



## **Deep Web Research and Discovery Resources 2019**

By

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Bots, Blogs and News Aggregators 2019 (<http://www.BotsBlogs.com/>) is a keynote presentation that I have been delivering over the last several years, and much of my information comes from the extensive research that I have completed over the years into the “invisible” or what I like to call the “deep” web. The Deep Web covers somewhere in the vicinity of trillions upon trillions of pages of information located through the world wide web in various files and formats that the current search engines on the Internet either cannot find or have difficulty accessing. The current search engines find hundreds of billions of pages at the present time of this writing. This report constantly updated at <http://DeepWeb.us/>.

In the last several years, some of the more comprehensive search engines have written algorithms to search the deeper portions of the world wide web by attempting to find files such as .pdf, .doc, .xls, ppt, .ps. and others. These files are predominately used by businesses to communicate their information within their organization or to disseminate information to the external world from their organization. Searching for this information using deeper search techniques and the latest algorithms allows researchers to obtain a vast amount of corporate information that was previously unavailable or inaccessible. Research has also shown that even deeper information can be obtained from these files by searching and accessing the “properties” information on these files!

This report and guide is designed to give you the resources you need to better understand your search through the currently available web to find those key sources of information nuggets only found by utilizing how to search the “deep web”.



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This **Deep Web Research and Discovery Resources 2019** report and guide is divided into the following sections:

Articles, Papers, Forums, Audios and Videos  
Cross Database Articles  
Cross Database Search Services  
Cross Database Search Tools  
Peer to Peer, File Sharing, Grid/Matrix Search Engines  
Presentations  
Resources - Deep Web Research  
Resources - Semantic Web Research  
Bot and Intelligent Agent Research Resources and Sites  
Subject Tracer Information Blogs

## **ARTICLES, PAPERS, FORUMS, AUDIOS AND VIDEOS** (Current and Historical)

### **8 Best Deep Web People Search Engines**

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<http://www.collegedegree.com/library/college-life/99-resources-to/>

### **A Basic Guide to Diving In To the Dark Web**

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### **A Beginner's Guide to the Dark Web by Ben Dickson**

<https://www.dailydot.com/layer8/what-is-dark-web/>

### **Academic and Scholar Search Engines and Sources 2019**

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

### **Accessing the Deep Web and Dark Web with Tor by Jack Jones**

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### **Access the Deep Web and Protect Your Privacy Online with Anonabox by Marco Chiappetta**

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<http://www.cs.binghamton.edu/~meng/pub.d/sigmod04-final.pdf>

**Annotation for the Deep Web**  
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**An Up-To-Date Layman's Guide To Accessing The Deep Web**  
<https://www.fastcompany.com/3026989/an-up-to-date-laymans-guide-to-accessing-the-deep-web>

**A Primer on Staying Secure and Anonymous on the Dark Web by Mark Turner**  
<http://www.techspot.com/guides/1292-web-security-anonymizer-primer/>

**Articles on Deep and Dark Web Published by Associations of Internet Research Specialists (AIRS)**  
<https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/itemlist/category/20-deep-web>

**Automatic Extraction of Web Search Interfaces for Interface Schema Integration by H. He, W. Meng, C. Yu, Z. Wu**  
<http://www.cs.binghamton.edu/~meng/pub.d/WWWposterhe.pdf>

**Automatic Information Extraction From Semi-Structured Web Pages By Pattern Discovery**  
<http://dl.acm.org/citation.cfm?id=640423&dl=ACM&coll=portal>

**Automatic Meaning Discovery Using Google by Rudi Cilibrasi and Paul M. B. Vitanyi**  
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<http://www.kcls.org/>

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<https://censys.io/>

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

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**DarkWeb News – Deep Web**

<https://darkwebnews.com/category/deep-web/>



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**DarkWeb News - The Ultimate Dark Web Resource**

<https://darkwebnews.com/>

**Data Mining Resources 2019**

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

**Datasets for Data Mining and Data Science**

<https://www.kdnuggets.com/datasets/index.html>

**DeepDive - Analyze Data On a Deeper Level Than Ever Before**

<http://deepdive.stanford.edu/>

**Deep.Dot.Web**

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

**Deep Web - Discover Resources That Help You Mine the Deep or Invisible Web Instead of Just Searching the Surface**

<http://libguides.msubillings.edu/c.php?g=242182&p=1610131>

**Deep Web Links – Massive Deep Websites Links and URLs**

<https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/19104-deep-web-links-massive-deep-websites-links-and-url>

**Deep Web Research and Discovery Resources 2019**

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

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

**Deep Web Search**

<http://deep-web.org/>

**Deep Web Sites**

<http://www.deepweb-sites.com/>

**Deep Web Technologies – federated search**

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

**Deep Web University**

<https://brightplanet.com/deep-web-university/>

**Digital Shadows**

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



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### **Directory Resources 2018**

