

Awareness Watch™ Newsletter

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

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

V19N5

May 2021

Welcome to the V19N5 May 2021 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 COVID-19 New Economy and New Normal world!!

Awareness Watch™ Featured Report

This month’s featured report covers **2021 Web Data Extractors** and is a comprehensive listing of world wide web and Internet web data extractors resources and tools including sources for new economy and new normal web data extractors directories, subject guides and index resources and sites on the Internet available for the 2021 year. The below list is taken partially from my white paper titled **Web Data Extractors 2021** and is constantly updated with Subject Tracer™ bots at the following URL:

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

These resources and sources will help you to discover the many new pathways available through the Internet to find the latest new and existing world wide web and Internet competent web data extractors resources, sources, tools and sites. 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 including the deep web will be your pathfinder to all the new web data extractors resources, sources, tools and alerts!!



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2021 Web Data Extractors:

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

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

Agenty – Hosted Web Scraping Tool

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

Anthracite

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

Apify – Web Scraping Platform for Coders

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

Aristo - Answer Questions with a Knowledgeable Machine

<http://allenai.org/aristo/>

artoo.js - The Client-Side Scraping Companion

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

AutoMate - Automate Data Extraction

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

Automated RSS Scraper Scripts

<http://www.djeaux.com/rss/>

Automated Information Solutions

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

Automatic Information Extraction From Semi-Structured Web Pages By Pattern Discovery

<http://portal.acm.org/citation.cfm?id=640423&dl=ACM&coll=portal>

Beautiful Soup

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

Beautiful Soup - HTML/XML Parser for Quick Turnaround Screen Scraping and Web Data Extraction

<http://www.crummy.com/software/BeautifulSoup/>

bli solutions Weather Predictive Analytics

<http://www.bli solutions.com/>



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Bot Research 2021

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

BYU Data Extraction Research Group

<http://www.deg.byu.edu/>

Captiva Software: OpenText Captiva – Capture and Transform Content

<http://www.emc.com/enterprise-content-management/captiva/captiva.htm>

Client-Side Deep Web Data Extraction

<http://www.tic.udc.es/~mad/publications/ceceast2004.pdf>

CloudScape – Extract, Enrich and Connect

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

Cogitum Co-Citer

<http://www.cogitum.com/co-tracker-text/more.shtml>

Common Crawl

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

Connotate – Web Data Extraction and Monitoring

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

ContextMiner - Tools to Collect Data, Metadata and Contextual Information

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

cQuery - Content Query Engine

<http://cquery.com/>

CrawlMonster

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

Crawly

<http://crawly.diffbot.com/>

Create a Crawler - Extract Data From an Entire Website

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

cURL groks URLs - Command Line Tool for Transferring Data

<http://curl.haxx.se/>

Data Excavator – Data Scraper for E-commerce

<https://data-excavator.com/>



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Data Extraction Services

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

DataHen – Advanced Web Scraping and Data Extraction Services

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

Data Mining Resources 2021

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

Data Miner – Extract Data From any Website in Seconds

<https://data-miner.io/>

Dataminr - Real-time Information Discovery

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

Data Scraper – Easy Web Scraping with Google Chrome

<https://chrome.google.com/webstore/detail/data-scraper-easy-web-scr/nndknejnldbdbepjfgmncbgbgmopgden?hl=en-US>

DataSift - Powerful Social Data Platform

<http://datasift.com/>

Data Toolbar – Web Data Extraction Software Made Simple

<http://datatoolbar.com/>

DataWatch Monarch – Self-Service Data Preparation

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

DataWrangler - Data Cleaning and Transformation Tool

<http://vis.stanford.edu/wrangler/>

Deep Web Research 2021

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

DEiXTo – Powerful Web Data Extraction Tool Based on W3C DOM

<http://deixto.com/>

dexi.io – Web Data Processing for Professionals – Extract, Enrich and Connect

<https://dexi.io/>

DiffBot AI – Web Data Extraction Using Artificial Intelligence

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



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Diggernaut - Data Scraping - Turn Website Content Into Datasets
<https://www.diggernaut.com/>

