

Awareness Watch™ Newsletter

By Marcus P. Zillman, M.S., A.M.H.A.

<http://www.AwarenessWatch.com/>

V24N1

January 2026

Welcome to the V24N1 January 2026 issue of the **Awareness Watch™ Newsletter**. This newsletter is available as a complimentary subscription and will be issued monthly. Each newsletter will feature the following:

Awareness Watch™ Featured Report

Awareness Watch™ Spotters

Awareness Watch™ Book/Paper/Article Review

Subject Tracer™ Information Blogs

I am always open to feedback from readers so please feel free to email with all suggestions, reviews and new resources that you feel would be appropriate for inclusion in an upcoming issue of Awareness Watch™. This is an ongoing work of creativity and you will be observing constant changes, constant updates knowing that “change” is the only thing that will remain constant especially in today’s post COVID-19 New Economy, New Normal 2026 and Generative Artificial Intelligence 2026 world!!

Awareness Watch™ Featured Report

This month’s report features **2026 Directory of Directories**. It is a landing spot and comprehensive listing of competent discovery and finding sources for 2026 directory resources including pathfinders, subject tracers, mini-directories resources and tools including the new 2026 generative AI and new AI directories, subject guides and index resources and sites for 2026. The below information is taken partially from my 2025 Directory of Directories white paper and is constantly updated with my Subject Tracer™ bots at the following whitepaper site <http://2025DirectoryOfDirectories.com/>. These resources and sources will help you to discover the many new and existing pathways available through the Internet to find the latest world wide web and Internet competent pathfinders and directory reference sources, tools and sites to discover the world of the research and discovery search tools, and resources. As this site is constantly updated it would be to your benefit to bookmark and return to the above URL frequently. The below resources and sources will be your pathfinders to all the new and existing directory research and discovery resources and sources!



2026 Directory of Directories

SINGLE SUBJECT DIRECTORIES AND PORTALS INCLUDING:

Academic/Education
Economics/Business
Government and Statistics
Humanities
Information and Information Science
Law
Medicine
News
Science and Engineering
Social Sciences

MULTIPLE SUBJECT TREES AND MULTIPLE SUBJECT DIRECTORIES AND PORTALS

SINGLE SUBJECT DIRECTORIES AND PORTALS:

ACADEMIC/EDUCATION:

Academic and Scholar Search Engines and Sources 2025

<http://www.ScholarSearchEngines.com/>

Academic Info

<http://www.academicinfo.net/>

AI Topics

<http://aitopics.org/>

All Academic

<http://www.allacademic.com/>

Atlas Network - Global Directory of Partners and Think Tanks in 97 Countries

<https://www.atlasnetwork.org/partners/global-directory/>

Directory of Libraries Throughout the World

<http://librarytechnology.org/libraries/>

Directory of Online Learning Companies from Around the World - Searchable

<https://teachonline.ca/tools-trends/searchable-directory-vendors-online-learning-products-and-services>

Education and Academic Resources

<http://www.EducationResources.info/>

Education Bug - Complete Listing of Educational Resources

<http://www.EducationBug.org/>

Education World

<http://www.educationworld.com/>

eNotes - Comprehensive Online Educational Resources by Experts

<http://www.enotes.com/>

LibGuides Community

<http://community.libguides.com/>

MERLOT - Multimedia Educational Resource for Learning and Online Teaching

<http://www.merlot.org/>

Minerazzi - Your Search-and-Mine

<http://www.minerazzi.com/>

MOOC List

<https://www.mooc-list.com/>

Open Access Directory (OAD)

http://oad.simmons.edu/oadwiki/Main_Page

Open Educational Resources (OER) Sources 2025

<http://www.OERSources.com/>

Wikipedia: List of Online Reference Desks

https://en.wikipedia.org/wiki/Wikipedia:List_of_online_reference_desks/General

Virtual Learning Resources Center

<http://www.virtuallrc.com/>

ECONOMICS AND BUSINESS:

192.com - Search for People, Businesses & Places in the UK

<https://www.192.com/>

2025 Reference Resources

<http://www.2025ReferenceResources.com/>

akama - Open Business Directory

<http://www.akama.com/>

Artificial Intelligence (AI) Discovery and Detection Tools 2025

<http://www.AIDiscoveryTools.com/>

BizDb - UK Business Directory

<http://www.bizdb.co.uk/>

BPubs.com - The Business Publications Search Engine

<http://www.bpubs.com/>

BRASS Business Guides

<https://brass.libguides.com/>

Business 2.0

<http://money.cnn.com/magazines/business2/>

Business.com

<http://www.business.com/>

Business Information on the Internet

<http://www.rba.co.uk/sources/>

Business Intelligence Resources 2025

<http://www.BIResources.info/>

CEO Express

<http://ceoexpress.com/>

ChatterBots Resources and Sites 2025

<http://www.ChatterBots.info/>

Crowdfunding Resources 2025

<http://www.CrowdFundingResources.info/>

CrunchBase - Free technology Company Database

<http://www.crunchbase.com/>

Design Directory - An International Design Links Database

<http://www.dexigner.com/directory/>

Destination Meta-Guide.com 3.0

<http://meta-guide.com/>

Directory of Corporate Archives in the United States and Canada

<https://www2.archivists.org/groups/business-archives-section/directory-of-corporate-archives-in-the-united-states-and-canada-introduction>

Entrepreneurial Resources 2025

<http://EntrepreneurialResources.info/>

Financial Sources

<http://www.FinancialSources.info/>

Foundation Directory Online (FDO)

<https://fconline.foundationcenter.org/>

Free Software Directory

http://directory.fsf.org/wiki/Main_Page

Generative AI Resources 2025

<http://www.GenerativeAIResources.com/>

Green Book - The Guide for Buyers of Marketing Research

<http://www.greenbook.org/>

Green Files 2025

<http://www.GreenFiles.info/>

Hoover's Online - The Business Network

<http://www.hoovers.com/>

HR Internet Guide

<http://www.hr-guide.com/>

Inomics® - The Internet Site for Economists

<http://www.inomics.com/>



Insider Pages - Recommendations

<http://www.insiderpages.com/>

International Business Resources on the World Wide Web

<http://globaledge.msu.edu/reference-desk/>

IQS Directory - Industrial and Manufacturer Directory

<http://www.iqsdirectory.com/>

KnowThis.com - Marketing Virtual Library

<http://www.KnowThis.com/>

Marketing Resource Directory from the American Marketing Association

<http://marketingresourcedirectory.ama.org/>

MaRS Startup Toolkit

<https://learn.marsdd.com/>

New Economy Resources 2025

<http://www.NewEconomyResources.com/>

Nichelisting - Human-Reviewed, Niche Website Directories

<https://www.nichelisting.org/>

Open DataSets 2025

<http://www.OpenDataSets.info/>

Open Educational Resources (OER) Sources 2025

<http://www.OERSources.com/>

Open Source Artificial Intelligence Agents (OSAIA) MiniGuide 2025

<http://www.OSAIAminiguide.com/>

Open Source Intelligence (OSINT) Resources MiniGuide 2025

<http://www.OSINTminiguide.com/>

Prompt Catalog 2025 for Artificial Intelligence (AI)

<http://www.PromptCatalog.ai/>

QualityTrade.com - Compare Ratings and Trade With the Best Manufacturers and Suppliers in the World

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

References.net - Web's Largest Resources for Reference Resources

<http://www.references.net/>

Search Systems Free Public Records Directory

<http://publicrecords.searchsystems.net/>

SoftLookup.com - Free Business to Business Software Download Directory

<http://www.softlookup.com/>

Source Guides Renewable Energy Directory

<http://www.sourceguides.com/>

Super Searchers Do Business: Business URLs

<http://www.infoday.com/supersearchers/ssdb.htm>

The Freelance Stack – Best Freelance Tools

<https://www.hellobonsai.com/best-freelance-tools>

Wikitravel

http://wikitravel.org/en/Main_Page

GOVERNMENT AND STATISTICS:

Cabinet Members and World Leaders of Foreign Government

<https://www.cia.gov/resources/world-leaders/>

Congressional Directory

<https://www.congress.gov/members>

Congress.gov/

<http://www.Congress.gov/>

Data: Government, State, City, Local and Public

<https://www.kdnuggets.com/datasets/government-local-public.html>

Directory of United Nations System Organizations

<http://www.unsceb.org/directory>

Discover U.S. Government Information

<https://www.govinfo.gov>

European Governments On-Line

<http://www.europarl.europa.eu/portal/en>

Federal Government and Statistical Agencies

<https://nces.ed.gov/partners/fedstat.asp>

FirstGov

<http://www.usa.gov/>

Florida Electronic Federal Depository Library

<http://www.uflib.ufl.edu/fehdl/>

GovEngine.com – US Government Directory

<http://www.GovEngine.com/>

Governments on the WWW

<http://www.gksoft.com/govt/en/>

GovInfo – Discover U.S. Government Information

<http://www.GovInfo.gov/>

Guide to the Global Economy

<http://www.theglobaleconomy.com/>

Leadership Directories - Leadership Connect

<http://www.leadershipdirectories.com/>

Library of Congress

<http://loc.gov/>

National Association of Counties (NACo)

<http://www.naco.org/>

National Association of Secretaries of State (NASS)

<http://www.nass.org/>

Net Data Directory

<https://netdatadirectory.org/>

New Economy, Resources, Tools and Alerts 2025

<http://NewEconomyResources.com/>

State and Local Government on the Net Directory

<http://www.statelocalgov.net/index.cfm>

Statistics Resources and Big Data 2025

<http://www.StatisticsResources.info/>

The United States Government Manual

<http://www.gpo.gov/fdsys/browse/collection.action?collectionCode=GOVMAN>

University of Michigan Clark Library Government Information Collection

<http://www.lib.umich.edu/clark-library/collections/government-information>

United States House of Representatives

<http://www.house.gov/>

United States Senate

<http://www.senate.gov/>

HUMANITIES:

EDSITEment - The Best of the Humanities On the Web

<http://edsitement.neh.gov/>

VoS - Voice of the Shuttle

<http://vos.ucsb.edu/>

INFORMATION AND INFORMATION SCIENCE:

2025 Publications by Marcus P. Zillman, M.S., A.M.H.A.

<https://www.zillman.us/bio/>

Awareness Watch Newsletter and Archives

<http://www.AwarenessWatch.com/>

Daily Rotation

<http://www.dailyrotation.com/>

Directory of Libraries Throughout the World

<http://librarytechnology.org/libraries/>

Directory of Open Access Books (DOAB)

<http://www.doabooks.org/>

DLIST - Digital Library of Information Science and Technology

<http://arizona.openrepository.com/arizona/handle/10150/105067>

E-Books Directory

<http://www.e-booksdirectory.com/>

Free Private Label Rights Article Directory - 100,000s of Total Free PLR Articles

<http://plrplr.com/>

Free Software Foundation (FSF)

<http://www.fsf.org/>

InfoLibrarian

<http://www.infolibrarian.com/>

Information Retrieval (IR) and Information Extraction (IE)

<http://www.webir.org/>

Information Science Today

<http://www.infosciencetoday.org/>

IT Facts

<http://itfacts.biz/>

ITTutorials Information Technology

<https://ittutorials.net/>

LibGuides Community

<http://community.libguides.com/>

LibWeb – Library Servers via WWW

<http://www.lib-web.org/>

List of Wikipedias

https://meta.wikimedia.org/wiki/List_of_Wikipedias

OCLC Research Publications Repository

<http://www.oclc.org/research/publications.html>

OpenDOAR - Directory of Open Access Repositories

<http://www.opendoar.org/>

Search Engine Colossus: International Directory of Search Engines

<http://www.searchenginecolossus.com/>

Social Media Directory - Department of Homeland Security

<http://www.dhs.gov/social-media-directory>

Springo - Web Categorization

<http://www.springo.com/>

Web Developers's Handbook 2.0

<http://www.alvit.de/handbook/>

Wikipedia: List of Online Reference Desks

https://en.wikipedia.org/wiki/Wikipedia:List_of_online_reference_desks/General

Zillman Blog - Information Research (30,000+ Postings)

<http://www.zillman.org/>

Zillman Columns

<http://www.ZillmanColumns.com/>

LAW:

beSpacific

<http://www.bespacific.com/>

FindLaw

<http://www.FindLaw.com/>

Internet Legal Research Group

<http://www.ilrg.com/>

Law of the Super Searchers - Law URLs

<http://www.infotoday.com/supersearchers/loss.htm>

Legal, Factual and Other Internet Sites for Attorneys and Legal Professionals

<http://www.bespacific.com/legal-factual-and-other-internet-sites-for-attorneys-and-legal-professionals/>

Legal Information Institute

<http://www.law.cornell.edu/>

LLRX - Legal and Technology Articles and Resources for Librarians, Lawyers and Law Firms

<http://www.llrx.com/>

Pin Hawk Librarian

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

Public Records Online Directory

<http://publicrecords.netronline.com/>

The Guide to Law Online

<http://www.loc.gov/law/help/guide.php>

MEDICINE:

Gray, Henry. 1918. Anatomy of the Human Body

<http://www.bartleby.com/107/>

Healio

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

Healthcare Online Resources 2025

<http://www.HealthcareResources.info/>

Martindale's Reference Center

<http://www.martindalecenter.com/>

MedlinePlus

<http://www.nlm.nih.gov/medlineplus/>

National Cancer Institute Research Resources

<http://resresources.nci.nih.gov/>

NLM Catalog

<http://www.ncbi.nlm.nih.gov/nlmcatalog>

Psych Web

<http://www.psywww.com/>

Super Searchers on Health and Medicine: Health URLs

<http://www.infoday.com/supersearchers/ssmed.htm>

The Merck Manual of Medical Information - Home Edition

<http://www.merckmanuals.com/home/index.html>

NEWS:

Google News

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

Lists of Global Newspapers – WikiPedia

https://en.wikipedia.org/wiki/Lists_of_newspapers#North_America

Online Newspapers

<https://www.onlinenewspapers.com/index.shtml>

Super Searchers in the News - News URLs

<http://www.infoday.com/supersearchers/ssnews.htm>

World Newspapers and Magazines

<https://www.world-newspapers.com/>

SCIENCE AND ENGINEERING:

Agriculture Network Information Center

<http://www.agnic.org/>

Agriculture Resources 2025

<http://www.AgricultureResources.info/>

Artificial Intelligence Resources 2025

<http://www.AIResources.info/>

Astronomy Resources 2025

<http://www.AstronomyResources.info/>

Avibase – The World Bird Database

<http://avibase.bsc-eoc.org/avibase.jsp>

Best Environmental Resources Directories

<http://www.ulb.ac.be/ceese/meta/cds.html>

Biological Informatics 2025

<http://www.BiologicalInformatics.info/>

Engineering Information

<http://www.ei.org/>

Eric Weisstein's World of Mathematics

<http://mathworld.wolfram.com/>

EurekAlerts - Science News

<http://www.eurekalert.org/>

National Science Digital Library (NSDL) Collections

<https://nsdl.oercommons.org/>

Open Science Directory

<http://www.opensciencedirectory.net/>

PrimateLit Database - Primatology

<http://primatelit.library.wisc.edu/>

RocketAware - Programmer's Webliography and Index

<http://www.rocketaware.com/>

Science.gov: FirstGov for Science - Government Science Portal

<http://www.science.gov/>

Science Tracer Bullets Online

<http://www.loc.gov/rr/scitech/tracer-bullets/tbs.html>

SOCIAL SCIENCES:

Academic Info - Social Sciences Gateway

<http://www.academicinfo.net/subsoc.html>

American Psychological Association

<http://www.apa.org/>

Internet Crossroads in Social Science Data

<http://www.disc.wisc.edu/newcrossroads/index.asp>

JISC Resource Guide - Social Science

<http://www.jisc.ac.uk/>

KobreGuide - Guide to the Web's Best Multimedia and Video Journalism

<http://www.kobreguide.com/>

Social Media Directory - Department of Homeland Security

<http://www.dhs.gov/social-media-directory>

Travel Notes -- The Online Guide to Travel

<http://www.travelnotes.org/>

MULTIPLE SUBJECT TREES AND MULTIPLE SUBJECT DIRECTORIES AND PORTALS:

01webdirectory.com - Best of Web Directory

<http://01webdirectory.com/>

4Anything Network

<http://www.4anything.com/>

A1 Web Directory

<http://www.a1webdirectory.org/>

A-Z Subject Resources on British Library Net

<http://www.bl.uk/>

Academic Info

<http://www.academicinfo.net/>

Argus Clearinghouse – Civil Rights Litigation Clearinghouse

<http://www.clearinghouse.net/>

Artificial Intelligence (AI) Resources 2025

<http://www.AIResources.info/>

Awesome Project

<https://awesome.re/>

Baker Library Harvard Business School Site Map

<http://www.library.hbs.edu/sitemap.html>

Beaucoup

<http://www.beaucoup.com/>

Best of the Web Directory

<http://botw.org/>

Britannica

<http://www.britannica.com/>

British Academy PORTAL

<http://www.britac.ac.uk/>

Business Reference & Services Section (BRASS) Business Guides

<http://brass.libguides.com/>

Cannylink Link Directory

<http://www.cannylink.com/>

CMC Info - Computer Mediated Communication Information Sources

<http://www.december.com/cmc/info/>

ContestGirl - Directory of Quality on-line Sweepstakes and Contests

<http://www.contestgirl.com/>

Deep Web Research and Discovery Index 2025

<http://www.DeepWebResearch.info/>

Directory of Directories 2025

<http://www.2025DirectoryOfDirectories.com/>

Garriga's Australian Beyond ...The BlackStump

<http://www.blackstump.com.au/>

Generative AI Resources 2025

<http://www.GenerativeAIResources.com/>

GOLDEN - The Intelligent, Open Knowledge Base

<https://golden.com/>

Ibiblio Collection Index – The Public's Library and Digital Archive

<http://www.ibiblio.org/catalog/>

IFLA Electronic Collections

<http://archive.ifla.org/II/>

Internet Library for Librarians

<http://www.itcompany.com/inforetriever/>

JISC Resource Guides

<http://www.jisc.ac.uk/>

JoeAnt.com - Search Engine - Directory

<http://www.joeant.com/>

Libguides Community

<https://community.libguides.com/>

LibGuides – Create Research Guides, Share Knowledge

<http://springshare.com/libguides/>

LinksGiving

<http://www.linksgiving.com/>

List of Wikipedias

https://meta.wikimedia.org/wiki/List_of_Wikipedias

Martindale's Reference Center

<http://www.martindalecenter.com/>

MegaSources

<http://www.pathcom.com/~dtudor/megasources.htm>

Moving Image Gateway

<http://www.bufvc.ac.uk/gateway/>

Nichelisting – Human-Reviewed, Niche Website Directories

<https://www.nichelistings.org/>

OpenIndex - Creating a Public Internet Index

<http://www.openindex.org/>

Open MetaVerse Resources 2025

<http://www.OpenMetaVerse.us/>

Re:QUEST dot Net™ - Online Library of Internet and Reference Resources

<http://www.re-quest.net/>

Research Guides -- George Washington University

<http://libguides.gwu.edu/>

Subject Directories: TABLE of Features

<http://www.lib.berkeley.edu/TeachingLib/Guides/Internet/SubjDirectories.html>

Subject Tracers™ 2025 Information Blogs from the Virtual Private Library

<http://www.SubjectTracers.com/>

Subject Tree - Glasgow University Library

<http://eleanor.lib.gla.ac.uk/search~S0/y>

TenLinks.com - Ultimate Directories for Technology Professionals

<http://www.tenlinks.com/>

TheFreeLibrary - News, Magazines, Newspapers, Journals, Reference Articles and Classic Books

<http://www.thefreelibrary.com/>

TheFreeSite.com

<http://www.thefreesite.com/>

The SuperSearchers Web Page

<http://www.infotoday.com/supersearchers/>

The WWW Virtual Library

<http://vlib.org/>

UCB & Internet Resources

<http://www.lib.berkeley.edu/find/index.html>

Virtual Private Library Subject Tracers

<http://www.VirtualPrivateLibrary.org/>



WebBrain

<http://www.thebrain.com/>

Wikipedia

<http://www.wikipedia.com/>

WWW Virtual Library

<http://www.vlib.org/>

Yahoo!

<http://www.yahoo.com/>

Zeef – Curated Directory for Development and Tech Resources

<https://zeef.com/>

AwarenessWatch™ Spotters

Updated> Healthcare Online Resources 2025

<http://www.HealthcareResources.info/>

Healthcare Online Resources 2025 is a comprehensive listing of healthcare resources currently available on the Internet. These include healthcare indexes, subject guides, and search engines that supply the latest technology and information about healthcare and how it relates to you. This has been created by [Marcus P. Zillman](#), M.S., A.M.H.A., Author, Keynote Speaker, and Corporate Consultant. [Updated on December 1, 2025; 36 pages; 749KB PDF] Also available directly from: <http://HealthPathFinders.com/>

Academic and Scholar Search Engines and Sources 2025 – December 2025 Edition

<http://www.ScholarSearchEngines.com/>

[Click to access Scholar.pdf](#)

Internet Annotated Link Dataset Compilation titled “Academic and Scholar Search Engines and Sources 2025” is now an 92-page research paper listing selected resources both new and existing that will help anyone who is attempting to find academic and scholarly information and knowledge available on the Internet. Each source is described along with the URL address than can be accessed. It is freely available as a PDF file (1,009KB) at the above link from the [Virtual Private Library™](#) and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#) [Completely recreated with all links validated and new URLs added: **December 2, 2025**. Other 2025 white papers are available by clicking [here](#).



Updated> Information Quality Resources 2025

<http://www.zillman.us/subject-tracers/information-quality-resources/>
<http://www.InformationQualityResources.com/>

The above is the associated white paper link dataset compilation of the **Information Quality Resources 2025** Subject Tracer™ Information Blog by [Marcus P. Zillman, M.S., A.M.H.A.](#). It is a freely available 21-page PDF document (458KB) listing the latest and greatest online resources and sites for quality information resources! Completely updated including all links validated and new links added on **December 3, 2025**. Other 2025 white papers are available by clicking [here](#). In today's fake news and misinformation environment, this is a must-needed resource to keep you on the correct path for all your information needs in the [2026 New Economy](#). Visit my 2025 Subject Tracers™ by clicking [here](#).

LLRX> Drone Resources 2025

<https://www.llrx.com/2025/11/drone-resources-2025/>

For 15 years drones have been ubiquitous in film and television productions, making sweeping aerial views the norm for viewers. The FAA and the military employed early drone technology prior to the entertainment industry, subject to varying degrees of regulation and oversight. It is now regularly deployed in the aviation and defense sectors, as well as in construction, agriculture and law enforcement. Public use of drones became more prevalent in the 2020s as the hobbyist community grew. This article by Marcus P. Zillman includes links to a range of guides for current and future drone pilots pertaining to photography, medicine, civil security, real estate, e-commerce, as well as product reviews and buying guides.