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

### **eGreenBot 2018 - Green Resources Search Engine**

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

### **eHealthcare Bot 2019 Deep Meta Search Engine**

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

### **eMarketing Bot 2019 Deep Meta Search Engine**

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

### **ENDECA**

<http://www.oracle.com/us/products/applications/commerce/endeca/overview/index.html>

### **Engineering Village**

<http://www.engineeringvillage.com>

### **EU Open Data Portal**

<https://data.europa.eu/euodp/en/home>

### **Federated Search Blog**

<http://federatedsearchblog.com/>

### **Firefox Monitor**

<https://monitor.firefox.com/>

### **Freely Accessible Databases for the Public**

<http://www.istl.org/01-winter/internet.html>

### **Google Fusion Tables**

<http://www.google.com/drive/apps.html#fusiontables>

### **Google Scholar**

<http://scholar.google.com/>

### **Healthdata.gov**

<https://www.healthdata.gov/>

### **How To Do a Deep Web Search and Why You Should**

<http://www.komando.com/tips/396770/how-to-do-a-deep-web-search-and-why-you-should>



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**Indiegogo Datasets**

<https://webrobots.io/indiegogo-dataset/>

**Internet Archive**

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

**Invisible Library**

<http://invislib.blogspot.com/>

**IOGDS: International Open Government Dataset Search**

<https://logd.tw.rpi.edu/node/9903>

**Kapow Web Collector**

<http://www.automated-info-solutions.com/>

**Karma - Data Integration Tool**

<http://www.isi.edu/integration/karma/>

**KDnuggets: Data Mining, Web Mining, and Knowledge Discovery Guide**

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

**Kickstarter Datasets**

<https://webrobots.io/kickstarter-datasets/>

**Knowledge Discovery 2019**

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

**Knowlesys – Use Deep Data Mining To Find the Intelligence**

<http://knowlesys.com/>

**Large-Scale Deep Web Integration: Incomplete Bibliography**

<http://metaquerier.cs.uiuc.edu/webibib.html>

**Linked Data - Connect Distributed Data Across the Web**

<http://linkeddata.org/>

**LinkingOpenData - W3C SWEO Community Project**

<http://www.w3.org/wiki/SweoIG/TaskForces/CommunityProjects/LinkingOpenData>

**List of Academic Databases and Search Engines - Wikipedia**

[https://en.wikipedia.org/wiki/List\\_of\\_academic\\_databases\\_and\\_search\\_engines](https://en.wikipedia.org/wiki/List_of_academic_databases_and_search_engines)



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**List of Tor Hidden Services from the Wikipedia**

[https://en.wikipedia.org/wiki/List\\_of\\_Tor\\_hidden\\_services](https://en.wikipedia.org/wiki/List_of_Tor_hidden_services)

**MagPortal**

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

**Mappa.Mundi Magazine**

<http://mappa.mundi.net/>

**Mason OER Metafinder**

[https://mason.deepwebaccess.com/mason\\_\\_MasonLibrariesOpenEducationResources\\_5f4/desktop/en/search.html](https://mason.deepwebaccess.com/mason__MasonLibrariesOpenEducationResources_5f4/desktop/en/search.html)

**Mednar - Innovative Medical Search**

<http://mednar.com/>

**Mining the Deep Web for Economic Data**

<https://www.collectiveip.com/grants/NSF:0207603>

**New Zealand Digital Library**

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

**OAI-PMH Implementation Guidelines - Conveying rights expressions about metadata in the OAI-PMH framework**

<http://www.openarchives.org/OAI/2.0/guidelines-rights.htm>

**OAIster**

<http://www.oclc.org/oaister.en.html>

**OECD.StatExtracts - Complete Databases Available Via OECD's iLibrary**

<https://data.oecd.org/>

**Omny Insight Engine - Everything Connected**

<https://www.omny.io/>

**OneLook Dictionary Search**

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

**Onion Browser - An Open-Source Privacy Enhancing Web Browser for iOS**

<https://mike.tig.as/onionbrowser/>



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### **OnionLand Search Engine**

<https://onionlandsearchengine.com/>

### **Open Archives Initiative**

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

### **Open Datasets**

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

<https://github.com/caesar0301/awesome-public-datasets>

<https://www.kaggle.com/datasets>

<https://www.data.gov/>

<https://www.quora.com/Where-can-I-find-large-datasets-open-to-the-public>

<https://aws.amazon.com/public-datasets/>

<https://data.world/>

<http://data.worldbank.org/>

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

### **Open Educational Resources (OER) Sources 2019 and Search Engine**

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

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

### **OpenIndex - Creating a Public Internet Index**

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

### **Open Source Intelligence**

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

### **Open Vulnerability Assessment System (OpenVAS)**

<http://www.darknet.org.uk/2015/01/openvas-7-released-open-source-vulnerability-scanner/>

### **Privacy Resources 2019**

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

### **Project Maelstrom - The Internet We Build Next**

<http://blog.bittorrent.com/category/labs/>

### **re3data.org - 2,000 Data Repositories**

<https://www.re3data.org/>



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**Recommended Gateway Sites for the Deep Web**