Digital Footprints - Collect Facebook Data
<http://digitalfootprints.dk/>

DiscoverText - Import, Sort, Distribute and Analyze Electronic Content from eMail, Document Repositories, and Social Media
<http://discovertext.com/>

Easy PDF Cloud
<https://www.easypdfcloud.com/>

Easy Web Extract – Best Tool for Web Scraping
<http://webextract.net/>

eGrabber - Data Capture Tools
<http://www.egrabber.com/>

Facepager - Fetching Public Data From Facebook
<https://github.com/strohne/Facepager>

Ficstar Software - Web Data Extraction
<http://www.ficstar.com/>

File Information Tool Set (FITS)
<https://projects.iq.harvard.edu/fits>

FMiner – Web Scraping Software
<http://www.fminer.com/>

Fresh WebSuction
<http://www.freshwebmaster.com/>

Get Automated Data Extraction
<https://info.helpsystems.com/am-data-extraction-and-movement/>

GetData.io - Get Valuable Data from the Web in 3 Steps
<https://getdata.io/>

Grepsr – Web Scraping Made Simple, Fast and Manageable
<https://www.grepsr.com/>



Harkive – Data Collection – Multiple Sources/Single Database
<http://harkive.org/datcolzap/>

Helium Scraper
<http://www.heliumscraper.com/>

How to Scrape Data from a Website Using Python
<https://www.codementor.io/oluwagbengajoloko/how-to-scrape-data-from-a-website-using-python-n3fmtc63q>

How To Use A Data-Scaping Tool to Extract Data From Webpages
<https://www.maketecheasier.com/use-data-scraping-tool-extract-data-from-web-pages>

Huginn - Your Agents Are Standing By
<https://github.com/cantino/huginn>

Hunter - Connect With Anyone
<https://hunter.io/>

HYPHE - Web Corpus Curation Tool Featuring A Research-Driven Web Crawler
<http://hyphe.medialab.sciences-po.fr/>

iCyte - Your Research Anywhere
<http://www.icyte.com/>

iMacros – Data Extraction
<http://imacros.net/overview>

Imagination Engines
<http://www.Imagination-Engines.com/>

Import.io - Turn the Web Into Data With Extractors, Crawlers and Connectors
<https://import.io/>

IndieData – Get a Scraped Database Instantly
<https://indiedata.app/>

InfoExtractor - Extracts Relevant Information from Blogs, YouTube and Twitter
<http://www.infoextractor.org/>

Information Retrieval (IR) and Information Extraction (IE) on the Web
<http://www.webir.org/>



Instaloader – Download Pictures or Videos and Metadata from Instagram
<https://instaloader.github.io/>

Instamancer – Scrape Instagram's API with Puppeteer
<https://adamsm.com/instamancer/>

Introduction to Information Retrieval
<http://www-nlp.stanford.edu/IR-book/>

Introduction to Web Scraping Using Python
<https://github.com/qut-dmrc/web-scraping-intro-workshop>

Ion – On-demand IP Rotation for Faster Web Scraping
<https://www.anonymizer.com/>

iRobotSoft – Visual Web Scraping and Web Automation
<http://irobotsoft.com/>

iWeb Scraping Services
<http://www.iwebscraping.com/>

Jaspersoft® ETL - The Open Source Data Integration Platform
<https://community.jaspersoft.com/project/jaspersoft-etl>

JetOctopus – Crawler for Big Web Sites
<https://jetoctopus.com/>

Junar - Discovering Data
<http://www.junar.com/>

Karma - Data Integration Tool
<http://www.isi.edu/integration/karma/>

Knowledge Discovery Resources 2021
<http://www.KnowledgeDiscovery.info/>

Knowlesys® - Web Data Extraction, Web Grabber and Screen Scraper
<http://www.knowlesys.com/index.htm>

