Awareness Watch™ Newsletter

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

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Welcome to the V20N6 June 2022 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 2022 world!!

Awareness Watch™ Featured Report

This month's featured report covers **Online Research Browsers and Data Visualization Tools 2022** and is a comprehensive listing of internet research browsers and data visualization resources and tools including the new economy and new normal statistics and big data directories, subject guides and index resources and sites on the Internet available for the 2022 zoom year. The below list is taken partially from my white paper titled **Online Research Browsers and Data Visualization Tools 2022** and is constantly updated with Subject Tracer™ bots at the following URL:

https://www.zillman.us/white-papers/online-research-browsers/

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 research browsers and data visualization 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 will be your pathfinder to all the new and existing competent research browser and data visualization tools and resources.

Online Research Browsers and Data Visualization Tools 2022

An Internet MiniGuide Annotated Link Compilation

By

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This Internet MiniGuide Annotated Link Compilation is dedicated to the latest and most competent sources for **Online Research Browsers and Data Visualization Tools 2022**. With the constant addition of new and pertinent information coming online every second it is very easy to go into information overload. The true key is to be able to identify the important information and how that information relates to other information resources through information visualization that will aid you in the creation of new intelligence and research data using online research browsers and tools. The following research browser and data Visualization tool sites offer excellent information on research and analysis to help you accomplish that research goal!

22 Best Data Visualization Tools in 2022 (Free/Paid)
https://www.guru99.com/best-data-visualization-tools.html
Data visualization tools are cloud-based applications that help you to represent raw data in easy to understand graphical formats. You can use these programs to produce customizable bar charts, pie charts, column charts, and more. This is a handpicked list of Top Data Visualization Tools with their popular features and website links. The list contains both open-source(free) and commercial(paid) software.

Amazon Browser
http://www.touchgraph.com/amazon
Amazon Browser powered by TouchGraph is a tool for browsing the mass of literature, music and film contained in the Amazon database, by exploring links between related items. This will launch Amazon Browser in a new window, containing your search terms in the central node, with links to the first 10 search results in the surrounding nodes. Double-clicking on one of the surrounding nodes will expand the graph to include the first 10 related articles. Clicking on the 'inf' icon above each node will display a hint window containing the summary, a link to prices from international Amazon stores, one recommended customer review, and a link that will direct you to the item at Amazon.com, from where you can read more information, add to your shopping cart or

wish list and checkout.

Atmolytics Cloud – Effortlessly Visualize and Understand Your Data
https://beta.atmolytics.cloud/
Atmolytics Cloud's goal is to empower everyone with analytics capabilities. 1) Speed up your data exploration - Analyse and visualise large, multiple data sources in just a few clicks with powerful data discovery features; 2) Easily build custom dashboards and reports - Create rich, interactive dashboards, reports and visuals without needing database query or coding skills; and 3) Share and collaborate with confidence - Maintain accuracy, consistency, and security while you collaborate on the same data.

BASE – Bielefeld Academic Search Engine
https://www.base-search.net/
BASE is one of the world's most voluminous search engines especially for academic web resources. BASE provides more than 100 million documents from more than 5,000 sources. You can access the full texts of about 60% of the indexed documents for free (Open Access). BASE is operated by Bielefeld University Library. They are indexing the metadata of all kinds of academically relevant resources - journals, institutional repositories, digital collections etc. - which provide an OAI interface and use OAI-PMH for providing their contents (see their Golden Rules for Repository Managers and learn more about OAI at the Open Archives Initiative or Wikipedia). The index is continuously enhanced by integrating further sources (you can suggest a source which is not indexed yet). We are working on several new features like a claiming service for authors within the ORCID DE project.

BibSonomy - The Blue Social Bookmark and Publication Sharing System
http://www.bibsonomy.org/
BibSonomy helps you to organize your scientific work. Use BibSonomy to collect publications and bookmarks, to collaborate with your colleagues, and to discover interesting researches for your daily work. Features include: 1) Collect - Ready your browser for BibSonomy: Using BibSonomy you can easily create collections of bookmark and publication posts. Just insert bookmarks and publications. You can do this even faster with our BibSonomy browser add-ons or bookmarklets. In addition, you can also use ISBN, ISSN, DOI, or barcodes to have the insert publication form filled up automatically for you. Use tags to organize the posts in your collection. If you choose them carefully, tags are a very powerful instrument; 2) Manage - Easily create bibliographies: BibSonomy helps you create bibligraphies for scientific papers. If you use a specific tag for each bibliography and assign it to all your paper posts accordingly, you can use the tag to find all papers of the bibliography. Afterwards, you can export your publication list in the desired format. BibSonomy supports a lot of formats, e. g. Microsoft Word Reference Manager, EndNote, and BibTeX; 3) Collaborate - Find colleagues or fellow students and use groups for collaboration: Use the search to find other users. On a users page, you can add them as friends. In the friends overview you can see which posts you are sharing with you friends and which posts your friends are

sharing with you. Groups offer easier means for collaboration. When adding new posts, set if the post should be private, visible for all, or only visible for certain groups. Because of copyright documents are only visible private. Within a group, they can be made visible to other group members; and 4) Discover - Find interesting content: Discover new interesting publications for your scientific activities. The fulltext search of BibSonomy helps you doing so. Beyond that, you can use the search field to filter your post lists by tags, authors and users. Be inspired by the tag clouds. Click on interesting tags, to filter the post lists for special topics. This way, you can browse through topics easily and find related contents by concept.