Deep Web Research and Discovery Resources 2025 – December 2025 Edition

<http://www.DeepWeb.us/>

I have just updated my white paper link dataset compilation and titled **Deep Web Research and Discovery Resources 2025** and it is now a 116-page PDF document (1.52MB) freely available directly from the above URL. This update verified all links as well as reviewed all resources covered including adding additional links. Currently, this has been downloaded over 12,000,000+ times! [Updated on **December 4, 2025**]

Updated> 2025 International Trade Resources

http://whitepapers.virtualprivatelibrary.net/2025_International_Trade_Resources.pdf
<http://www.InternationalTradeResources.info/>

The 2025 International Trade Resources has just been updated and is now a 27-page freely available link compilation for a selected group of competent international trade resources that are available over the Internet. These resources are designed to be your International Trade Library and to give you the latest and greatest internet search resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops.**

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<http://www.AwarenessWatch.com/>

zillman@VirtualPrivateLibrary.com

eVoice: 239-206-3450

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Your complete international trade library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my 2025 [Subject Tracers](#). [Updated on **December 5, 2025**; 28 pages; 537KB PDF]

Open Educational Resources (OER) Sources 2025 – December 2025 Edition

<http://www.OERSources.com/>

[Click to access OERSources.pdf](#)

“Open Educational Resources (OER) Sources 2025 are freely accessible, openly licensed text, media, and other digital assets that are useful for teaching, learning, and assessing as well as for research purposes” [Wikipedia]. Costs continue to rise for students who are pursuing college and post-graduate degree programs. By leveraging best practice sites, services, and non-traditional options to expand knowledge, skills, and abilities in many disciplines, students can choose from a wide range of options to complete their respective goals. This freely available guide, Open Educational Resources (OER) Sources 2025, is a comprehensive listing of useful open educational resources, sources, and sites on the Internet that can assist you in optimizing your learning opportunities. This will be added to [OERSearchEngine.com](#). This will be added to [Education and Academic Resources](#) Subject Tracer™. This will be added to [Student Research Resources](#) Subject Tracer™. Completely updated including all links validated **December 6, 2025**. [81 pages; 1.11 MB PDF]

Updated> Script and Code Resources 2025

[\[Download Script and Code Resources 2025 White Paper Link Dataset Compilation\]](#)

Script and Code Resources 2025 ([ScriptResources.info](#)) is a Subject Tracer™ Information Blog developed and created by the [Virtual Private Library™](#). It is designed to monitor script and code resources on the World Wide Web and listed below. We always welcome suggestions of additional sites and resources to be added to this comprehensive listing and please submit by clicking [here](#). This site has been developed and maintained by Marcus P. Zillman, M.S., A.M.H.A.; Internet [expert](#), [author](#), [keynote speaker](#), and [consultant](#). His latest white papers include [Searching the Internet 2025](#), [Academic and Scholar Search Engines and Sources 2025](#), and [Knowledge Discovery Resources 2025](#). All of his 2025 Subject Tracer™ Information Blogs and his 2025 white papers are available from [WhitePapers.us](#). His latest monthly column is available by clicking [here](#). Subscribe to his free monthly **Awareness Watch™** Newsletter. Learn more by clicking [here](#). Completely reviewed and updated on **December 8, 2025**; 31 pages; 553KB PDF. © 2007 – 2025 Marcus P. Zillman, M.S., A.M.H.A.

New Normal Startup Resources 2025 – December 2025 Edition

http://whitepapers.VirtualPrivateLibrary.net/New_Normal_Startup_Resources.pdf

The white paper link dataset compilation of the **New Normal Startup Resources 2025** Subject Tracer™ Information Resource by [Marcus P. Zillman, M.S., A.M.H.A.](#) has just

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Awareness Watch V24N1 January 2026 Newsletter

<http://www.AwarenessWatch.com/>

zillman@VirtualPrivateLibrary.com

eVoice: 239-206-3450

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been updated on **December 8, 2025** and is now a freely available 57-page PDF document (882KB) listing the latest and greatest online resources and sites for new normal startup resources! Other 2025 white papers are available by clicking [here](#). This is a MUST publication for every business in today's post COVID-19 world, the latest AI and more!

Updated> Prediction Markets 2025

[[Download Prediction Markets 2025 White Paper Link Dataset Compilation](#)]

Prediction Markets 2025 ([PredictionMarkets.com](#)) and Information Futures Markets ([InformationFuturesMarkets.com](#)) are Subject Tracer™ Information Blogs developed and created by the [Virtual Private Library™](#). They are designed to monitor prediction and information futures markets on the World Wide Web and listed below. We always welcome suggestions of additional sites and resources to be added to this comprehensive listing and please submit by clicking [here](#). This site has been developed and maintained by Marcus P. Zillman, M.S., A.M.H.A.; Internet [expert](#), [author](#), [keynote speaker](#), and [consultant](#). His latest white papers include [2025 Guide to Searching the Internet](#), [Academic and Scholar Search Engines and Sources 2025](#), and [Knowledge Discovery Resources 2025](#). All of his 2025 Subject Tracer™ Information Blogs and his 2025 white papers are available from [WhitePapers.us](#). His latest monthly column is available by clicking [here](#). Subscribe to his free monthly **Awareness Watch™** Newsletter. Learn more by clicking [here](#). Updated on **December 8, 2025**; 25 pages; 485KB PDF.

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Updated> 2025 Guide to Finding Experts By Using the Internet

<http://www.FindingExperts.info/>

I have just created a new white paper link compilation called **2025 Guide to Finding Experts By Using the Internet**. This is now a 24-page PDF file (499KB) and freely available from the above URL. 2025 Guide to Finding Experts By Using the Internet is dedicated to giving you internet sources to discover the needed expert(s) that you have been looking for. The Internet is a vast global resource of knowledge created by experts and the ability to find and contact these experts is extremely important for both academic activities as well as business and special interest needs. Completely updated including all links validated and new links added on **December 9, 2025**; [24 pages; 499KB PDF]. Additional 2025 white papers available by clicking [here](#).

Updated> Start Up Resources for Entrepreneurs 2025

<http://www.StartUpResources.us/>

Start-Up Resources is a publication from the Virtual Private Library and is freely available from the above URL. Sections include: a). Idea Validation – How To Validate Your Startup Idea; b). Bootstrapping; c). Pitching; d). Lean Startup; e). Customer Development (CustDev); f). Minimum Viable Product (MVP); g). Launching; h). Funding/Venture Capital/Seed Capital/Angel Investing; i). Landing Page Optimization; j). PR/Press/Marketing; k). Conversion Rate Optimization; l). Tools, Resources, and Videos; and m). 2025 Subject Tracer™ Information Blogs. This is now a 57-page PDF

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Awareness Watch V24N1 January 2026 Newsletter

<http://www.AwarenessWatch.com/>

zillman@VirtualPrivateLibrary.com

eVoice: 239-206-3450

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document (859KB) and updated on **December 9, 2025**. This has been added to to [Entrepreneurial Resources](#) Subject Tracer™ and available from that page.

Updated> Elder Resources 2025

<http://www.ElderResources.info/>

The above is the white paper link dataset compilation of [Elder Resources 2025](#) by [Marcus P. Zillman, M.S., A.M.H.A.](#) It is a 22-page PDF document (649KB). [Completely updated with all links validated and new URLs added on **December 10, 2025**] Other 2025 white papers are available by clicking [here](#).