Liberty Metrics – Web Scraping Services
<http://libertymetrics.com/>

LingPipe – Information Extraction and Data Mining Tools
<http://alias-i.com/lingpipe/>



Listly - Fully Automated Web Scraping Service

<http://listly.io/>

LoginWorks – On Demand Webpage Scraping Services

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

Luminati – Get Reliable and Structured Data From Any Website

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

Marquee – Professional Web Scraping Services

<https://marqueedata.com/>

Metadata Extraction Tool

<http://meta-extractor.sourceforge.net/>

Minerazzi – Search and Mining Ecosystem

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

Mozenda – Comprehensive Web Data Gathering

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

Netlytic - Making Sense of Online Conversations

<https://netlytic.org/home/>

Newprosoft – Web Data Extraction Software

<http://newprosoft.com/>

Octo – Expose Data From Any Database As Web Service

https://octoproject.github.io/octo-cli/?utm_campaign=Data_Elixir&utm_source=Data_Elixir_303

Octoparse – Automated Web Scraping Software

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

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/>



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OutWit Hub - Harvest the Web With Your Own Web Collection Engine
<http://www.outwit.com/>

ParseHub – Web Crawling Using Machine Learning
<http://www.ParseHub.com/>

Pervasive Data Management and Integration Products
<http://www.pervasive.com/>

Priceonomics - Crawl Data From the Web
<http://priceonomics.com/>

Proxycrawl - Stay Anonymous While Crawling the Web
<https://proxycrawl.com/>

QL2 Software - Unstructured Data Management and Web Mining Software
<http://www.ql2.com/>

Quick Code
<https://quickcode.io/>

re3data.org - 2,000 Data Repositories
<https://www.re3data.org/>

REBOL Technologies
<http://www.rebol.com/>

ReVerb - Open Information Extraction Software
<http://reverb.cs.washington.edu/>

ScrapeForge
<http://freecode.com/projects/scrapeforge>

ScrapeHero
<https://www.scrapehero.com/>

Scraper
<http://freecode.com/projects/scraper>

Scraper API
<https://www.scraperapi.com/>

ScrapeStorm – AI-Powered Visual Web Data Extractor
<https://www.scrapestorm.com>



ScrapingBot – API You Need for Efficient Scraping

<https://www.scraping-bot.io/>

ScrapingDog – Handles Millions of Proxies, Browsers and CAPTCHAs

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

ScrapingHub – Cloud Based Data Extraction Tool

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

Scraping Robot – Quality Web Scraping That You Can Count On

<https://scrapingrobot.com/>

Scraping Solutions – When the Solution You Seek Seems Impossible

<https://www.scrapingsolutions.com.au/>

Scrapy – Open Source Web Scraping Framework for Python

<http://scrapy.org/>

Screen-Scraper

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

Screen-Scraper – Extracts Information From Web Sites

<http://www.Screen-Scraper.com/>

Screenscraping the Senate by Paul Ford

<http://www.xml.com/pub/a/2004/09/01/hack-congress.html>

Search and Replace with TextPipe Pattern Matching

<http://www.datamystic.com/textpipe.html>

Semantic Scholar - Free Scientific Literature Search and Discovery

<http://allenai.org/semantic-scholar/>

Sensible Code

<http://sensiblecode.io/>

Sequentum – Unlock the World’s Largest Data Source

<https://sequentum.com/>

Simple Scraper – Extract Data From Any Website in Seconds

<https://simplescraper.io/>

Social Media Data Collection Tools

<http://socialmediadata.wikidot.com/>



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Software for Web Scraping

<http://scraping.pro/software-for-web-scraping/>

Spinn3r - Indexing the Blogosphere

<http://docs.spinn3r.com/#overview>

SPSS Modeler

<http://developer.ibm.com/predictiveanalytics>

Squirro - Find, Remember, Organize and Share Important Information

<https://squirro.com/>

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

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

TadaWeb - Clone and Amplify Human Intelligence for Web Data Collection and Analysis