Business Intelligence Dashboards for Informed Decision Making
https://insightsoftware.com/promos/dashboard-software-demo/
Easily build custom data visualizations on a platform made for the complexity and dimensions of financial data. Designed for finance users who need to be able to drill into the underlying data without changing screens. Create real-time data visualizations. Get the data you need to create dashboards directly inside Excel that will empower your organization to make strategic decisions.

CORE
https://core.ac.uk/search
CORE's mission is to aggregate all open access research outputs from repositories and journals worldwide and make them available to the public. In this way CORE facilitates free unrestricted access to research for all.

DataMelt – Computation and Visualization Environment
https://jwork.org/home/datamelt/
DataMelt ("DMelt") is a free software for numeric computation, mathematics, statistics, symbolic calculations, data analysis and data visualization. This program combines the simplicity of scripting languages, such as Python, Ruby, Groovy (and others), with hundreds of Java numerical and graphical packages. Unlike other similar programs, DataMelt can be used for scientific computations using Java, word's most-popular enterprise programming language. The program runs on Windows/Mac OS/Linux and Android platform. DataMelt is a modern version of jHepWork (2005-2013) and SCaVis (2013-2015) programs.

Data Visceralization: Enabling Deeper Understanding of Data Using Virtual Reality
https://arxiv.org/abs/2009.00059
A fundamental part of data visualization is transforming data to map abstract information onto visual attributes. While this abstraction is a powerful basis for data visualization, the connection between the representation and the original underlying data (i.e., what the quantities and measurements actually correspond with in reality) can be lost. On the other hand, virtual reality (VR) is being increasingly used to represent real and abstract models as natural experiences to users.

Data Visualization and Big Data Analytics
http://www.datameer.com/
Datameer's extensive library of widgets includes tables, graphs, charts, diagrams, maps, and tag clouds which enables users to create simple dashboards or beautiful visualizations. The end result, data visualizations that communicate data. Beyond static business intelligence dashboards, Datameer provides a Business Infographics™ desiger where your data visualizations have no built-in constraints. With support for shapes such as arrows, icons and more, users can highlight or accent anything in an infographic or dashboard.

Data Visualization Beginner's Guide: A Definition, Examples, and Learning Resources
https://www.tableau.com/learn/articles/data-visualization
Data visualization is the graphical representation of information and **data**. By using visual elements like charts, graphs, and maps, **data visualization** tools provide an accessible way to see and understand trends, outliers, and patterns in **data**. In the world of Big Data, data visualization tools and technologies are essential to analyze massive amounts of information and make data-driven decisions.

Data Visualization in Society by Martin Engebretsen and Helen Kennedy (eds)
https://www.aup.nl/en/book/9789048543137/data-visualization-in-society
Today we are witnessing an increased use of data visualization in society. Across domains such as work, education and the news, various forms of graphs, charts and maps are used to explain, convince and tell stories. In an era in which more and more data are produced and circulated digitally, and digital tools make visualization production increasingly accessible, it is important to study the conditions under which such visual texts are generated, disseminated and thought to be of societal benefit. This book is a contribution to the multi-disciplined and multi-faceted conversation concerning the forms, uses and roles of data visualization in society. Do data visualizations do 'good' or 'bad'? Do they promote understanding and engagement, or do they do ideological work, privileging certain views of the world over others? The contributions in the book engage with these core questions from a range of disciplinary perspectives.

Data Visualizations, Challenges Community
https://www.visualizing.org/
A community of creative people making sense of complex issues through data and design

Data Visualization Software by Zoho Analytics
https://www.zoho.com/
Import data into Zoho Analytics from a variety of data sources such as local files, web URLs, cloud drives (Google Spreadsheets, Box, Microsoft OneDrive etc), local and cloud databases, popular business applications, custom applications etc., for in-depth analysis. Make use of a variety of charts, widgets, pivot tables and tabular view components to create insightful reports and dashboards with an easy drag-and-drop interface.

5

Data Visualization – Wikipedia
https://en.wikipedia.org/wiki/Data_visualization
Data visualization is the graphic representation of data. It involves producing images that communicate relationships among the represented data to viewers of the images. This communication is achieved through the use of a systematic mapping between graphic marks and data values in the creation of the visualization. This mapping establishes how data values will be represented visually, determining how and to what extent a property of a graphic mark, such as size or color, will change to reflect changes in the value of a datum. To communicate information clearly and efficiently, data visualization uses statistical graphics, plots, information graphics and other tools. Numerical data may be encoded using dots, lines, or bars, to visually communicate a quantitative message.[1] Effective visualization helps users analyze and reason about data and evidence. It makes complex data more accessible, understandable and usable. Users may have particular analytical tasks, such as making comparisons or understanding causality, and the design principle of the graphic (i.e., showing comparisons or showing causality) follows the task. Tables are generally used where users will look up a specific measurement, while charts of various types are used to show patterns or relationships in the data for one or more variables.