<http://people.hws.edu/hunter/deepwebgate03.htm>

**ReportLinker: Industry Reports, Company Profiles and Market Statistics**

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

**SAO/NASA Astrophysics Data System (ADS)**

<http://adswww.harvard.edu/>

**reSearcher**

<http://researcher.sfu.ca/>

**Science and Technology Sources on the Internet**

<http://www.loc.gov/rr/scitech/resources.html>

**Scientific and Technical Information Network (STINET)**

<http://www.loc.gov/flicc/Exemplars/DTIC/DTIC-STINET.PDF>

**Science Commons**

<http://creativecommons.org/science>

**Science.gov - FirstGov for Science - Government Science Portal**

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

**ScienceResearch.com - Deep Web Search Engine**

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

**Scientific Data Repository - Real Time Visualization and Exploration Techniques**

<http://www.mlvis.com/platform.php>

**SciTech Connect**

<http://www.osti.gov/scitech/>

**Scrapinghub Crawls the Deep Web**

<http://blog.scrapinghub.com/2015/02/24/memex/>

**Scrapy Webcrawler**

<http://scrapy.org/>

**SDARTS - A Protocol and Toolkit for Metasearching**

<http://www.cs.columbia.edu/~gravano/Papers/2001/jcdl01b.pdf>



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<http://simile-widgets.org/>

**Social Buzz Bot 2019 (PDF download)**  
<http://www.SocialBuzzBot.com/>

**STN International - Databases in Science and Technology**  
<http://www.stn-international.de/>

**SurfEasy - Online Privacy**  
<https://www.surfeasy.com/>

**Swoogle - Semantic Bot**  
<https://en.wikipedia.org/wiki/Swoogle>

**SWRC Ontology**  
<http://ontoware.org/swrc/>

**Tails - The Amnesic Incognito Live System**  
<https://tails.boum.org/>

**TechDeepWeb - How-To Guide to the Deep Web for IT Professionals**  
<http://www.TechDeepWeb.com/>

**Terbium Labs - Matchlight Proactive Security In an Insecure World**  
<https://terbiumlabs.com/>

**The 10 Best Deep Web Search Engines to Explore the Hidden Web by Michelle Fuchs**  
<https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/17217-top-10-best-deep-web-search-engines-to-explore-hidden-web>

**The Deep Web: Shutdowns, New Sites, New Tools by Vincenzo Ciancaglini**  
<http://blog.trendmicro.com/trendlabs-security-intelligence/the-deep-web-shutdowns-new-sites-new-tools/>

**The Enterprise Onion Toolkit**  
<https://github.com/alecmuffett/eotk>

**The Graph That Knows the World**  
<https://www.datanami.com/2018/10/02/the-graph-that-knows-the-world/>



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**The Invisible Internet Project (I2P)**

<https://geti2p.net/en/>

**The World Bank - Data**

<http://data.worldbank.org/>

**THOR: Deep Web Data Extraction**

<http://www.cc.gatech.edu/projects/dis1/THOR/>

**Top 10 Best Deep Web Search Engines To Explore the Hidden Web**

<https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/18749-top-10-best-deep-web-search-engines-to-explore-hidden-web>

**Tor Browser Bundle – Anonymity**

<https://www.torproject.org/projects/torbrowser.html.en>

**TOR For Newbies - When Should You Use It?**

<http://www.makeuseof.com/tag/tor-for-newbies/>

**Tor Project**

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

**Tor Stack Exchange**

<http://tor.stackexchange.com/>

**TRID - The TRIS and ITRD Database (Transportation Research Board)**

<http://trid.trb.org/>

**TunnelBear - Simple, Private, Free Access to the Global Internet**

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

**Twitter/Search #deepweb**

<https://twitter.com/search?q=%23deepweb>

**UC Irvine Machine Learning Repository**

<https://archive.ics.uci.edu/ml/index.php>

**UNdata - Data Access System To UN Databases**

<http://data.un.org/>

**UNESCO Information Services - Databases**

<http://www.unesco.org/unesdi/index.php/eng/doc/tous.html>



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### **United States Census Bureau Research**

<https://www.census.gov/research/>

### **Useful Tips and Tools to Research the Deep Web**

<http://www.online-college-blog.com/features/100-useful-tips-and-tools-to-research-the-deep-web/>

### **US Government Web Services and XML Data Sources**

<http://usgovxml.com/>

### **Virtual Private Networks Directory of Best Services**

<http://www.makeuseof.com/tag/best-vpn-services/>

### **Web Data Extractors 2019**

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

### **WebFountain™ - Analytical engine unstructured data**

[http://en.wikipedia.org/wiki/IBM\\_WebFountain](http://en.wikipedia.org/wiki/IBM_WebFountain)