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

Teracrawler – Cloud Based Web Crawling Software

<https://teracrawler.io/>

TextConverter 4

<https://www.simx.com/simx/TC-Overview.stp?>

TextRazor - Text Analysis Infrastructure

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

Topicgrazer - Graze On Web Pages and Documents

<http://www.topicscape.com/Topicgrazer/help.php>

Trove - Privacy-Focused Bookmark Organizer

<https://trovenow.com/>

UiPath – Web Data Extraction

<https://www.uipath.com/guides/web-data-extraction>

Unit Miner - Web Data Extraction Software

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

VietSpider

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



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Visual Web Ripper – Data Extraction Software
<http://www.VisualWebRipper.com/>

Visual Web Task
<http://www.lencom.com/VisualWTSite.html>

Voogy – Anonymous Website Visitor Tracker
<https://voogy.com/>

W3C Publishes Data Extraction Language (DEL) as W3C Note
<http://xml.coverpages.org/ni2001-11-06-a.html>

Web Content Extractor
<http://www.newprosoft.com/>

Web Data Extraction
<https://www.wintask.com/web-data-extraction-feature/>

Web Data Extraction – Convert Websites Into Structured, Usable Data
<https://www.import.io/product/extract/>

Web Data Extraction Services
<https://webdataextractionservices.com/>

Web Data Extraction Software Data Toolbar
<https://webdataextractionsoftwaredatatoolbar.en.softonic.com/>

Web Data Extractor
<http://www.rafasoft.com/>

Web Data Extractor
<http://www.webextractor.com/>

Web Data Extractor
<http://fivesmallq.github.io/web-data-extractor>

Web Data Extractor
<http://www.lantechsoft.com/web-data-extractor.html>

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

Web Data Guru – Web Data Extraction and Scraping Services
<http://www.webdataguru.com/>



Web-Harvest – Open Source Web Data Extraction Tool
<http://web-harvest.sourceforge.net/index.php>

Webhose.io – Web Data For Your Business
<http://www.webhose.io/>

Web Robots – Web Scraping and Crawling
<https://webrobots.io/>

Web Scraper
<http://www.webscraper.io/>

Web Scraper Software Market Emerging Trends and Global Demands 2019 – 2024
<https://dailyresearchstack.com/2019/11/23/web-scraper-software-market-emerging-trends-and-global-demands-2019-to-2024/>

Web Scraping – Wikipedia
https://en.wikipedia.org/wiki/Web_scraping

Website Data Extractor – Time to Rethink Web Scraping
<http://www.kofax.com/>

Website Downloader
<https://websitedownloader.io/>

Website Extractor – Offline Browser
<http://www.internet-soft.com/extractor.htm>

WebSunDew – Advanced Web Scraping Tool
<http://www.websundew.com/>

Wikimedia Public Data Dumps
http://meta.wikimedia.org/wiki/Data_dumps

WinAutomation
<http://www.winautomation.com/>

XRay Web Scraping Tool
<http://freecode.com/projects/xrayguibasedwebscrapingtool>

YaCy Web page Indexer
<http://freecode.com/projects/yacy>



Zenscrape – An Elegant Web API for Ethical Data Extraction at Scale
<https://zenscrape.com/>

Awareness Watch™ Spotters

Academic and Scholar Search Engines and Sources 2021

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

Internet Annotated Link Dataset Compilation titled “Academic and Scholar Search Engines and Sources 2021” is now a 82 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 (972KB) at the above link from the [Virtual Private Library™](#) and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#) [Completely Updated with all links validated and new URLs added: April 1, 2021]. Other white papers are available by clicking [here](#).

New Normal Start Up Resources 2021

<http://www.NewNormalStartUpResources.com/> [April 1, 2021]

<https://www.llrx.com/2021/02/new-normal-start-up-resources-2021/>

As we collectively work toward establishing a post-coronavirus future, there is a need to go beyond identifying operational goals, objectives, products and services tied to work in physical locations. For both existing organizations and startups, effectively pivoting to a future that includes routine remote work and online collaboration that drives all facets of management, development, marketing, and communications. This guide by **Marcus P. Zillman** identifies a wide range of actionable resources that can help empower new companies and established public and private sector organizations as they navigate challenges and leverage new opportunities. The PDF is also available by clicking [here](#).