Facebook Browser by TouchGraph
http://www.touchgraph.com/facebook
TouchGraph Facebook Browser lets you see how your friends are connected, and who has the most photos together. Explore your networks by graphing photos from anyone's album, or view the connections between members of a group.

Figshare - Store, Share, Discover Research
https://figshare.com/
figshare is a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner. figshare allows users to upload any file format to be previewed in the browser so that any research output, from posters and presentations to datasets and code, can be disseminated in a way that the current scholarly publishing model does not allow. The figshare team now spans 3 continents and specializes in building best of breed software to securely and persistently store, manage and visualize data in a robust and scalable manner. Get more citations for all of the outputs of your academic research over 5000 citations of figshare content to date

Gephi - The Open Graph Viz Platform
https://gephi.org/
Gephi is the leading visualization and exploration software for all kinds of graphs and networks. Gephi is open-source and free. Runs on Windows, Mac OS X and Linux. Gephi is a tool for data analysts and scientists keen to explore and understand graphs. Like Photoshop™ but for graph data, the user interacts with the representation, manipulate the structures, shapes and colors to reveal hidden patterns. The goal is to help data analysts to make hypothesis, intuitively discover patterns, isolate structure

singularities or faults during data sourcing. It is a complementary tool to traditional statistics, as visual thinking with interactive interfaces is now recognized to facilitate reasoning. This is a software for Exploratory Data Analysis, a paradigm appeared in the Visual Analytics field of research. Applications include: a) Exploratory Data Analysis: intuition-oriented analysis by networks manipulations in real time; b) Link Analysis: revealing the underlying structures of associations between objects; c) Social Network Analysis: easy creation of social data connectors to map community organizations and small-world networks; d) Biological Network analysis: representing patterns of biological data; and e) Poster creation: scientific work promotion with hi-quality printable maps.

Ggplot2
https://ggplot2.tidyverse.org/
ggplot2 is a system for declaratively creating graphics, based on The Grammar of Graphics. You provide the data, tell ggplot2 how to map variables to aesthetics, what graphical primitives to use, and it takes care of the details. ggplot2 is now over 10 years old and is used by hundreds of thousands of people to make millions of plots. That means, by-and-large, ggplot2 itself changes relatively little. When we do make changes, they will be generally to add new functions or arguments rather than changing the behaviour of existing functions, and if we do make changes to existing behaviour we will do them for compelling reasons.

Google Data Studio
https://datastudio.withgoogle.com/
Your data is beautiful. Use it. Unlock the power of your data with interactive dashboards and automated reports that inspire smarter business decisions. Features include: 1) Unite your data in one place - Easily import and visualize your data from spreadsheets, Google Analytics, Google Ads, BigQuery, and many other dashboards or databases. See up-to-date reports for multiple projects and data sources in one easy interface. Integrated with over 150 cloud, SQL, e-commerce, and digital advertising platforms, 2) Explore the data - Transform your advertising performance and other data into easy-to-understand reports and dashboards that fit your business intelligence needs. Monitor your progress for the business metrics you care about, including ad spend, site traffic, search rankings, and more; 3) Tell impactful stories - Create and share data visualizations that automatically turn numbers into insights through engaging charts and graphs. Easily understand your ROI from your business initiatives and digital advertising spend; and 4) Empower your teams - Share marketing and business data with your teams in real time so that everyone can find the answers they need. Boost productivity across teams by helping them access the business data they need to work better cross-functionally. When everyone on the team understands what's impacting the big picture, in real time, and works together to drive better data-driven results — that's teamwork.

IBM Data Refinery – Profile and Visualize Data
https://www.ibm.com/cloud/data-refinery
Available in IBM Watson® Studio and Watson™ Knowledge Catalog, the data refinery

tool saves data preparation time by quickly transforming large amounts of raw data into consumable, quality information that's ready for analytics.

Information Visualization Resources on the Web
http://graphics.stanford.edu/courses/cs348c-96-fall/resources.html
A comprehensive site listing information visualization resources available on the Internet with heavy emphasis based on academic sources.

Integrating Information Visualization and Retrieval for WWW Information Discovery
http://portal.acm.org/citation.cfm?id=763071
An important technology in knowledge discovery is to access the desired information from the large amount of data stored on the WWW. At present, such information can be accessed by a browser itself or by using a keyword search function. However, browsing is a time consuming task where a user must access individual pages one by one. Furthermore, in keyword searches, it is difficult for users to provide reasonable keywords in knowledge discovery processes. This paper outlines an approach for integrating information visualization and retrieval into WWW information discovery. In this approach, the link structure of a web site is displayed in a 3-D hyperbolic tree in which the height of a node (corresponding to a web page) within the tree indicates a user's "interest" for each page. Here, interest is calculated by a fitting function between a page and a user-supplied query (nested keywords). This measure can be used to filter uninteresting pages, reducing the size of the link structure. Furthermore, each web page is modeled as semi-structured data and can also be displayed as a hyperbolic tree in which the result of query evaluation is visible.