### **Web IR & IE**

<https://groups.yahoo.com/neo/groups/webir/info>

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

### **WebScales: Towards a Highly Scalable Metasearch Engine**

<http://www.cs.binghamton.edu/~meng/pub.d/PIreport04.html>

### **What Is a VPN - Beginner's Guide to Virtual Private Networks**

<https://www.vpnsrus.com/what-is-a-vpn/>

### **Wolfram Data Respository**

<https://datarepository.wolframcloud.com/>

### **WTO Statistics Database**

<http://stat.wto.org/>

### **Zanran - Search the Web for Data and Statistics**

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

### **Zeef – Deep Web Links**

<https://zeef.com/?query=deep%20web&in=all>



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## **RESOURCES – Semantic Web Research**

### **Analyzing Social Networks on the Semantic Web**

<http://ebiquity.umbc.edu/paper/html/id/202/?EBS=d259cb1bacc16993d8f13615a1925762>

### **DARPA Agent Markup Language**

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

### **Deep Search, Wide Search and Everything Else You Should Know About Semantic Search**

<http://www.dataversity.net/deep-search-wide-search-everything-else-know-semantic-search/>

### **Digital Object Identifier (DOI)**

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

### **FOAF Project - A Semantic Web Application**

<http://www.foaf-project.org/>

### **Foundation for Intelligent Physical Agents (FIPA)**

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

### **GoodRelations Vocabulary - Semantic Web Based eCommerce**

<http://www.heppnetz.de/projects/goodrelations/>

### **Infomesh's Semantic Web Introduction**

<http://infomesh.net/2001/swintro/>

### **International Journal of Metadata, Semantics and Ontologies (IJMSO)**

<http://www.inderscience.com/jhome.php?jcode=ijmso>

### **Jena – A Semantic Web Framework for Java**

<http://jena.sourceforge.net/>

### **Journal of Biomedical Semantics**

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

### **Journal of Web Semantics**

<http://www.journals.elsevier.com/journal-of-web-semantics>

### **Journal of Web Semantics: Preprint Server**

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



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**Knowledge Discovery 2019**

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

**KnowledgeNets**

<http://wissensnetze.ag-nbi.de/>

**Language Engineering for the Semantic Web: A Digital Library for Endangered Languages**

<http://informationr.net/ir/9-3/paper176.html>

**Magpie - The Samatic Filter and Tool For the Semantic Web**

<http://projects.kmi.open.ac.uk/magpie/main.html>

**MetaData at W3C**

<http://www.w3.org/Metadata/>

**MindRaider - Semantic Web Outliner**

<http://mindraider.sourceforge.net/>

**OASIS - Advancing eBusiness Standards**

<https://www.oasis-open.org/>

**Ontology Metadata Vocabulary (OMV)**

<http://omv2.sourceforge.net/>

**O'Reilly's Semantic Web Primer**

<http://www.xml.com/pub/a/2000/11/01/semanticweb/>

**pOWL - Semantic Web Development Plattform**

<http://sourceforge.net/projects/powl/>

**RDF - Resource Description Framework**

<http://www.w3.org/RDF/>

**Rules and Rule Markup Languages for the Semantic Web - RuleML-2003**

<http://www.informatik.uni-trier.de/~ley/db/conf/semweb/ruleml2003.html>

**SameAs.org - Interlinking the Web of Data**

<http://sameas.org/>

**SAO/NASA Astrophysics Data System (ADS)**

<http://adswww.harvard.edu/>



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**Semantic Knowledge Technologies and Language Computation**

<http://gate.ac.uk/projects/sekt/>

**SemanticWeb.org - The Semantic Web Community Portal**

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

**Semantic Web Activity Statement**

<http://www.w3.org/2001/sw/Activity.html>

**Semantic Web for AURIS-MM**

<http://derpi.tuwien.ac.at/~andrei/AURIS-MM-plan.html>

**Semantic Web In Breadth**

<http://logicerror.com/semanticWeb-long>

**Semantic Web Official Site**

<https://www.w3.org/standards/semanticweb/>

**Semantic Web Primer for Object-Oriented Software Developers**

<http://www.w3.org/TR/2006/NOTE-sw-oosd-primer-20060309/>

**Semantic Web Roadmap**

<http://www.w3.org/DesignIssues/Semantic.html>

**Semantic Web – Wikipedia**

[https://en.wikipedia.org/wiki/Semantic\\_Web](https://en.wikipedia.org/wiki/Semantic_Web)

**SenseBot - Semantic Search Engine That Finds Sense On the Web**

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

**Simile Widgets – Free, Open-Source Data Visualization Web Widgets and More**

<http://simile-widgets.org/>

**SourceForge.net: Project Info - OWL API**

<http://sourceforge.net/projects/owlapi>

**Swoogle - Semantic Bot**

<https://en.wikipedia.org/wiki/Swoogle>

**SWRL: A Semantic Web Rule Language Combining OWL and RuleML**

<http://www.daml.org/2003/11/swrl/>



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**Terbium Labs - Matchlight Proactive Security In an Insecure World**