Updated> Internet Demographics 2025

<http://www.InternetDemographics.info/>

I have just updated my Subject Tracer™ white paper link dataset compilation titled **Internet Demographics 2025** which is now a 17-page paper listing selected resources both new and existing that will help anyone who is attempting to find the latest information about Internet demographics that are available over the Internet. It is freely available as a PDF file (388KB) at the above link from the Virtual Private Library™ and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#) It was updated with all links validated and new links added: **December 10, 2025**. Other 2025 white papers are available by clicking [here](#). Visit my just updated for 2025 54 Subject Tracers™ by clicking [here](#).

Updated> Internet-of-Things (IoT) Resources 2025

<http://www.Internet-of-Things.ws/>

A resources listing of the Internet-of-Things (IoT) 2025. It is estimated within the next years that almost everything will be connected to the Internet (trillion upon trillion) and these are the resources and sites that will make this all possible. Visit this resource to see the real future of the Internet and the Internet-of-Things!! [16 pages; 493KB PDF] Recreated on **December 11, 2025**. Visit all of Zillman's freely available 2025 publications by clicking [here](#).

Updated> eReference Library Link Dataset Toolkit 2025

<http://www.eReferenceLibrary.com/>

The eReference Library Link Dataset Toolkit 2025 has been completely updated, reviewed and is now a 61-page freely available white paper link compilation for a selected group of reference resources that are available over the Internet. These resources are designed to be your eReference Library and to give you the latest and greatest reference resources available on the Internet. The eReference Library Link Toolkit 2025 has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and designed specifically for use on iPads, iPhone, Androids, Smart Phones, and netbooks/laptops. Updates to this toolkit are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Additional freely available 2025

white papers by Marcus P. Zillman are available by clicking [here](#). [Completely updated including new links added on **December 11, 2025**; 61 pages; 792KB PDF]

Updated> Grid, Distributed and Cloud Computing Resources Primer 2025

http://WhitePapers.VirtualPrivateLibrary.net/Cloud_Computing_Primer.pdf

I am very pleased to announce that I have just updated my **Grid, Distributed and Cloud Computing Resources Primer 2025**. This primer is now a 29-page PDF document (507KB) and is freely available from the above URL. This primer gives an excellent overview of Cloud Computing along with a comprehensive listing of cloud, grid, and distributed computing resources! It will be permanently archived in my [White Papers](#) site and is also available from my main [site](#). [Updated with new links added on **December 12, 2025**]

Updated> Using the Internet and AI as a Dynamic Resource Tool for Knowledge Discovery 2025

<http://www.zillman.us/white-papers/using-the-internet-as-a-dynamic-resource-tool-for-knowledge-discovery/>

Research white paper titled “*Using the Internet and AI as a Dynamic Resource Tool for Knowledge Discovery 2025*” is a 19-page research paper listing many resources both new and existing that will help anyone who is attempting to perform information and knowledge research and discovery on the Internet. It is freely available as a PDF file (870KB) at the above link from the [Virtual Private Library™](#) and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#) It was updated with all links validated and new links added on **December 12, 2025**. Other white papers are available by clicking [here](#).

Updated> Web Guide for the New Economy 2025

<http://www.WebGuideNewEconomy.com/>

The **Web Guide for the New Economy 2025** by [Marcus P. Zillman, M.S., A.M.H.A.](#) has just been recreated and represents the latest world wide web resources for discovering new knowledge and understanding the latest happenings with regards to the New Economy. Understanding the required new economy analytics, resources, and alerts will give you the necessary tools to maintain your current position, improve your position and discover the new knowledge required to be the leader in your profession in the New Economy! Download this freely available web guide today! Updated with all links validated and new links added and released on **December 13, 2025**; 44 pages; 698KB PDF. Additional white papers by Marcus P. Zillman are available by clicking [here](#).

January 2026 Zillman Column: Link Guide for the 2026 Entrepreneur’s AI Toolkit

http://columns.virtualprivatelibrary.net/Link_Guide_2026_Entrepreneur_AI_Toolkit_Jan_26_column.pdf

<http://www.ZillmanColumns.com/>

The January 2026 Zillman Column featuring **Link Guide for the 2026 Entrepreneur’s AI Toolkit** by Marcus P. Zillman, M.S., A.M.H.A.; Executive Director of the Virtual



Private Library. This is a comprehensive listing of niched internet online entrepreneur AI resources, sites, and tools on the Internet and available in the new “zoom” education/learning/business/social age. These competent Internet online entrepreneur AI resources as well as ChatGPT and Generative AI resources and tools will be your search engine for your Internet online entrepreneur AI research sources and tools. The below list of [sources](#) is partially taken from my **Artificial Intelligence Resources 2025/2026** and my just released **Artificial Intelligence (AI) Guide for the 2026 Entrepreneur** and is constantly updated with my Subject Tracer™ bots at the following URLs <http://www.AIResources.info> and <http://www.AIGuide2026Entrepreneur.com/>. These tools, resources, and sources will help you to discover the many pathways available to you through the Internet to find the latest Internet online entrepreneur AI research resources including ChatGPT and Generative AI research resources, sources, and sites. This is another MUST have column to discover the latest 2025/2026 competent and niched online new and existing entrepreneur AI research resources and tools to give you the information you need in today’s ever-changing and fast-paced [2025 New Economy](#) and the [New Normal 2025](#).

Updated> Current Awareness Tools 2025

http://whitepapers.virtualprivatelibrary.net/current_awareness_tools_2025.pdf

Research white paper titled “**Current Awareness Tools 2025**” is a 20-page research paper listing many resources both new and existing that will help anyone who is attempting to find information and knowledge research about current awareness tools available on the Internet. It is freely available as a PDF file (270KB) at the above link from the Virtual Private Library™ and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#) It was recreated on **December 15, 2025**. Other 2025 white papers are available by clicking [here](#). Direct URL Bookmark: <http://www.CurrentAwarenessTools.com/>

Updated> Web Data Extractors 2025

<http://WhitePapers.VirtualPrivateLibrary.net/WebDataExtractors.pdf>

Research white paper link compilation titled “Web Data Extractors 2025” is an updated 26-page research paper listing many resources both new and existing that will help anyone who is attempting to find information and knowledge research about web data extraction on the Internet. It is freely available as a PDF file (556KB) at the above link from the Virtual Private Library™ and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#) Updated on **December 15, 2025**. Other 2025 white papers are available by clicking [here](#). All of Zillman’s 2025 Publications are freely available by clicking [here](#).

Bookmark: <http://www.WebDataExtractors.com/>

Updated> Astronomy Resources 2025

<https://www.zillman.us/subject-tracers/astronomy-resources/>

<http://www.AstronomyResources.info/>

The above is the associated white paper link dataset compilation of the Astronomy Resources 2025 Subject Tracer™ Information Blog by [Marcus P. Zillman, M.S.,](#)



[A.M.H.A.](#) It is now a 29-page PDF document (538KB). [Completely updated with all links validated and new links added on **December 16, 2025**] Other 2025 vwhite papers are available by clicking [here](#).

Updated> Bots, Blogs and News Aggregators 2025

<http://www.BotsBlogs.com/>

Research white paper link dataset compilation **Bots, Blogs and News Aggregators 2025** is now a 20-page research paper listing many resources both new and existing that will help anyone who is attempting to find information and knowledge research about bots, blogs and news aggregator tools currently available on the Internet. It is freely available as a .pdf file (692kb) at the above link from the Virtual Private Library™ and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#). It was completely updated on **December 16, 2025**. Other 2025 white papers are available by clicking [here](#).