Kartoo
http://www.kartoo.com/
KartOO is a metasearch engine with visual display interfaces. When you click on OK, KartOO launches the query to a set of search engines, gathers the results, compiles them and represents them in a series of interactive maps through a proprietary algorithm

Knoema Knowledge Platform
http://knoema.com/
Knoema is a knowledge platform. The basic idea is to connect data with analytical and presentation tools. As a result, we end with one uniformed platform for users to access, present and share data-driven content. Within Knoema, we capture most aspects of a typical data use cycle: accessing data from multiple sources, bringing relevant indicators into a common space, visualizing figures, applying analytical functions, creating a set of dashboards, and presenting the outcome.

Knowledge Discovery 2022 Subject Tracer™
http://www.KDResources.info/
A Subject Tracer monitoring knowledge discovery resources including a number of information visualization research browsers. Powered by bots and continually updated. Sources listed alphabetically with name and URL.

Lazy Scholar - Browser Extension
http://www.lazyscholar.org/
Finds free scholarly full texts, metrics, and provides quick citation and sharing links automatically. Features include: a) Automatic Full Text Search - Open any scholarly article and Lazy Scholar gets to work searching for a free full text; b) New Recommendations - Lazy Scholar can learn what topics you like to read and scans new PubMed listings to suggest new papers; c) Metrics - Lazy Scholar provides various citation metrics. (Google Scholar, Microsoft Academic, Web of Science; Impact factor, Altmetric, etc); d) Search History - Can't find that paper you opened yesterday? Lazy Scholar saves your history and provides an interface to find it; e) Quick Citation - A pre-formed citation available in over 900 citation styles; and f) Related Papers - Quickly identify other papers you may want to read.

Matplotlib: Visualization with Python
https://matplotlib.org/
Matplotlib is a plotting library for the Python programming language and its numerical mathematics extension NumPy. It provides an object-oriented API for embedding plots into applications using general-purpose GUI toolkits like Tkinter, wxPython, Qt, or GTK+

Mirador – Tool for Visual Exploration of Complex Datasets
https://fathom.info/mirador/
Mirador is a tool for visual exploration of complex datasets. It enables users to discover correlation patterns and derive new hypotheses from the data. Mirador is an open source project released under the GNU Public License v2. It is the result of a collaboration between the Sabeti Lab at Harvard University, the Broad Institute of MIT and Harvard, and Fathom Information Design. Initial support was provided by the Center of Communicable Disease Dynamics and the MIDAS network funded by the National Institutes of Health.

Open Access Button
https://openaccessbutton.org/
Free, legal research articles delivered instantly or automatically requested from authors. Give them a scholarly paper and they will search thousands of sources with millions of articles to link you to free, legal, full text articles instantly. If they can't get you access, they will start a request for you. They request articles from authors, and guide them on

making the work available to you and everyone who needs it. You can do this from their website, browser extensions, tools for libraries or their API. Take your pick ….

Orange Data Mining
http://orange.biolab.si/
Open source machine learning and **data visualization** for novice and expert. Interactive data analysis workflows with a large toolbox. erform simple data analysis with clever data visualization. Explore statistical distributions, box plots and scatter plots, or dive deeper with decision trees, hierarchical clustering, heatmaps, MDS and linear projections. Even your multidimensional data can become sensible in 2D, especially with clever attribute ranking and selections. Interactive data exploration for rapid qualitative analysis with clean visualizations. Graphic user interface allows you to focus on exploratory data analysis instead of coding, while clever defaults make fast prototyping of a data analysis workflow extremely easy. Place widgets on the canvas, connect them, load your datasets and harvest the insight!

Nanocubes® - Fast Visualization of Large Spatiotemporal Datasets
http://www.nanocubes.net/
The Nanocubes® technology provides you with real-time visualization of large datasets. Slice and dice your data with respect to space, time, or some of your data attributes, and view the results in real-time on a web browser over heatmaps, bar charts, and histograms. They have used it for tens of billions of data points: maybe you can push it even farther! The main Nanocubes program is a command-line utility that processes your data and starts a web server to answer query requests. They provide Javascript APIs for visualization. But the Nanocubes program can be used for fast analysis of your data as well: you can think of it as a very fast (if somehow limited) database query engine. As an illustrative example, we have used anomaly detection routines to query the Nanocubes engine and output potential outliers and hotspots.

Panopticlick – Is Your Browser Safe Against Tracking?
https://panopticlick.eff.org/
When you visit a website, online trackers and the site itself may be able to identify you – even if you've installed software to protect yourself. It's possible to configure your browser to thwart tracking, but many people don't know how. Panopticlick will analyze how well your browser and add-ons protect you against online tracking techniques. We'll also see if your system is uniquely configured—and thus identifiable—even if you are using privacy-protective software.

Point - Use Point To Send and Discuss Webpages with Friends
http://www.getpoint.co/
Use Point To Send and Discuss Webpages with Friends. Features include: a) The quickest way to send a link - With Point, you can send a link without leaving the page or app you are in; b) Everyone's on the same page - Point sits alongside what you're sharing, allowing you to easily quote the best parts; c) All your links in one place - Point

saves everything you send or receive in your inbox – accessible from our browser extension and iPhone app; and d) You don't need friends on Point - While Point works best with a few close friends, it also works fabulously with email contacts.