Deep Web Research and Discovery Resources 2021

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

I

I have just updated my white paper link dataset compilation and now titled **Deep Web Research and Discovery Resources 2021** and it is now a 79 page 901KB PDF document 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 8,000,000+ times! **April 1, 2021**

Open Educational Resources (OER) Sources 2021

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

“Open Educational Resources (OER) 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



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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 2021, 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™. Complete Update Including All Links Validated on **April 1, 2021**; [53 pages, 907KB PDF]

Information Quality Resources 2021 White Paper Link Dataset Compilation

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

The above is the associated white paper link dataset compilation of the **Information Quality Resources 2021** Subject Tracer™ Information Blog by [Marcus P. Zillman, M.S., A.M.H.A.](#). It is a freely available 22 page .pdf document (728KB) listing the latest and greatest online resources and sites for quality information resources! **Completed updated including all link validation and new links added on January 9, 2021.** Other 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 upcoming elections and the [2020 New Economy](#) Visit my just updated for 2021 54 Subject Tracers™ by clicking [here](#).

2021 Directory of Directories

http://whitepapers.VirtualPrivateLibrary.net/2021_Directory_of_Directories.pdf
<http://www.2021DirectoryOfDirectories.com/>

The above is a white paper link dataset compilation of the [2021 Directory of Directories](#) Subject Tracer™ Information Blog by Internet Expert [Marcus P. Zillman, M.S., A.M.H.A.](#) This **2021 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 33 page .pdf document 759KB. [Updated on **January 20, 2021**] Other white papers are available by clicking [here](#).

Financial Sources 2021 Subject Tracer™ Information Blog White Paper Link Dataset Compilation

<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 2021 Subject Tracer™ Information Blog by [Marcus P. Zillman, M.S., A.M.H.A.](#) It is a 37 page .pdf document 777KB. [Updated **January 21, 2021**] Other white papers are available by clicking [here](#).



eCommerce Resources On the Internet 2021

<https://www.zillman.us/subject-tracers/ecommerce-resources/>
<http://www.eCommerceResources.info/>

The above is the associated white paper link dataset compilation of the **eCommerce Resources On the Internet 2021** Subject Tracer™ Information Blog by [Marcus P. Zillman, M.S., A.M.H.A.](#). It is a 31 page .pdf document (759KB) freely available from the above URL. [Updated with all links validated and new links added on **January 23, 2021**]. Other white papers are available by clicking [here](#).

New Economy Resources 2021

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

New Economy Resources 2021 represents the latest world wide web resources for discovering new knowledge and understanding the latest happenings with regards to the New Economy. The world is rapidly changing as transparency, big data and the ability to access data from new and now accessible databases becomes a reality! Understanding the required new economy analytics, resources and alerts will give you the necessary tools to maintain your current position, improve your position and or discover the new knowledge required to be the leader in your profession. It was Officially Released with All Links Validated and New Links added on November 1, 2020 and Updated January 22, 2021. [45 pages 922KB .pdf]

Healthcare Online Resources 2021

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

Healthcare Online Resources 2021 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 **January 27, 2021** PDF 36 pages 959KB] Also available directly from: <http://HealthPathFinders.com/>

Podcast – The Grassy Knoll #8 Interview with Marcus P. Zillman, M.S., A.M.H.A.

<https://www.zillman.us/podcast-the-grassy-knoll-8-interview-with-marcus-p-zillman/>

Marcus P. Zillman, M.S., A.M.H.A is an Internet Pioneer. He is an internet expert, keynote speaker, and corporate consultant around the topic of Internet bots, Search Engines, and Artificial Intelligence. He brings more than thirty years of experience in operating online databases and has authored over 100 white papers, Internet MiniGuides, and eBooks about the Internet and the exciting resources that are available to both the “newbie” as well as the “seasoned” veteran. Marcus is currently the Executive Director of the Virtual Private Library the creators of over 54 Subject Tracer Information Blogs.