Updated> 2025 Directory of Directories

http://whitepapers.VirtualPrivateLibrary.net/2025_Directory_of_Directories.pdf

<http://www.2025DirectoryOfDirectories.com/>

The above is a white paper link dataset compilation of the [2025 Directory of Directories](#) Subject Tracer™ Information Blog by Internet Expert [Marcus P. Zillman, M.S., A.M.H.A.](#). This **2025 Directory of Directories** covers all the competent and well maintained directories available from the Internet and makes for an excellent alternative search resource! It is now a 34-page PDF document (492KB). Updated on **December 17, 2025** and other 2025 white papers are available by clicking [here](#). All of Zillman's 2025 Publications are freely available by clicking [here](#).

Updated> Healthcare Bots and Subject Directories 2025

<http://www.HealthcareBots.info/>

Healthcare Bots and Subject Directories 2025 is a 33-page research paper listing selected resources both new and existing that will help anyone who is attempting to find the latest information about healthcare search engines and healthcare subject directories available on the Internet. It is freely available as a PDF file (651KB) at the above link from the Virtual Private Library™ and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#) It was updated on **December 17, 2025**. Other 2025 white papers are available by clicking [here](#).

Updated> ShoppingBots and Online Shopping 2025

[\[Download Freely Available ShoppingBots and Online Shopping 2025 White Paper Link Dataset Compilation\]](#)

ShoppingBots ([ShoppingBots](#)) is a Subject Tracer™ Information Blog developed and created by the [Virtual Private Library™](#). It is designed to monitor shoppingbots and online coupon resources on the World Wide Web and listed below. We always welcome suggestions of additional sites and resources to be added to this comprehensive listing and please submit by clicking [here](#). This site has been developed and maintained by Marcus P. Zillman, M.S., A.M.H.A.; Internet [expert](#), [author](#), [keynote speaker](#), and

[consultant](#). His latest white papers include [2025 Guide to Searching the Internet](#), [Academic and Scholar Search Engines and Sources 2025](#), and [Knowledge Discovery Resources 2025](#). All of his 2025 Subject Tracer™ Information Blogs and his 2025 white papers are available from [WhitePapers.us](#). His latest monthly column is available by clicking [here](#). Visit all his 2025 publications by clicking [here](#). Updated on **December 18, 2025**; 29 pages; 559KB PDF. This is the **29th annual edition** starting back in 1996!
© 1996 – 2025 Marcus P. Zillman, M.S., A.M.H.A.

Updated> Internet Experts 2025

<http://www.InternetExperts.info/>

Internet Experts 2025 is a Subject Tracer™ Information white paper created and designed by the [Virtual Private Library](#) for monitoring resources and sites on the internet for experts in every field and is freely available. This has been updated and it is a 23-page PDF document (511KB). Updated on **December 18, 2025**.

Updated> Bot Research 2025

<http://www.BotResearch.info/>

The above is the associated white paper link dataset compilation of the [Bot Research](#) Subject Tracer™ Information Blog by [Marcus P. Zillman, M.S., A.M.H.A.](#) It is a 28-page PDF document (518KB). [New links added on **December 19, 2025**] Other white papers are available by clicking [here](#). All 2025 Subject Tracers available by clicking [here](#).

Updated> Intrapreneurial Resources 2025

[[Download Intrapreneurial Resources 2025 White Paper Link Compilation](#)]

Intrapreneurial Resources 2025 ([IntrapreneurialResources.info](#)) is a Subject Tracer™ Information Blog developed and created by the [Virtual Private Library™](#). It is designed to monitor intrapreneurial resources on the World Wide Web and listed below. We always welcome suggestions of additional sites and resources to be added to this comprehensive listing and please submit by clicking [here](#). This site has been developed and maintained by Marcus P. Zillman, M.S., A.M.H.A.; Internet [expert](#), [author](#), [keynote speaker](#), and [consultant](#). His latest white papers include [Searching the Internet 2025](#), [Academic and Scholar Search Engines and Sources 2025](#), and [Knowledge Discovery Resources 2025](#). All of his 2025 Subject Tracer™ Information Blogs and his 2025 white papers are available from [WhitePapers.us](#). His latest monthly column is available by clicking [here](#). Subscribe to his free monthly **Awareness Watch™** Newsletter. Learn more by clicking [here](#). Completely reviewed and updated on **December 19, 2025**; 16 pages; 405KB PDF. © 2015 – 2025 Marcus P. Zillman, M.S., A.M.H.A.

Updated> Financial Sources 2025

<https://www.zillman.us/subject-tracers/financial-sources/>
<http://www.FinancialSources.info/>

The above is the associated white paper link dataset compilation of the Financial Sources 2025 Subject Tracer™ Information Blog by [Marcus P. Zillman, M.S., A.M.H.A.](#) It is a 37-page PDF document (622KB). Updated on **December 20, 2025**. Other 2025 white papers are available by clicking [here](#). Other 2025 Subject Tracers available [here](#).

Updated> Open MetaVerse Resources 2025

http://whitepapers.virtualprivatelibrary.net/OpenMetaVerse_Resources.pdf
<http://www.OpenMetaVerse.us/>

Open MetaVerse is a term that will keep popping up with more frequency during the AI boom. Open MetaVerse can drastically change business operations across any vertical or industry!. A must read to survive the future! Updated constantly... Updated: **December 20, 2025**; 23 pages; 609KB PDF.

Updated> 2025 Privacy Resources

<http://www.PrivacyResources.info/>

The white paper link dataset compilation for **2025 Privacy Resources** by [Marcus P. Zillman, M.S., A.M.H.A.](#) is a 53-page PDF document (795KB). The 2025 Privacy Resources is a comprehensive listing of privacy resources currently available on the Internet. These include associations, indexes, search engines as well as individual websites and sources that supply the latest technology and information about privacy and how it relates to you and the Internet. This is a **MUST** reference for today's [New Economy](#) where privacy and security have become major issues!! Keep your privacy and security up to date with this excellent 20

Updated> Finding People Resources and Sites 2025

<http://whitepapers.virtualprivatelibrary.net/2025FindingPeople.pdf>

Finding People Resources and Sites 2025 has just been updated and is now a 24-page freely available link compilation for a selected group of competent finding people resources that are available over the Internet. These resources are designed to be your Finding People Library and to give you the latest and greatest finding people resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete finding people library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my 2025 [Subject Tracers](#).
[Updated on **December 22, 2025**; 24 pages; 468KB PDF]

Updated> Fact Check Resources Miniguide 2025

http://WhitePapers.VirtualPrivateLibrary.net/Fact_Check_MiniGuide_2025.pdf

<http://www.FactCheckMiniguide.com/>

<http://www.FactFinderMiniguide.com/>

The above is an updated publication **Fact Check Resources Miniguide 2025** by [Marcus P. Zillman, M.S., A.M.H.A.](#). It is a freely available 24-page PDF document (487KB) listing the latest and competent online resources and sites for fact-checking resources! Other white papers are available by clicking [here](#). In today's fake news, disinformation, and misinformation environment, this is a must-needed resource to keep you on the correct path for all your information needs. Also visit my **2025 54 Subject Tracers™** by clicking [here](#). Also visit my freely available **2025 Zillman Publications** by clicking [here](#). Updated: **December 23, 2025**; 24 Pages 487KB.

Updated> Social Informatics 2025

[[Download Social Informatics 2025 White Paper Link Dataset Compilation](#)]

Social Informatics 2025 ([SocialInformatics.net](#)) is a Subject Tracer™ Information Blog developed and created by the [Virtual Private Library™](#). It is designed to monitor social informatics on the World Wide Web and listed below. We always welcome suggestions of additional sites and resources to be added to this comprehensive listing and please submit by clicking [here](#). This site has been developed and maintained by Marcus P. Zillman, M.S., A.M.H.A.; Internet [expert](#), [author](#), [keynote speaker](#), and [consultant](#). His latest white papers include [Searching the Internet 2025](#), [Academic and Scholar Search Engines and Sources 2025](#), and [Knowledge Discovery Resources 2025](#). All of his 2025 Subject Tracer™ Information Blogs and his 2025 white papers are available from [WhitePapers.us](#). His latest monthly column is available by clicking [here](#). Subscribe to his free monthly **Awareness Watch™** Newsletter. Learn more by clicking [here](#). Reviewed and updated on **December 23, 2025**; 31 pages; 560KB PDF. © 2008 – 2025 Marcus P. Zillman, M.S., A.M.H.A.