Scientific Data Repository - Real Time Visualization and Exploration Techniques
http://www.mlvis.com/platform.php
This project is the first to combine the notion of a data repository with real-time visual analytics for interactive data mining and exploratory analysis on the web. State-of-the-art statistical techniques are combined with real-time data visualization giving the ability for researchers to seamlessly find, explore, understand, and discover key insights in a large number of public donated data sets. This large comprehensive collection of data is useful for making significant research findings as well as benchmark data sets for a wide variety of applications and domains and includes relational, attributed, heterogeneous, streaming, spatial, and time series data as well as non-relational machine learning data. All data sets are easily downloaded into a standard consistent format. They also have built a multi-level interactive visual analytics engine that allows users to visualize and interactively explore the data in a free-flowing manner.

Seaborn
https://seaborn.pydata.org
Seaborn is a library for making statistical graphics in Python. It is built on top of matplotlib and closely integrated with pandas data structures. Seaborn aims to make visualization a central part of exploring and understanding data. Its dataset-oriented plotting functions operate on dataframes and arrays containing whole datasets and internally perform the necessary semantic mapping and statistical aggregation to produce informative plots.

SEO Browser by TouchGraph
http://www.touchgraph.com/seo
TouchGraph SEO Browser reveals the network of connectivity between websites, as reported by Google's database of related sites.

Springer Nature API Portal
https://dev.springernature.com/
Springer Nature is a leading global scientific publisher of books and journals, delivering quality content through innovative information products and services. It publishes close to 500 academic and professional society journals. In the science, technology and medicine (STM) sector, the group publishes about 3,000 journals and 13,000 new books a year, as well as the largest STM eBook Collection worldwide. Springer Nature has operations in about 20 countries in Europe, the USA, and Asia, and more than 10,000 employees. We have created multiple APIs for developers to access our freely available content for noncommercial use: **Springer Nature Meta API** - Provides new versioned metadata for 14 million online documents (e.g., journal articles, book chapters, protocols).

Sputnik – An Open Source Intelligence Browser Extension
https://github.com/mitchmoser/sputnik
Sputnik is an extension to quickly and easily search IPs, Domains, File Hashes, and
URLs using free Open Source Intelligence (OSINT) resources.

Tableau Data Visualization – Free Data Visualization Tool
https://www.tableau.com/
Data visualization is the graphical representation of information and data. With visual
elements like charts, graphs, and maps, data visualization tools provide an accessible way
to see and understand trends, outliers, and patterns in data. In the world of big data, data
visualization tools and technologies are essential to analyze massive amounts of
information and make data-driven decisions. Their culture is visual, including everything
from art and advertisements to TV and movies, and our eyes are drawn to colors and
patterns. Their interaction with data should reflect this reality.

The Best Data Visualization Tools
https://www.pcmag.com/picks/the-best-data-visualization-tools
Where business intelligence (BI) tools help with parsing large amounts of data,
visualization tools help present that data in new ways to facilitate understanding and
decision making. They test the latest crop of these business aids to help you get the most
from your data.

The Open Observability Platform
https://grafana.com/
Grafana is the open source analytics and monitoring solution for every database.

ThinkMap
http://www.thinkmap.com/
Thinkmap is a software platform for developing customized visualization interfaces to
complex data. The software provides a system for crafting visualizations with structured
data in order to make the information more intuitive, accessible, manageable and
meaningful. Thinkmap visualizations can make relationships in the data more apparent
than can traditional line or column displays and can improve understanding and
discovery.

Tinderbox – The Tool for Notes
http://www.eastgate.com/Tinderbox/
Tinderbox maps your notes as you make them. Build relationships by arranging notes,
organizing them with shape and color, linking them. Tinderbox lets you record ideas
quickly and keep them where you'll find them again when you need them

TorchBrowser - Free and Unique Powerful Browsing
http://torchbrowser.com/
Torch is a free and unique software that offers you powerful browsing together with

built-in media downloading and sharing features. Torch Browser is based on the Chromium technology platform, giving it fast browsing capabilities. With Torch, you can share sites you like, download torrents, accelerate downloads and grab online media - all directly from the browser. Everything you need is a just click away with Torch, so you don't have to use or download additional programs and tools. Their software has a user friendly interface, is easy to install, and safe to use.

Tor Project – Tor Browser
https://www.torproject.org/
The **Tor** software protects you by bouncing your communications around a distributed network of relays run by volunteers all around the world: it prevents somebody watching your Internet connection from learning what sites you visit, it prevents the sites you visit from learning your physical location, and it lets you access sites which are blocked. The **Tor Browser** lets you use Tor on Windows, Mac OS X, or Linux without needing to install any software. It can run off a USB flash drive, comes with a pre-configured web browser to protect your anonymity, and is self-contained (portable).

TouchGraph – Navigator - Visualize and Interact with Information
http://www.touchgraph.com/
TouchGraph was founded in 2001 with the creation of the original visual browser for Google. Since then, millions of people have used TouchGraph's tools to discover the relationships contained in Google, Amazon, Wikis, and other popular information sources. Our commercial applications include solutions for companies in management consulting, social networking, and mass media. TouchGraph's approach is unique because their highest priorities are utility and ease of use. They start with the premise of a scientific or business application, and work to create a clear and intuitive interface that gets their customers the results they need. They avoid superfluous artistic effects in favor of a clear presentation. Their applications are designed to simplify navigation, filtering, and visual metaphors. They reveal important relationships and details in your data without reducing the richness of the information itself.

