Deep Web Research and Discovery Resources 2021

By

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Bots, Blogs and News Aggregators 2021 (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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Deep Web Research and Discovery Resources 2021 – July 2021 Edition
[Updated July 1, 2021]
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This Deep Web Research and Discovery Resources 2021 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)

4 Ways To Protect Your Data From the Dark Web by Drew Adamek

5 Dark Web Browsers You Can Use To Remain Anonymous Online
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http://www.BotResearch.info/

Brave – Web Browser including “Private Tabs with Tor”
https://brave.com/

BrightPlanet – Deep Web Intelligence
http://www.brightplanet.com/

Catalog of U.S. Government Publications (CGP)
http://catalog.gpo.gov/

Cazoodle - Search, Integrate, and Organize -- The Real World
http://www.cazoodle.com/

Censys Search Engine for Devices and Networks
https://censys.io/

CloserLook Search Engine
http://www.closerlooksearch.com/

Creative Commons RDF-Enhanced Search
http://search.creativecommons.org/

Cyber Cemetery
http://govinfo.library.unt.edu/

CyberGhost - One of the World's Most Trusted and Secure Virtual Private Networks
http://www.cyberghostvpn.com/

Dark Reading
https://www.darkreading.com/

Dark Social
https://explodingtopics.com/topic/dark-social

Dark Web Academy - Dark Web Curriculum
https://www.youtube.com/channel/UCJ31aJo8U-ZaRnZ4Y27so_Q
Dark Web Intelligence and Monitoring Service – Perfecta

DarkWeb News – Deep Web
https://darkwebnews.com/category/deep-web/

DarkWeb News - The Ultimate Dark Web Resource
https://darkwebnews.com/

Data Mining Resources 2021
http://www.DataMiningResources.info/

DataPortals.org
http://www.DataPortals.org/

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 Diver – Dark Web Search and Domain Monitoring
https://piiguard360.com/

Deep.Dot.Web

Deep Search 9 – Managed Intelligence Ahead of the Competition
https://www.deepsearchnine.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
FireEye – Digital Threat Monitoring  

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  

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

IPFS Distributed Web  
https://ipfs.io/

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/

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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/webbib.html

Linked Data - Connect Distributed Data Across the Web
http://linkeddata.org/

LinkingOpenData - W3C SWEO Community Project
http://www.w3.org/wiki/SwoelIG/TaskForces/CommunityProjects/LinkingOpenData

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List of Tor Hidden Services from the Wikipedia
https://en.wikipedia.org/wiki/List_of_Tor_hidden_services

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http://www.magportal.com/

Mappa.Mundi Magazine
http://mappa.mundi.net/

Mason OER Metafinder
Mednar - Innovative Medical Search
http://mednar.com/

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http://www.ZillmanColumns.com/

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

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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/

Omnity Insight Engine - Everything Connected
https://www.omnity.io/

OneLook Dictionary Search
http://www.onelook.com/

Onion Browser - An Open-Source Privacy Enhancing Web Browser for iOS
https://mike.tig.as/onionbrowser/

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://aws.amazon.com/public-datasets/
https://data.world/
http://data.worldbank.org/
http://www.OpenDataSets.info/

Open Educational Resources (OER) Sources 2021 and Search Engine
http://www.OERSources.com/
http://www.OERSearchEngine.com/

OpenIndex - Creating a Public Internet Index
http://www.openindex.org/

Open Knowledge Foundation – 590 Data Portals Listed
http://www.DataPortals.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 2021
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/

Recommended Gateway Sites for the Deep Web
http://people.hws.edu/hunter/deepwebgate03.htm

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

http://www.science.gov/

ScienceResearch.com - Deep Web Search Engine
http://www.scientersearch.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

SIMILE Widgets - Free, Open-Source Data Visualization Web Widgets and More
http://simile-widgets.org/

Social Buzz Bot 2021 (PDF download)
http://www.SocialBuzzBot.com/

Statistics Resources and Big Data 2021
http://www.StatisticsResources.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

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

The Deep Web: Shutdowns, New Sites, New Tools by Vincenzo Ciancaglini

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/

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/disl/THOR/

Top 10 Best Deep Web Search Engines To Explore the 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

UNdata - Data Access System To UN Databases
http://data.un.org/

UNESCO Information Services - Databases

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

Web Data Extractors 2021
http://www.WebDataExtractors.com/

WebFountain™ - Analytical engine unstructured data
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