Updated> Augmented Data Discovery 2025

http://whitepapers.virtualprivatelibrary.net/Augmented_Data_Discovery.pdf

<http://www.AugmentedDataDiscovery.com/>

Augmented Data Discovery 2025 is an updated white paper dataset by [Marcus P. Zillman, M.S., A.M.H.A.](#) releasing resources and sites covering augmented data discovery available from the Internet. This is a very “hyped” area and these resources will help you to understand by giving you the basic knowledge needed 17-page PDF file (368KB). Updated on **December 24, 2025**. Visit all my 2025 Subject Tracers™ by clicking [here](#). Visit all my freely available 2025 publications by clicking [here](#). Power this with my [Generative AI](#) and the future begins!! Apple's announcement reinforces this!!

Updated> Statistics Resources and Big Data 2025

[Download Statistics and Big Data Resources 2025 White Paper Link Dataset Compilation](#)

Statistics Resources and Big Data 2025 (StatisticsResources.com) is a Subject Tracer™ Information Blog developed and created by the [Virtual Private Library™](#). It is designed to monitor statistics and big data resources on the World Wide Web and listed below. We always welcome suggestions of additional sites and resources to be added to this comprehensive listing and please submit by clicking [here](#). This site has been developed and maintained by Marcus P. Zillman, M.S., A.M.H.A.; Internet [expert](#), [author](#), [keynote speaker](#), and [consultant](#). His latest white papers include [2025 Guide to Searching the Internet](#), [Academic and Scholar Search Engines and Sources 202](#), and [Knowledge Discovery Resources 2025](#). All of his 2025 Subject Tracer™ Information Blogs and his 2025 white papers are available from WhitePapers.us. His latest monthly column is available by clicking [here](#). Subscribe to his free monthly **Awareness Watch™** Newsletter. Learn more by clicking [here](#). Completely reviewed and updated on **December 24, 2025**; 36 pages; 627KB PDF. © 2007 – 2025 Marcus P. Zillman, M.S., A.M.H.A.

Awarenesswatch™ Paper Review

Facebook's Data Enclave and Woes of Researching Social Media Recommendation Algorithms: A Reflection on Methods by Aanila Kishwar

<https://firstmonday.org/ojs/index.php/fm/article/view/14550/12114>

Abstract

Over the past decade, social media platforms have grown to dominate online communication, yet researchers' access to platform data has become increasingly limited. The shutdown of application programming interfaces (APIs) and the discontinuation of CrowdTangle have significantly narrowed the avenues available for data collection. At the same time, heightened verification requirements for account creation and activity have introduced additional barriers to studying the recommendation algorithms that shape what users see and engage with. This paper takes Facebook as a focal case to document the shrinking opportunities for independent data collection. It presents a case study of an algorithmic audit project that proved feasible in its pilot phase but collapsed under tightened verification regimes. I argue that the current research environment is not only volatile but also inequitable: while billions of people communicate on social media, the conditions for independent oversight have been systematically eroded. Platforms tightly guard their black-boxed algorithmic systems, selectively granting meaningful access only to internal teams or a narrow circle of affiliated scholars, leaving much of the academic field, especially early-career researchers, without viable tools for audit studies. This work

contributes to critical platform studies by situating methodological failures not as mere setbacks but as empirical evidence of how platforms structure the very conditions of their own study. In doing so, it foregrounds the volatility of research access as a systemic issue and raises urgent questions about who will be able to study the algorithmic systems that increasingly shape digital life.

2025/2026 Subject Tracer™ Information Blogs

Subject Tracer™ Information Blogs created and developed by the Virtual Private Library™ combine the best of the latest tools on the Internet. Using bots, blogs and news aggregators the Subject Tracer™ Information blogs generate RSS feeds with the latest resources to create a current information resource flow through niched subject tracers. I am proud to be the creator of the Internet's first Subject Tracer™ Information Blogs:

Accessibility Resources

<http://www.AccessibilityResources.info/>

Agriculture Resources

<http://www.AgricultureResources.info/>

AnswerSpot

<http://www.AnswerSpot.co/>

Artificial Intelligence Resources

<http://www.AIResources.info/>

Astronomy Resources

<http://www.AstronomyResources.info/>

Auction Resources

<http://www.AuctionResources.info/>

Biological Informatics

<http://www.BiologicalInformatics.info/>

Biotechnology Resources

<http://www.BiotechnologyResources.info/>

Bot Research

<http://www.BotResearch.info/>



Business Intelligence Resources

<http://www.BIResources.com/>

ChatterBots

<http://www.ChatterBots.info/>

Data Mining Resources

<http://www.DataMiningResources.info/>

Deep Web Research

<http://www.DeepWebResearch.info/>

Directory Resources

<http://www.DirectoryResources.info/>

eCommerce Resources

<http://eCommerceResources.info/>

Education and Academic Resources

<http://www.EducationResources.info/>

Elder Resources

<http://www.ElderResources.info/>

Employment Resources

<http://www.EmploymentResources.info/>

Entrepreneurial Resources

<http://www.EntrepreneurialResources.info/>

Fact Checkers Resources

<http://www.FactCheckers.us/>

Financial Sources

<http://www.FinancialSources.info/>

Finding People

<http://www.FindingPeople.info/>

Games Resources

<http://www.GamesResources.info/>

Genealogy Resources

<http://www.GenealogyResources.info/>

Grant Resources

<http://www.GrantResources.info/>

Green Files

<http://www.GreenFiles.info/>

Grid, Distributed and Cloud Computing Resources

<http://www.GridResources.info/>

Healthcare Resources

<http://www.HealthcareResources.info/>

Information Futures Markets

<http://www.InformationFuturesMarkets.com/>

Information Quality Resources

<http://www.InformationQualityResources.info/>

International Trade Resources

<http://www.InternationalTradeResources.info/>

Internet Alerts

<http://www.InternetAlerts.info/>

Internet Demographics

<http://www.InternetDemographics.info/>

Internet Experts

<http://www.InternetExperts.info/>

Internet Hoaxes

<http://www.InternetHoaxes.info/>

Intrapreneurial Resources

<http://www.IntrapreneurialResources.info/>

Journalism Resources

<http://www.JournalismResources.info/>

Knowledge Discovery

<http://www.KnowledgeDiscovery.info/>

Military Resources

<http://www.MilitaryResources.info/>

New Economy Analytics, Resources and Alerts

<http://www.NewEconomyAnalytics.com/>

Outsourcing/Offshoring Information and Resources

<http://www.OutsourcingOffshore.us/>

Predictions Markets

<http://www.PredictionMarkets.com/>

Privacy Resources

<http://www.PrivacyResources.info/>

Reference Resources

<http://www.ReferenceResources.info/>

Research Resources

<http://www.ResearchResources.info/>

Script Resources

<http://www.ScriptResources.info/>

ShoppingBots

<http://www.ShoppingBots.info/>

Social Informatics

<http://www.SocialInformatics.info/>

Statistics Resources and Big Data

<http://www.StatisticsResources.info/>

Student Research Resources

<http://www.StudentResearch.info/>

Theology Resources

<http://www.TheologyResources.info/>

Tutorial Resources

<http://www.TutorialResources.info/>

World Wide Web Reference

<http://www.WWWReference.info/>

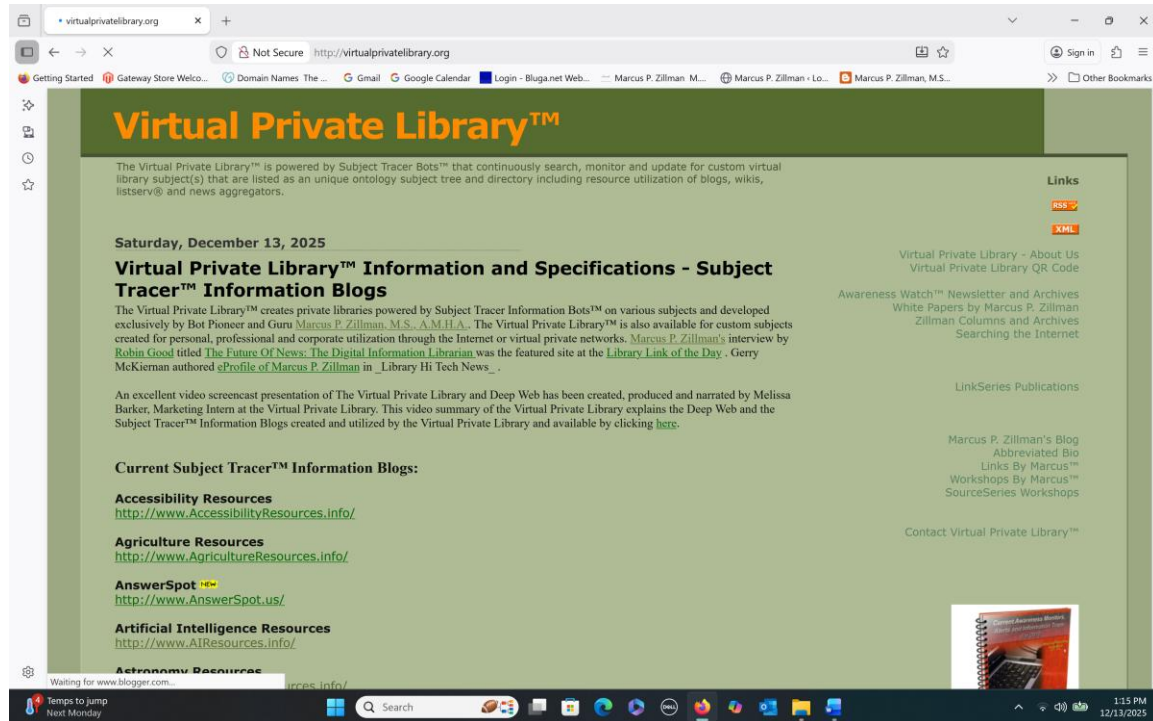


Figure 1: Virtual Private Library™

Author Information: Marcus P. Zillman, M.S., A.M.H.A. Executive Director of the Virtual Private Library is an international Internet expert, author, keynote speaker and corporate consultant in the area of information retrieval, knowledge discovery, knowledge harvesting, artificial intelligence and bots/intelligent agents. He has created numerous world wide web sites including 54 Subject Tracer™ Information Portals and Blogs; written a number of internet miniguides, white papers, manuals and books; hosted over 160 weekly Internet television shows, writes a weekly and monthly column on Current Awareness on the Internet; writes a monthly newsletter Awareness Watch and delivers keynote presentations throughout the international marketplace. He also actively delivers one and two day workshops for key industry sectors displaying how the Internet can be used as a tool to maintain current awareness and professional competencies. Additional websites by Marcus P. Zillman, M.S., A.M.H.A.:



Marcus P. Zillman's Blog (30,000+ Postings)

<http://www.zillman.us/>

Marcus P. Zillman Abbreviated Bio

<http://www.zillman.info/>

Awareness Watch™ Newsletter

<http://www.AwarenessWatch.com/>

Marcus P. Zillman's Columns

<http://www.ZillmanColumns.com>

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SourceSeries Internet Research Workshops

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**Research White Papers, Articles, Lectures and Speeches by Marcus P. Zillman,
M.S., A.M.H.A.:**

2025 Directory of Directories

<http://www.2025DirectoryOfDirectories.com/>

2025 Green Files

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Internet Tutor by Marcus P. Zillman, M.S., A.M.H.A.

<http://www.InternetTutor.info/>

Visit this site to learn about the availability of Marcus P. Zillman to tutor you or your associate one on one in the privacy of your residence or office on the latest happenings of the Internet including Internet basics to advanced Internet searching using bots and creating your own personal blog.

Internet Speaking by Marcus P. Zillman, M.S., A.M.H.A.

<http://www.InternetSpeaker.net>

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Internet Consulting by Marcus P. Zillman, M.S., A.M.H.A.

<http://InternetConsultant.BlogSpot.com/>

Visit this site to obtain information about obtaining the consultation services of Marcus P. Zillman for your company including eCommerce audits, utilization of bots, blogs and news aggregators or the creation of your own personal virtual private library powered by Subject Tracer™ Information bots!

Current Awareness Monitors, Alerts and Information Traps

<http://www.ecurrentAwareness.com/>

Marcus P. Zillman's latest report Current Awareness Monitors, Alerts and Information Traps for is available for purchase online and for immediate download. This report is a comprehensive listing of the latest resources, sources and sites for current awareness on the Internet. This is a must read for anyone who must stay current in their profession and/or business activity as the list of URLs will keep you at the leading edge of your career.

Market Intelligence Resources

<http://www.MarketIntelligenceResources.com/>

Marcus P. Zillman's just released professional Internet MiniGuide is titled Market Intelligence Resources and is available for purchase online and immediate download. This 193 page digital miniguide represents a comprehensive listing of the latest resources, sources and sites to discover the latest Market Intelligence sources available on the Internet with many of them freely available! Designed specifically for today's entrepreneur, professional and/or investor.

Entrepreneurial Links 101

<http://www.EntrepreneurialLinks.com/>

Marcus P. Zillman's newly released 231 page eReference digital book for the up and coming entrepreneur. Entrepreneurial Links 101 gives an alphabetical listing of the very best Internet and World Wide Web sites covering Entrepreneur Resources, Business Intelligence Resources and an extremely comprehensive list of Online Research Tools. This is considered by many to be the entrepreneur's bible for finding relevant and competent online resources!

Internet Privacy and Security Resources

<http://www.InternetPrivacySecurity.net/>

Marcus P. Zillman's latest eReference digital publication is a selected comprehensive alphabetical listing of the latest resources and sites covering all aspects of privacy and security currently available over the Internet. From the board room to the family room, these resources and sites give you the information you need to maintain your privacy and security as you use the Internet in your business and personal life.

Research Resources Online Guide

<http://www.ResearchResourcesOnline.net/>

Marcus P. Zillman's latest [LinkSeries Publication](#) is a 340 page digital guide of a selected comprehensive alphabetical listing of the latest and greatest resources and sites covering all areas of research that is currently available over the Internet. The guide covers online research resources and tools for the Newbie to research as well as the Seasoned researcher. Contents include: a) Research Resources, b) Research Tools, c) Student Research Resources Toolkit, d) Knowledge Discovery/Management and Data Mining Resources, e) Knowledge Discovery/Retrieval and the World Wide Web Resources, f) Business Intelligence Resources, g) Reference Resources, and h) Subject Tracer™ Information Blogs.

The Survivor's Manual for The New Economy.

<http://www.NewEconomyManual.com/>

Marcus P. Zillman's latest LinkSeries Publication is a 239 page digital read that gives excellent resources and annotated sources for the new economy analytics, alerts, ecommerce, financial sources, invisible and deep web resources, social and business



networking sources along with new economy competitive and business intelligence resources and an extremely comprehensive listing of new economy online tools.