Tracking the State of Open Government Data
https://index.okfn.org/
The Global Open Data Index provides the most comprehensive snapshot available of the state of open government data publication.

Unpaywall – Research Papers for Free
http://unpaywall.org/
Millions of research papers are available for free on government and university web servers, legally uploaded by the authors themselves, with the express permission of publishers. Unpaywall automatically harvests these freely shared papers from thousands of legal institutional repositories, preprint servers, and publishers, making them all availabe to you as you read. Unpaywall users are able to read over **52%** of research papers for free--without having to pay money, fuss with a VPN, or use pirate sites like

Sci-Hub. That's because we're built on a database of millions of open-access articles harvested from thousands of servers worldwide. When you browse to a paywalled paper, we check to see if we have a free copy. If we do, you'll see a green tab...just click, and read.

Visualization Laboratory (VISLAB)
https://www.tacc.utexas.edu/vislab
The TACC Visualization Laboratory (Vislab) is a state-of-the-art facility where staff explores the intersection between human perception and large-scale visual analysis through the study of visualization and interactive displays. The Vislab serves as a research hub for human-computer interaction, tiled display software development, and visualization consulting.

Visualizing Bibliographic MetaData – A Virtual (Book) Spine Viewer by Naomi Dushay
http://www.dlib.org/dlib/october04/dushay/10dushay.html
User interfaces for digital information discovery often require users to click around and read a lot of text in order to find the text they want to read—a process that is often frustrating and tedious. This is exacerbated because of the limited amount of text that can be displayed on a computer screen. To improve the user experience of computer mediated information discovery, information visualization techniques are applied to the digital library context, while retaining traditional information organization concepts. In this article, the "virtual (book) spine" and the virtual spine viewer are introduced. The virtual spine viewer is an application which allows users to visually explore large information spaces or collections while also allowing users to hone in on individual resources of interest. The virtual spine viewer introduced here is an alpha prototype, presented to promote discussion and further work. [Note: 2004 Publication but worth a read]

Visualizing Data – A Monthly Digest of the Best of Data Visualization
https://www.visualisingdata.com/
At the end of each month Andy Kirk pulls together a collection of links to some of the most relevant, interesting or thought-provoking web content that he has come across during the previous month.

Visual.ly – Empowers People To Tell Stories With Data
http://visual.ly/
Visually is the largest data visualization showcase in the world, providing endless inspiration for designers, publishers and enthusiasts. Visually's free tools make it easy for anyone to create beautiful, personalized infographics in minutes. What stories will you tell?

Vivaldi - Power User Browser
https://vivaldi.com/
You spend a lot of time on the web. You deserve a browser that is personal, has the

functionality you need and the flexibility you crave. You deserve Vivaldi so we made it for you. Get an in-depth overview of your browsing habits, backed by statistics and visual data. With History more useful than ever before, you can quickly scan through visited websites and get helpful hints for finding old links. Found that perfect quote for your essay or article? Copy that text to the notes panel, adding a link at the same time. Add a screen shot, just in case the page changes. The world is a colorful place because we are all different and unique. We at Vivaldi believe in making software that lets you do things your way. We adapt to you! With Vivaldi you can customize the browser the way you want. Do you prefer the browser tabs placed at the bottom or on the side of the window? Or, a different location for the address bar? Whether it's your keyboard shortcuts, mouse gestures, appearance or a modification to address color blindness, Vivaldi gives you the tools. Do you tend to keep many tabs open in your browser? Organize the view using Tab Stacking. This feature lets you group multiple tabs into one. Just drag a tab over to another for an uncomplicated grouping. With Tab Stack Tiling, you can display multiple tabs side by side or in a grid layout. Through multiple tab stacks that are tiled, you have multiple desktops, which you can switch between with a single click. More power to you! When buying a new car, you are given a choice of colors and customized features. With Vivaldi, you aren't limited to our sense of style. Drive your own style with our many included themes, or easily make your own! Do you like command line control? Then Vivaldi is sure to delight. Quick Commands let you search through open tabs, bookmarks, history, settings and more from a command line interface. One of the things that makes Vivaldi unique is that it is built on modern web technologies. We use JavaScript and React to create the user interface with the help of Node.js and a long list of NPM modules. Vivaldi is the web built with the web.

Website Downloader
https://websitedownloader.io/
Download all the source code and assets of any website. Features include: a) Key Benefits - Easiest way to download a website; b) Platform Independent - The web based interface enables you to use website ripper straight in your browser on any operating system and without downloading or configuring any software. Use it when you need to quickly download website; c) Fast Previews - Website Downloader offers a fast preview of the download result hosted on our servers without consuming your computer's precious disk space. After the preview you can download web page or download entire website; and d) Simplicity - Website Downloader is super simple and easy to use, yet it comes with advanced functionality such as only downloading a subdirectory or certain pages from a website (as a web page downloader). Website grabber is the easiest way to download a website. Website Downloader, Website Copier or Website Ripper allows you to download websites from the Internet to your local hard drive on your own computer. Website Downloader arranges the downloaded site by the original websites relative link-structure.