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
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/

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Jena – A Semantic Web Framework for Java
http://jena.sourceforge.net/

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http://www.jbiomedsem.com/

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http://www.journals.elsevier.com/journal-of-web-semantics
Journal of Web Semantics: Preprint Server
http://www.websemanticsjournal.org/

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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

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/

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


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

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https://terbiumlabs.com/

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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

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
http://www.WWWReference.info/
XML.com: Semantic Web

XML.org
http://www.xml.org/

Yahoo Groups - SemanticWeb
http://groups.yahoo.com/group/semanticweb/

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1st Spot
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

Artificial Intelligence Resources 2021
http://www.AIResources.info/

artoo.js - The Client-Side Scraping Companion
http://medialab.github.io/artoo/

BEN Portal: BioSciEdNet
http://www.biosciednet.org/portal/

BotAnalytics - Analytics for Bots
http://botanalytics.co/

Bot and Intelligent Agent Research Resources 2021
http://www.BotResearch.info/

Botometer
https://botometer.iuni.iu.edu/

Bots, Blogs and News Aggregators 2021
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 2021
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

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 2021
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 2021
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/

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

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

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/

Gupshup - Bot Building Platform
https://www.gupshup.io/

HAIKU - Open Source Operating System That Specifically Targets Personal Computing
https://www.haiku-os.org/

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http://www.HealthcareBots.info/

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

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

Indiegogo Datasets
https://webrobots.io/indiegogo-dataset/

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/

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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 2021
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/

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

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

NCapture - Capture Web Content

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 2021
http://www.OERSearchEngine.com/

oSkope Visual Search
http://oskope.com/

Oxyus Open Source Search Engine
http://sourceforge.net/projects/oxyus/

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/

ShoppingBots 2021
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 2021
http://www.SmarterBots.com/

SocialBuzzBot 2021 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/bitlabsyr/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

Surf Canyon Search Engine
http://www.surfcanyon.com/

Swirlds - The Platform for Distributed Applications
http://www.swirlds.com/

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

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

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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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/

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.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.info/

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/

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/

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/

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 (26,000+ Postings)
http://www.zillman.us/

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

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.:

2021 Directory of Directories

2021 Guide to Finding Experts by Using the Internet
http://www.FindingExperts.info/

2021 Guide to Finding People Resources and Sites
http://www.FindingPeople.info/

2021 Guide to Internet Privacy Resources and Tools
http://www.2021InternetPrivacy.com/

2021 Guide to Searching the Internet
http://www.SearchingTheInternet.info/

2021 New Economy Resources
http://www.2021NewEconomy.com/
Academic and Scholar Search Engines and Sources 2021
http://www.ScholarSearchEngines.com/

Bots, Blogs and News Aggregators 2021
http://www.BotsBlogs.com/

Business Intelligence Online Resources 2021
http://www.BIOnlineResources.com/

Cloud Computing Resources Primer 2021
http://www.zillman.us/white-papers/grid-distributed-and-cloud-computing-resources-primer/

Current Awareness Discovery Tools on the Internet 2021

Deep Web Research and Discovery Resources 2021 Online White Paper
http://DeepWeb.us/

eMarketing MiniGuide 2021
http://www.eMarketingMiniGuide.com/

eReference Library Link Toolkit 2021
http://www.eReferenceLibrary.com/

Financial Sources for the Family Office 2021
http://FinancialSourcesFamilyOffice.com/

Finding Experts By Using the Internet 2021
http://www.FindingExperts.info/

Finding People Resources and Sites 2021
http://www.FindingPeople.info/

Healthcare Online Resources 2021
http://www.HealthcareResources.info/

Knowledge Discovery Resources 2021
http://www.KDResources.info/

New Economy Resources 2021
http://www.NewEconomyResources.com/
Online Research Browsers and Data Visualization Tools 2021
http://www.zillman.us/white-papers/online-research-browsers/

Online Research Tools
http://www.OnlineResearchTools.info/

Online Social Networking 2021
http://www.OnlineSocialNetworking.info/

Using the Internet As a Dynamic Resource Tool for Knowledge Discovery 2021

Web Data Extractors 2021
http://www.WebDataExtractors.com/

Web Guide for the New Economy 2021

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.
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.