Tutorial Resources on the Internet 2021 White Paper Link Dataset Compilation

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

The above is the associated white paper link compilation of the Tutorial Resources on the Internet 2021 Subject Tracer™ Information Blog by Marcus P. Zillman, M.S., A.M.H.A.



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It is now a 28 page .pdf document 725KB. [Updated on January 5, 2021 including all links validated and new links added.]. Comprehensive listing of online tutorials, college courses and related tutorial sites and information. Other white papers are available by clicking [here](#).

May 2021 Zillman Column: 2021 Guide to Journalism Resources

http://columns.virtualprivatelibrary.net/2021_Journalism_Resources_May21_column.pdf

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

The May 2021 Zillman Column features **2021 Guide to Journalism Resources** by Marcus P. Zillman, M.S., A.M.H.A.; Executive Director of the Virtual Private Library. This is a comprehensive listing of journalism resources, sites and tools on the Internet and available in the new “zoom” education/learning age. These competent journalism resources and tools will be your search engine for your research. The below list of sources is taken from his Subject Tracer™ Information Blog titled Journalism Resources 2021 and is constantly updated with Subject Tracer™ bots at the following URL: <http://www.JournalismResources.info/>. These resources and sources will help you to discover the many pathways available to you through the Internet to find the latest journalism resources, sources and sites. This is another MUST have column to discover the latest 2021 competent online journalism resources and tools to give you the information you need in today’s ever changing and fast paced [2021 New Economy](#) business and academic research world and the [New Normal](#).

Grid, Distributed and Cloud Computing Resources 2021

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

The above is my white paper link compilation of [Grid, Distributed and Cloud Computing Resources 2021](#) Subject Tracer™ by [Marcus P. Zillman, M.S., A.M.H.A.](#) It is now a 26 page .pdf document 722KB. [Updated including all links validated and new links added on April 20, 2021] Other white papers are available by clicking [here](#).

Games Resources 2021 White Paper Link Dataset Compilation

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

I have just updated the associated white paper link dataset compilation of the Games Resources 2021 Subject Tracer™ Information Blog by Marcus P. Zillman, M.S., A.M.H.A. It is a 20 page .pdf document 695KB. [Completely updated on **December 12, 2020**]. Other white papers are available by clicking [here](#).

Grey Literature: Advocating for Diverse Voices, Increased Use, Improved Access, and Preservation

<https://crln.acrl.org/index.php/crlnews/article/view/24807>

Grey literature (GL), or works that are more ephemeral in nature and not produced by traditional publishers, plays an important role in research and teaching. Some disciplines, such as economics and forestry, rely on and value GL for how it allows rapid dissemination of information. Additionally, as systematic reviews become increasingly popular in a wider variety of disciplines, the focus on GL has intensified due to



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guidelines calling for its inclusion. These factors led the authors to further explore the role of GL across disciplines of our institution. We examined the current levels of GL in databases and institutional repositories, and surveyed and interviewed faculty on their relationship with GL. This research found a lack of diverse voices in GL holdings and issues in preservation and access. Libraries are well situated to address these issues and in this article we argue that they should: increase the collection of diverse voices in GL, preserve digital born materials, and provide access to GL. Finally, we offer several ways that libraries can accomplish this goal.

eReference Library Link Dataset Toolkit 2021

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

The eReference Library Link Dataset Toolkit 2021 has been completely updated, reviewed with ALL links verified and is now a 62 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 from the Internet. The eReference Library Link Toolkit 2021 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 white papers by Marcus P. Zillman are available by clicking [here](#). [Completely updated including all links validated and new links added December 17, 2020 .pdf 62 pages 898KB]