<https://terbiumlabs.com/>

**The Authoritative Resource List for the Semantic Web by Kaila Strong**

<http://www.verticalmeasures.com/search-optimization/the-authoritative-resource-list-for-the-semantic-web/>

**The Cover Pages**

<http://xml.coverpages.org/>

**The Semantic Web: An Introduction**

<http://infomesh.net/2001/swintro/>

**The Semantic Web By Tim Berners-Lee, James Hendler and Ora Lassila**

<https://www.scientificamerican.com/magazine/sa/2001/05-01/#article-the-semantic-web>

**The Semantic Web Is Your Friend**

<http://web.freepint.com/go/newsletter/160#feature>

**Transforming and Enriching Documents for the Semantic Web by Dietmar Roesner, Manuela Kunze, Sylke Kroetzsch**

<http://arxiv.org/abs/cs.AI/0501096>

**uClassify - Free Text Classified Web Service**

<http://uclassify.com/>

**Web Semantics: Science, Services and Agents on the World Wide Web**

<http://www.sciencedirect.com/science/journal/15708268>

**Web Service Modeling Ontology**

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

**Wilbur Toolkit for Semantic Web Programming [Project no longer actively maintained]**

<http://wilbur-rdf.sourceforge.net/>

**World Wide Web Reference 2018**

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

**XML.com: Semantic Web**

<http://www.xml.com/pub/2000/11/01/semanticweb/>



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**XML.org**

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

**Yahoo Groups - SemanticWeb**

<http://groups.yahoo.com/group/semanticweb/>

## **Bot and Intelligent Agent Research Resources and Sites**

**1st Spot**

[http://1st-spot.net/topic\\_agents.html](http://1st-spot.net/topic_agents.html)

**80legs - Powerful and Economical Service Platform for Crawling and Processing Web Content**

<http://www.80legs.com/>

**Agent Construction Tools**

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

**Agents**

<http://aitopics.org/>

**AgentSheets - Authoring Tool to Create Agents**

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

**AhrefsBot - Market Research Bot**

<https://ahrefs.com/robot>

**ALICEBot**

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

**api.ai - Speech Interface for Apps and Devices**

<http://api.ai/>

**Applied Soft Computing**

<http://www.sciencedirect.com/science/journal/15684946>

**Article Search API - New York Times Articles 1981 to Present**

[http://developer.nytimes.com/docs/article\\_search\\_api](http://developer.nytimes.com/docs/article_search_api)

**Artificial Intelligence Resources 2019**

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



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**artoo.js - The Client-Side Scraping Companion**

<http://medialab.github.io/artoo/>

**BEN Portal: BioSciEdNet**

<http://www.bioscienet.org/portal/>

**BotAnalytics - Analytics for Bots**

<http://botanalytics.co/>

**Bot and Intelligent Agent Research Resources 2019**

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

**Botometer**

<https://botometer.iuni.iu.edu/>

**Bots, Blogs and News Aggregators 2019**

<http://www.BotsBlogs.com>

**Caffe - Deep Learning Framework**

<http://caffe.berkeleyvision.org/>

**Chatbase - Analyze and Optimize Bots More Easily**

<https://chatbase.com/>

**ChatBottle Search**

<https://chatbottle.co/>

**ChatterBot - Convert More Customers Automatically**

<https://chtb.io/>

**ChatterBots Resources and Sites 2019**

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

**Chatfuel - Build a Facebook Bot Without Coding**

<https://chatfuel.com/>

**Clara - Digital Employee That Schedules Meetings**

<https://claralabs.com/>

**Common Crawl - Open Repository of Web Crawl Data Composed Of Over 5 Billion Freely Available Web Pages**

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



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**ContusBot - Build Chatbots Super-Charged With Artificial Intelligence**

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

**Contentmine - Text and Data Mining Open Source Tools**

<http://contentmine.org/>

**cQuery - Content Query Engine**

<http://cquery.com/>

**CrawlTrack - Your Web Statistics Tool**

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

**Create a Crawler - Extract Data From an Entire Website**

<http://import.io/>

**Data Mining Resources 2019**

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

**Dataminr - Real-time Information Discovery**

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

**DataparkSearch Engine - Full-Featured Open Source Web-Based Search Engine**

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

**DataRobot - Build Better Predictive Models - Faster**

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

**Deep Web Research 2019**

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

**Design of a Parallel and Distributed Web Search Engine by Salvatore Orlando, Raffaele Perego, and Fabrizio Silvestri**

<http://arxiv.org/abs/cs.IR/0407053>

**Dictionary of Algorithms and Data Structures**

<http://xlinux.nist.gov/dads/>

**Diffbot Analyze API**

<https://www.diffbot.com/dev/docs/analyze/>

**Digital Footprints - Collect Facebook Data**

<http://digitalfootprints.dk/>



**Deep Web Research and Discovery Resources 2019**

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<http://DeepWeb.us/>

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**Ejenta - Intelligent Agents for Connected Care**

