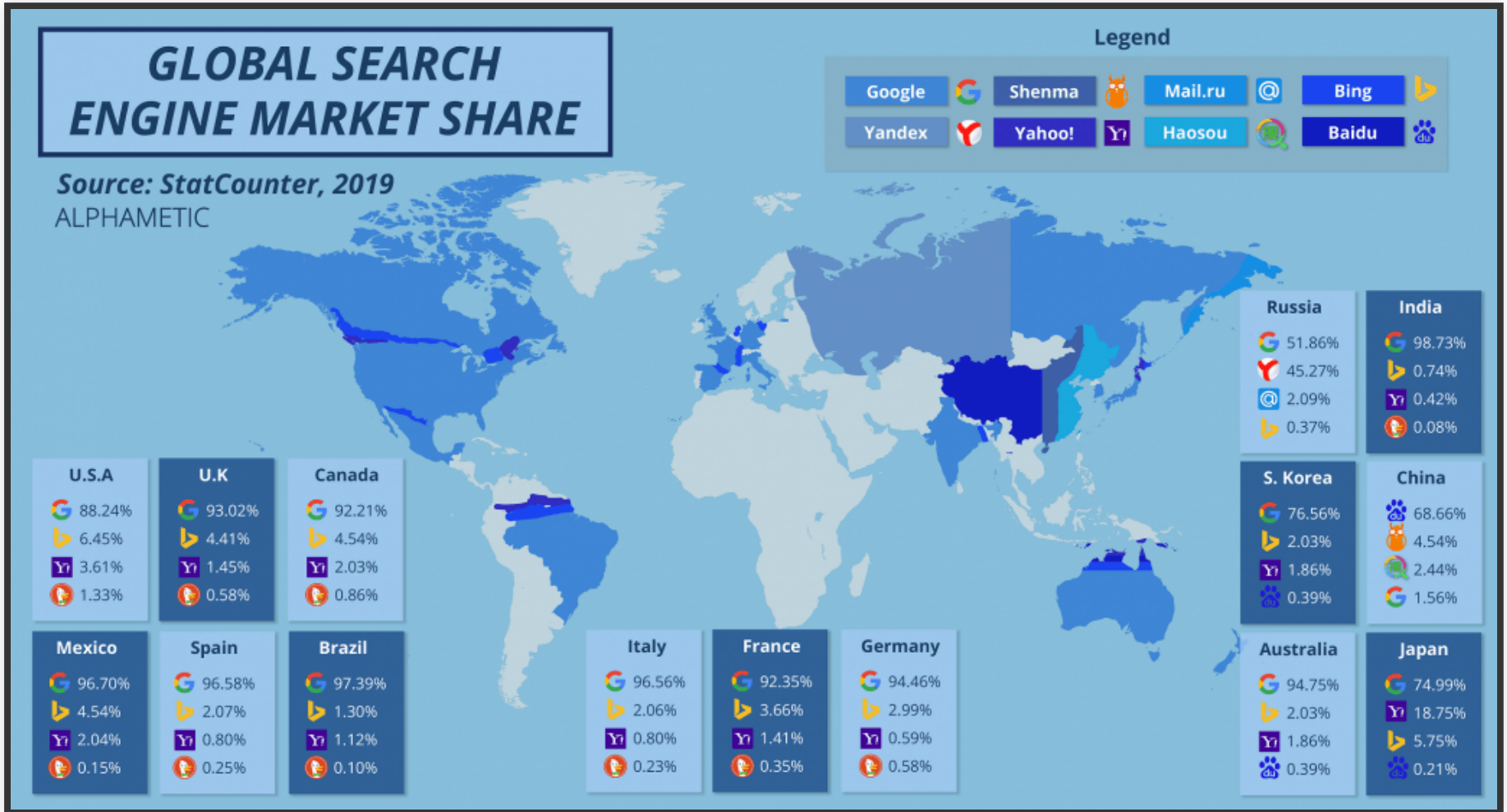
# Openness

- Openness *def.* lack of restriction or accessibility
  - **Open Data** - is data that is available to everyone to use and republish as they wish, without restrictions from copyright, patents, or other mechanisms of control.
  - **Open Information** is characterized by a high degree of accessibility to view, use, and modify information
  - **Open Science** has been broadly defined as the sharing of resources and ideas and places emphasis on making these publicly and freely available for future use.

# Openness

- Current Solutions
  - Black Box - "How do popular search engines work?"
  - Data Protection - "Which personal information do popular search engines collect and how is it used?"
  - Have you ever wondered "How does Google know what I am thinking of searching?"
- Open search and openness are essential for the digital future in Europe.