WhatRuns - Discover What Runs a Website
https://www.whatruns.com/
WhatRuns is a new but advanced browser extension that helps you identify web
technologies used on any website. Our proprietary pattern recognition algorithm
efficiently detects even the latest web technologies and plugins used on websites.
WhatRuns extension can be used for competitor analysis, sales intelligence and website
profiling.

Zotero – Personal Research Assistant
https://www.zotero.org/
Zotero is the only research tool that automatically senses content in your web browser,
allowing you to add it to your personal library with a single click. Whether you're
searching for a preprint on arXiv.org, a journal article from JSTOR, a news story from
the *New York Times*, or a book from your university library catalog, Zotero has you
covered with support for thousands of sites. Zotero collects all your research in a single,
searchable interface. You can add PDFs, images, audio and video files, snapshots of web
pages, and really anything else. Zotero automatically indexes the full-text content of your
library, enabling you to find exactly what you're looking for with just a few keystrokes.

Zeef – Data Visualization Resources
https://zeef.com/?query=Data%20Visualization&in=all
Found over 291 data visualization resources, sources and tools from individuals whose
curated directories for development and tech resources are constantly updated.

Awarenesswatch™ Spotters

Updated> Bots, Blogs and News Aggregators 2022
http://www.BotsBlogs.com/
Research white paper link dataset compilation **Bots, Blogs and News Aggregators 2022**
is now a 19-page research paper listing many resources both new and existing that will
help anyone who is attempting to find information and knowledge research about bots,
blogs and news aggregator tools currently available on the Internet. It is freely available
as a .pdf file (973kb) at the above link from the Virtual Private Library™ and authored by
Marcus P. Zillman, M.S., A.M.H.A.. It was completely updated and all links validated on
May 1, 2022. Other white papers are available by clicking here.

Updated> Tutorial Resources 2022
[Download Tutorial Resources 2022 White Paper Link Dataset Compilation]
Tutorial Resources 2022 (TutorialResources.info) is a Subject Tracer™ Information Blog
developed and created by the Virtual Private Library™. It is designed to monitor tutorial
resources on the World Wide Web and listed below. We always welcome suggestions of
additional sites and resources to be added to this comprehensive listing and please submit

by clicking here. This site has been developed and maintained by Marcus P. Zillman, M.S., A.M.H.A.; Internet expert, author, keynote speaker, and consultant. His latest white papers include *Searching the Internet 2022*, *Academic and Scholar Search Engines and Sources 2022*, and *Knowledge Discovery Resources 2022*. All of his Subject Tracer™ Information Blogs and his white papers are available from WhitePapers.us. His latest monthly column is available by clicking here. Subscribe to his free monthly **Awareness Watch™** Newsletter. Learn more by clicking here. Completely reviewed and updated on **May 1, 2022**; 26 pages; 657KB PDF. © 2007 – 2022 Marcus P. Zillman, M.S., A.M.H.A.

Academic and Scholar Search Engines and Sources 2022 – May 2022 Edition
http://www.ScholarSearchEngines.com/
Internet Annotated Link Dataset Compilation titled "Academic and Scholar Search Engines and Sources 2022" is now a 86-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 (886KB) 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: **May 1, 2022**]. Other white papers are available by clicking here.

Updated> Data Mining Resources 2022
http://www.DataMiningResources.info/
I have just created Data Mining Resources 2022 Subject Tracer™ Whitepaper Dataset Link Compilation. It is now a 30-page PDF white paper document (752KB) and is available from the above URL link. It lists alphabetically the latest resources and referenced sources for data mining available from the Internet. Created on **May 2, 2022**. Additional white papers and resources by Marcus P. Zillman are available by clicking here.

Deep Web Research and Discovery Resources 2022 – May 2022 Edition
http://www.DeepWeb.us/
I have just updated my white paper link dataset compilation and now titled **Deep Web Research and Discovery Resources 2022** and it is now a 89-page PDF document (1200 KB) freely available directly from the above URL. This update verified all links as well as reviewed all resources covered including adding additional links. Currently, this has been downloaded over 12,000,000+ times! [Updated on **May 1, 2022**]

Updated> eCommerce Resources On the Internet 2022
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 2022** Subject Tracer™ Information Blog by Marcus P. Zillman, M.S., A.M.H.A.. It is a 30-page PDF document (684KB) freely available from

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Awareness Watch V20N6 June 2022 Newsletter
http://www.AwarenessWatch.com/
zillman@VirtualPrivateLibrary.com
eVoice: 239-206-3450
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the above URL. [Updated with all links validated and new links added on **May 3, 2022**]. Other white papers are available by clicking here.