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

**Eliza - The Original ChatterBot**

<http://www-ai.ijs.si/eliza/eliza.html>

**Engati - Bot Innovation**

<http://engati.com/>

**Ethereum Frontier Release - A Decentralized Software Platform**

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

**EU Open Data Portal**

<https://data.europa.eu/euodp/en/home>

**EventBots by Sciensio**

<https://www.sciensio.com/eventbots>

**Facepager - Fetching Public Data From Facebook**

<https://github.com/strohne/Facepager>

**FAME (Facilitating Agents in Multiculture Exchange)Project**

[http://cordis.europa.eu/projects/rcn/58337\\_en.html](http://cordis.europa.eu/projects/rcn/58337_en.html)

**File Information Tool Set (FITS)**

<http://fitstool.org/>

**Findo - An Intelligent Search Assistant**

<https://findo.com/>

**Foundation for Intelligent Physical Agents**

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

**Free Robots.txt Generator and Validator**

<http://www.toolsiseek.com/robots-txt-generator-validator>

**Friends of ChatBot Coalition**

<https://www.fcc.ai/>

**Google Guide**

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



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**Gupshup - Bot Building Platform**

<https://www.gupshup.io/>

**HAIKU - Open Source Operating System That Specifically Targets Personal Computing**

<https://www.haiku-os.org/>

**Healthdata.gov**

<https://www.healthdata.gov/>

**How to Make a Web Crawler With Selenium**

<https://www.makeuseof.com/tag/make-web-crawler-selenium/>

**Huginn - Your Agents Are Standing By**

<https://github.com/cantino/huginn>

**HYPHE - Web Corpus Curation Tool Featuring A Research-Driven Web Crawler**

<http://hyphe.medialab.sciences-po.fr/>

**IBM Watson Services**

<https://www.ibm.com/watson/products-services/>

**idavatars - Intelligent Digital Avatars**

<http://idavatars.com/>

**IFR - Federation of Robotics**

<https://ifr.org/>

**Imagination Engines**

<http://www.imagination-engines.com/>

**Import.io - Turn the Web Into Data With Extractors, Crawlers and Connectors**

<https://import.io/>

**Indexing Robot Crawler Checklist**

<http://www.searchtools.com/robots/robot-checklist.html>

**Indiegogo Datasets**

<https://webrobots.io/indiegogo-dataset/>



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**InfoExtractor - Extract Relevant Information from Various Sources Like Blogs, YouTube, and Wikipedia**

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

**Institute for Human and Machine Cognition (IHMC)**

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

**Intellexer - Custom Built Search Engines, Knowledge Management Tools, Natural Language Processing**

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

**Intelligent Information Systems Research Laboratory**

<http://iis.ist.psu.edu/>

**International Journal of Agent-Oriented Software Engineering (IJAOSE)**

<http://www.inderscience.com/jhome.php?jcode=ijaose>

**jSEO - Web Crawler For Search Engine Optimization**

<http://codecanyon.net/item/jseo-web-crawler-for-search-engine-optimization/8770392>

**Keras: The Python Deep Learning Library**

<https://keras.io/>

**Kickstarter Datasets**

<https://webrobots.io/kickstarter-datasets/>

**Knowledge Discovery 2019**

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

**LAIR - Laboratory of Applied Informatics Research**

<http://lair.unc.edu/>

**List of User-Agents (Spiders, Robots, Crawler, Browser)**

<http://www.user-agents.org/index.shtml>

**Ludwig - Find Your Sentence**

<https://ludwig.guru/>

**Lurchr - I Keep Track of What's Shared by Your Team So You Can Stay Focused On Work**

<https://lurchr.com/>



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**MindMeld - Advanced Artificial Intelligence To Power the New Generation of Intelligent Conversational Interfaces**

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

**Minimal-Intelligence Agents for Bargaining Behaviors in Market-Based Environments by Dave Cliff and Janet Bruten**

<http://www.hpl.hp.com/techreports/97/HPL-97-91.html>

**MIT Media Lab: Software Agents**

<http://agents.media.mit.edu/index.html>

**Modelling and Mining of Network Information Systems**

<http://www.mathstat.dal.ca/~mominis/index.html>

**Motion AI – ChatBots and Artificial Intelligence Made Easy**

<http://motion.ai/>

**Mozenda Web Agent Builder - Web Data Extraction**

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

**MySpiders**

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.21.3013>

**NCapture - Capture Web Content**

[http://www.qsrinternational.com/products\\_nvivo\\_add-ons.aspx](http://www.qsrinternational.com/products_nvivo_add-ons.aspx)

**Networks and agents Network (NaN)**

<http://cnets.indiana.edu/groups/nan/>

**NewsBot - Related News At a Click Of a Button**

<https://getnewsbot.com/>

**Open Educational Resources (OER) Sources Search Engine**

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

**oSkope Visual Search**

<http://oskope.com/>

**Oxyus Open Source Search Engine**

<http://sourceforge.net/projects/oxyus/>



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**Postfire - AI Powered Social Media Assistant**