# Search Engine Market Share



# Open Search Foundation

- Noticed the dangers of Search Engines
- Make Searching the internet Open and Transparent
- The goal of the open search foundation is to provide a wide range of independent and free options for navigating the web
- The Open Search Foundation works hand in hand with research institutes and computer centers across Europe
- [Say Hello](#)



# Open Search Symposium

- Third International Open Search Symposium
- Three Day Event | 11th to 13th of October
- [Timetable](#)
- Statistics:
  - 135 registered participants (40% more than last year)
  - 14 Countries
  - 68 Organisations
  - 40 Speakers
  - 16 Sessions

# Open Search Symposium - Keynotes



# Why Science needs Open Search

*Science is open - **Data** and **Information** is shared in an iterative process*

*{Mis/Dis}information age*

*Trust in science is being undermined*

# Economic Challenges of Open Search

*Economic impact and value creation - How do we create value, which data to crawl.*

*Ease of use, accessibility, transparency, ethical impact*

***It is not only money***

# Encoding social change? Analysis of open search technology between German hacker ethics and Asian start-up culture

*What is driving search engines?*

- *EU - Innovation and politics are two distinct spheres*
- *US - Fail and fail and you learn*
- *Asia - I'm less suspicious of companies than of governments*

# European Commission perspective to Open Search

*Internet has grown in a way that it needs correction, we all depend on a few gatekeeper platforms*

*What is EU working towards?*

- *Humancentric technology (technology for people, value based technology, etc.)*
- *Resilience and dependence*
- *Digital Decade Policy Program - Where does EU want to be in 2030*

# Open Search Symposium - Research Track

# Federated Web-Crawling

*URL Frontier: an open source API and implementation for crawl frontiers*

*Processing Crawled Data*

# Federated Web-Crawling

*Avoiding Useless Content While Crawling the Web*

*From web graphs to prioritizing web crawls*

# Web Content Analysis

*The Impact of Main Content Extraction on  
Near-Duplicate Detection*

*FastWARC: Optimizing Large-Scale Web  
Archive Analytics*

*Creating a Dataset for Keyphrase Extraction in  
Physics Publications and Patents*

*Understanding Websites*



# Search and Discovery

*A Proposal for Client Based User Profiles for  
Open Search*

*Indico & Citadel Search: A collaboration case  
study*

# Search and Discovery

*Neuropil – a distributed, privacy-preserving,  
search index structure*

*Searching on Heterogenous and  
Decentralized Data: A Short Review*

# Open Search for Science and Education

*Open Search @ DLR - towards transparent  
access to web-based information in science*

*Modules for Open Search in Mathematics  
Teaching*

*Towards Open Domain Literature Based  
Discovery*

# Applications

*Improved Discovery and Access to Research  
Data in Energy Systems Analysis*

*Requirements for an Open Search  
Infrastructure from the Perspective of a Verti-  
cal Provider*

# Applications

*Towards Open Search Applications for the  
Broader Community*

*Conceptual considerations for comprehensive  
and cooperative crawling and indexing the  
Web*

# Cross cutting aspects

*Privacy in Open Search: A Review of Challenges and Solutions*

*The effect of search engine optimization on search results: The SEO Effect project*

*The Development of a Social-Media-Strategy for the Open Search Foundataion Applying the Social-Media-Cycle*

# Open Search Symposium - Plenary Session

# Alternative Search Approaches

*Xayn: Reinventing Internet Search with  
Privacy and Convenience*

*Goggles: Democracy dies in Darkness, and so  
does The Web*

*Neeva*



# Ethics in Search

*Search Ethics and Data Democracy – How we all have a responsibility creating a data democracy where neither state nor big tech control our lives via data*

*Data Ethics Decision Aid (DEDA): How to implement Ethical Decisions step-by step in Data Projects*

# Ethics in Search

*Why the Internet search needs ethical guardrails*

# Open Search Symposium - Working Groups

Work groups are specialist groups for different areas.

- APPLICATIONS
- WORKING GROUP AWARENESS
- WORKING GROUP ECONOMY
- WORKING GROUP ETHICS
- WORKING GROUP LEGAL
- WORKING GROUP TECH

# WORKING GROUP APPLICATIONS

*The Applications Working Group aims to identify search-based applications for the broader community*

[Read More ...](#)

# WORKING GROUP AWARENESS

*Why do we need more diversity and transparency in internet search? How do we protect our data?*

[Read More ...](#)

# WORKING GROUP ECONOMY

*Identifying economic values*

[Read More ...](#)

# WORKING GROUP ETHICS

*Ethical guard rails for the open Internet search*

[Read More ...](#)

# WORKING GROUP LEGAL

*Legal Design requirements*

[Read More ...](#)



# WORKING GROUP TECH

*Technical Aspects of Open Search*

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# Open Search Symposium - Working Groups

[Learn More About the Working Groups - Visit the Overview Page](#)

# Future Plans

- Connect with other movements in Europe
- Hackathons, Educational Workshops, and Presentations like this
- Workgroup Expansion

# Discussion

Important Topics?  
Want to colaborate?  
Ideas?

Thank You for Your  
Attention

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