Awarenesswatch™ Paper Review

How NonProfits Use Facebook to Craft Infrastructure by *Libby Hemphill, A.J. Million and Ingrid Erickson*

<https://firstmonday.org/ojs/index.php/fm/article/view/10265>

Abstract:

We present findings from interviews with 23 individuals affiliated with non-profit organizations (NPOs) to understand how they deploy information and communication technologies (ICTs) in their civic engagement efforts. Existing research about NPO ICT use is often critical, but we did not find evidence that NPOs fail to use tools effectively. Rather, we detail how NPOs assemble various ICTs to create infrastructures that align with their values. Overall, we find that existing theories about technology choice (e.g., task-technology fit, uses and gratifications) do not explain the assemblages NPOs describe. We argue that the infrastructures they fashion can be explained through the lens of moral economies rather than utility. Together, the rhetorics of infrastructure and moral



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economies capture the motivations and constraints our participants expressed and challenge how prevailing theories of ICT use describe the non-profit landscape.

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/>



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Business Intelligence Resources

<http://www.BIOnlineResources.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 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/>

Military Resources

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



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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/>



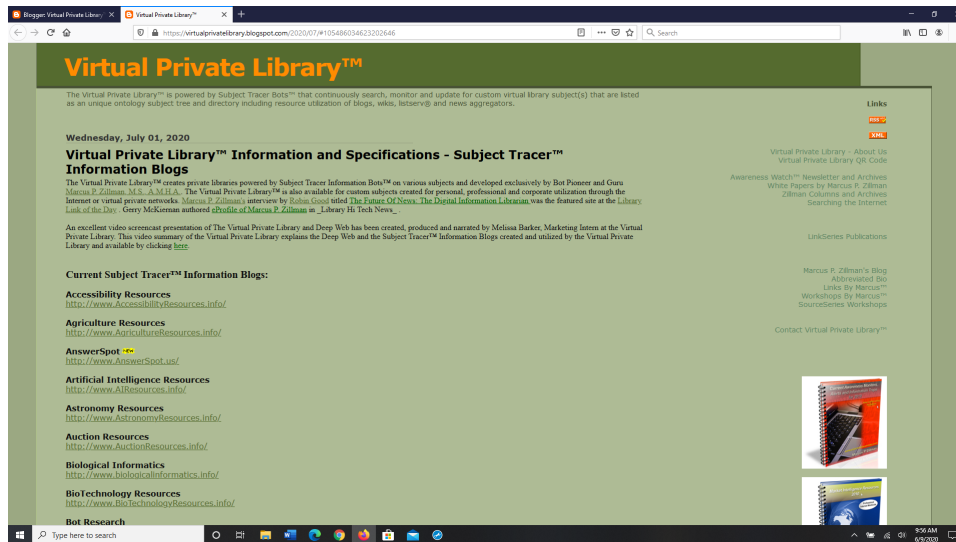


Figure 1: Virtual Private Library™

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/>



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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/>

Watch Marcus™
<http://www.WatchMarcus.com/>

listen to marcus™
<http://www.ListenToMarcus.com>

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

2021 Directory of Directories
<http://www.2021DirectoryOfDirectories.com/>

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

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

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/>

Finding Experts By Using the Internet 2021

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

Finding People Resources and Sites 2021

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

Healthcare Bots and Subject Directories 2021

<http://www.HealthcareBots.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/>



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Online Research Tools 2021

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

Online Social Networking 2021

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

Searching the Internet 2021

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

Subject Tracers 2021

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

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

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

Web Data Extractors 2021

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

Web Guide for the New Economy 2021

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

White Papers 2021 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!



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Current Awareness Monitors, Alerts and Information Traps

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

<http://www.CurrentAwarenessTools.com>

Marcus P. Zillman's latest reports Current Awareness Monitors, Alerts and Information Traps and Current Awareness Tools 2020 are now available. One for purchase and one freely available online and immediate download. These reports are comprehensive listings 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



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Resources, e) Knowledge Discovery/Retrieval and the World Wide Web Resources, and f) 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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