<https://postfire.co/>

**ProBot - Automate and Improve Your Workflow**

<https://probot.github.io/>

**Rank Dynamics - Make Your Search Dynamic**

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

**ResearchKit Framework - Medical Research Apps**

<https://github.com/ResearchKit>

**Robo Brain - Large Scale Computational System That Learns from Publicly Available Internet Resources**

<http://robobrain.me/>

**ReVerb – Open Information Extraction Software**

<http://reverb.cs.washington.edu/>

**SoftwareSciensio - AI Specific Events Chatbots**

<https://www.sciensio.com/eventbots>

**Scrapple - A Framework For Creating Web Scrapers and Web Crawlers**

<https://pypi.python.org/pypi/scrapple>

**Search Engine Robots**

<http://www.jafsoft.com/searchengines/webbots.html>

**Search Engine Watch News**

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

**Search Tools - Information Guides and News**

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

**SeerSuite - CiteSeerX Toolkit**

<http://sourceforge.net/projects/citeseerx/>

**Semantic Web**

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



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### **ShoppingBots 2019**

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

### **Siri - Your Virtual Personal Assistant**

<http://www.apple.com/ios/siri/>

### **Sisense Bot Framework**

<https://www.sisense.com/product/impact/bot/>

### **Smarter Bots 2019**

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

### **SocialBuzzBot 2019- The Business and Social Intelligence Search Engine for Information Discovery from Social Communities**

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

### **SocSciBot - Social Sciences Link Analysis Research**

<http://socscibot.wlv.ac.uk/>

### **Spidering Hacks**

<http://www.oreilly.com/catalog/spiderhks/>

### **STACKS - Social Media Tracker, Analyzer, & Collector Toolkit at Syracuse**

<https://github.com/bitslabsyr/stack>

### **Structure and Interpretation of Computer Programs - Video Lectures by Hal Abelson and Gerald Jay Sussman**

<http://groups.csail.mit.edu/mac/classes/6.001/abelson-sussman-lectures/>

### **SupportBots - Chatbots for MSP and IT Service Providers**

<http://www.supportbots.io/>

### **Supybot, A Superb Python IRC Bot**

[http://freecode.com/projects/supybot?branch\\_id=31808&release\\_id=181322](http://freecode.com/projects/supybot?branch_id=31808&release_id=181322)

### **Surf Canyon Search Engine**

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

### **Swirls - The Platform for Distributed Applications**

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



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**Swoogle - Semantic Bot**

<https://en.wikipedia.org/wiki/Swoogle>

**TextRunner Search - Searches Hundreds of Millions of Assertions Extracted from 500 Million High-Quality Web Pages**

<http://openie.cs.washington.edu/>

**The Essential Landscape of Enterprise AI Companies**

<https://www.topbots.com/essential-landscape-overview-enterprise-artificial-intelligence/>

**The Intelligent Software Agents Lab**

<http://www.cs.cmu.edu/~softagents/>

**The Lemur Toolkit - Language Modeling and Information Retrieval Research**

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

**The Search Engine Project (TSEP)**

<http://freecode.com/projects/tsep>

**The Simon Lavern Page**

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

**Transcriptic - Discovery Biology On Demand**

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

**UC Irvine Machine Learning Repository**

<https://archive.ics.uci.edu/ml/index.php>

**UMBC AgentWeb**

<http://agents.umbc.edu/>

**UMBC eBiquity**

<http://ebiquity.umbc.edu/>

**Universe - Measurement and Training for Artificial Intelligence**

<https://universe.openai.com/>

**Web Curator Tool (WCT)**

<http://webcurator.sourceforge.net/>



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**Web Data Extractors 2019**

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

**Web Intelligence Consortium**

<http://wi-consortium.org/>

**Web IR & IE**

<https://groups.yahoo.com/neo/groups/webir/info>

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

**WolframAlpha Computational Knowledge Engine - Trillions of Pieces of Curated Data and Millions of Lines of Algorithms**

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

**Xenioo - Professional Chatbot Platform for Your Business**

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

**Zanran - Search the Web for Data and Statistics**

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



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## **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:

Virtual Private Library™

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

Accessibility Resources

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

Agriculture Resources

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

AnswerSpot

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

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.info/>



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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 Directory

<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/>



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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/>



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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/>

Privacy Resources

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

Reference Resources

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

Research Resources

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

RestStress™

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

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

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

Theology Resources

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

Tutorial Resources

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



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World Wide Web Reference  
<http://www.WWWReference.info/>

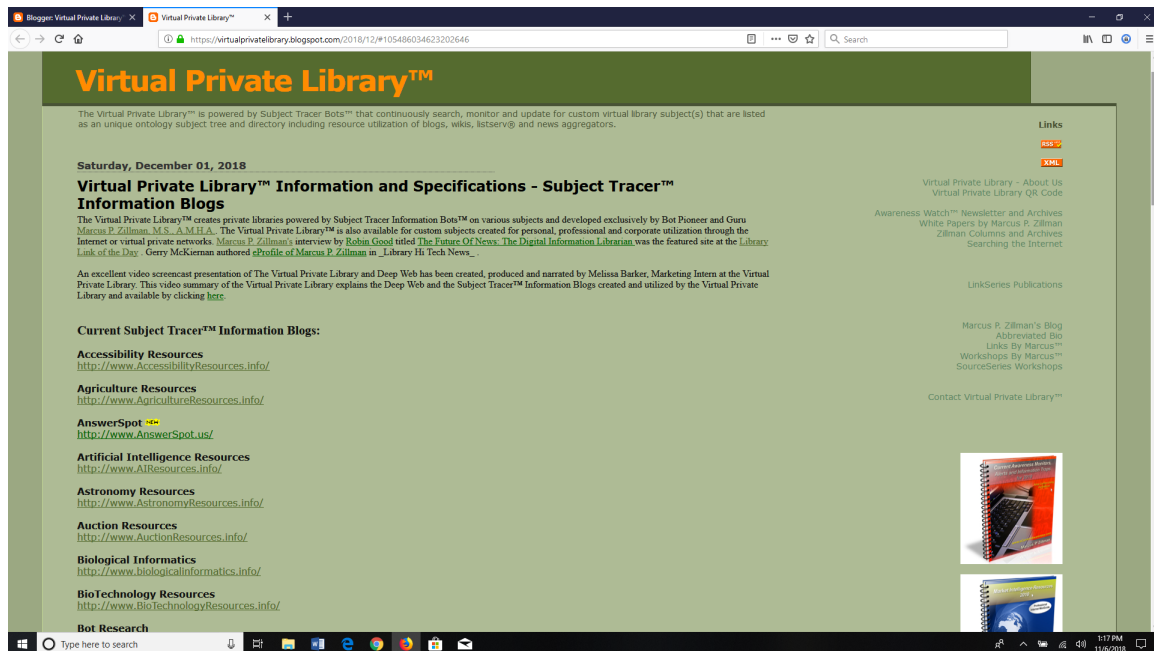


Figure 1: Virtual Private Library™

**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 (20,000+ Postings)  
<http://www.zillman.us/>

Marcus P. Zillman Abbreviated Bio  
<http://www.zillman.info/>



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White Papers by Marcus P. Zillman  
<http://www.WhitePapers.us/>

Internet MiniGuides™  
<http://www.InternetMiniguide.com/>

Awareness Watch™ Newsletter  
<http://www.AwarenessWatch.com/>

Marcus P. Zillman's Columns  
<http://www.ZillmanColumns.com>

LinkSeries Publications  
<http://www.LinkSeries.com/>

Links By Marcus™  
<http://www.LinksByMarcus.com/>

Workshops By Marcus™  
<http://www.WorkshopsByMarcus.com/>

SourceSeries Internet Research Workshops  
<http://www.SourceSeries.com/>

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

2018 Directory of Directories  
<http://www.2018DirectoryOfDirectories.com/>

Academic and Scholar Search Engines and Sources  
<http://www.ScholarSearchEngines.com/>

Bots, Blogs and News Aggregators 2019  
<http://www.BotsBlogs.com/>

Business Intelligence Online Resources 2018  
<http://www.BIOOnlineResources.info/>

Cloud Computing Resources Primer 2018  
<http://www.zillman.us/white-papers/grid-distributed-and-cloud-computing-resources-primer/>



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Current Awareness Discovery Tools on the Internet 2019

<http://www.zillman.us/white-papers/current-awareness-discovery-tools-on-the-internet/>

Deep Web Research and Discovery Resources 2019 Online White Paper

<http://DeepWeb.us/>

eMarketing MiniGuide 2018

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

eReference Library Link Toolkit 2018

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

Financial Sources for the Family Office 2019

<http://FinancialSourcesFamilyOffice.com/>

Finding Experts By Using the Internet 2019

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

Finding People Resources and Sites 2019

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

Healthcare Bots and Subject Directories 2018

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

Knowledge Discovery Resources 2019

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

New Economy Resources 2019

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

Online Research Browsers 2018

<http://www.zillman.us/white-papers/online-research-browsers/>

Online Research Tools

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

Online Social Networking 2018

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

Searching the Internet 2018 – The Primer - 2019 Guide to Searching the Internet

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



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Using the Internet As a Dynamic Resource Tool for Knowledge Discovery 2018  
<http://www.zillman.us/white-papers/using-the-internet-as-a-dynamic-resource-tool-for-knowledge-discovery/>

Web Data Extractors 2019  
<http://www.WebDataExtractors.com/>

Web Guide for the New Economy 2018  
<http://www.WebGuideNewEconomy.com/>

White Papers By Marcus P. Zillman, M.S., A.M.H.A.  
<http://www.WhitePapers.us/>

**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>

Visit this site to learn about Marcus P. Zillman's speaking engagements for your organization meetings and events. View and listen to his previous presentations as well as his weekly television shows.

**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 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.



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