Open Educational Resources (OER) Sources 2022 – May 2022 Edition
http://www.OERSources.com/
"Open Educational Resources (OER) Sources 2022 are freely accessible, openly licensed text, media, and other digital assets that are useful for teaching, learning, and assessing as well as for research purposes". [Wikipedia] Costs continue to rise for students who are pursuing college and post-graduate degree programs. By leveraging best practice sites, services, and non-traditional options to expand knowledge, skills, and abilities in many disciplines, students can choose from a wide range of options to complete their respective goals. This freely available guide, Open Educational Resources (OER) Sources 2022, is a comprehensive listing of useful open educational resources, sources, and sites on the Internet that can assist you in optimizing your learning opportunities. This will be added to OERSearchEngine.com. This will be added to Education and Academic Resources Subject Tracer™. This will be added to Student Research Resources Subject Tracer™. Completely updated including all links validated on **May 1, 2022;** [66 pages; 1175 KB PDF]

Project: Social Buzz Bot 2022 – The Business and Social Intelligence Search Engine for Information Discovery from Social Communities
http://www.SocialBuzzBot.com/
Description: The Social Buzz Bot (SSB) 2022 is a highly structured search bot utilizing cloud computing with a grid of 50,000+ computers within the cloud. Our unique distributed architecture stitches together computers from all around the world to deliver exceptional bot crawling performance. We currently will have the capability to crawl two billion + pages per day. The niched part of our project is to have available current awareness curated business and social intelligence information with regards to the various significant and not so significant (where many memes are born) social communities and related applications and sites. The Social Buzz Bot will give the small entrepreneurial startup, medium-size business, and large scale enterprise business networks the capability to receive current awareness happenings in the social community environs and to use that business intelligence to make decisions that will aid the overall performance and direction of the business in today's new and exponentially growing social economy. Updates will happen as the project continues its ongoing AI research and development.

Updated> Education and Academic Resources 2022
http://WhitePapers.VirtualPrivateLibrary.net/education resources.pdf
Education and Academic Resources 2022 (EducationResources.info) is a Subject Tracer™ Information Blog developed and created by the Virtual Private Library™. It is designed to monitor education and academic resources on the World Wide Web. We always welcome suggestions of additional sites and resources to be added to this comprehensive listing and please submit by clicking here. This site has been created,

developed, and maintained by [Marcus P. Zillman, M.S., A.M.H.A.](); Internet expert, author, keynote speaker, and consultant. Areas Covered in this white paper link dataset compilation include: a). Education Resources, b). Distance Learning Resources, c). Chemistry Resources, d). Economics Resources' e). General Resources, f). Journals/Book Resources, g). Lecture Notes/Study Guides Resources, h). Mathematics/Statistics Resources, i). MBA Resources, j). MOOCS/Open Courseware (OCW) Resources, k). Online Tutoring/Homework Help Resources, l). Ph.D./Dissertation/Thesis/Academic Writing Resources, m). Philosophy Resources, n). Scholarship Resources, o). Science/Engineering/Technology Resources, p). Study Skills Resources, q). Study Resources for Specific Career Options, and r). Subject Tracers. Updated and all links validated: **May 4, 2022**. [41 pages; 671KB PDF]

New Normal Startup Resources 2022 – May 2022 Edition
http://www.NewNormalStartUpResources.com/
http://whitepapers.VirtualPrivateLibrary.net/New_Normal_Startup_Resources.pdf
The white paper link dataset compilation of the **New Normal Startup Resources 2022** Subject Tracer™ Information Resource by [Marcus P. Zillman, M.S., A.M.H.A.]() has just been updated **May 1, 2022** and is now a freely available 53-page PDF document (911 KB) listing the latest and greatest online resources and sites for the new normal startup resources! Other white papers are available by clicking [here](). This is a MUST publication for every business in today's COVID-19 world and more!

Updated> Elder Resources 2022
http://www.ElderResources.info/
The above is the white paper link dataset compilation of [Elder Resources 2022]() by [Marcus P. Zillman, M.S., A.M.H.A.]() It is a 19-page PDF document (550KB). [Completely updated with all links validated and new URLs added on **May 5, 2022**] Other white papers are available by clicking [here]().

DAO Resources 2022
http://whitepapers.virtualprivatelibrary.net/DAO_Resources.pdf
http://www.DAOResources.com/
Decentralized Autonomous Organizations (DAO) is a term that should keep popping up with more frequency during the blockchain boom. DAO's can improve business operations across any vertical or industry as follows: a). DAOs set steadfast rules; b). DAOs represent the entire organization; c). DAOs encourage widespread engagement; d). DAOs may prompt productivity, and e). DAOs eliminate the chain of command!! Updated: **May 5, 2022**; 23 pages; 507KB PDF. **NOW including NFT and MetaVerse Resources!!**

Digital Operating Systems Using Artificial Intelligence, Deep Learning, and Bots for the Small and Medium Size Business 2022 – Tools and Resources
http://www.DigitalOperatingSystems.com/
Digital Operating Systems 2022 by [Marcus P. Zillman, M.S., A.M.H.A.]() will be a 500+

page manual with 15 chapters from Artificial Intelligence Resources to Future Predictions and Conclusions. This is designed giving the tools and resources necessary for the small and medium size business who now want to create or improve their digital operating system for the New Economy 2022. This publication is in process and should be available on or before the third quarter of 2022. For additional information go to the above URL or contact the author. Preorders are now available.

Updated> eMarketing MiniGuide 2022
http://whitepapers.virtualprivatelibrary.net/eMarketing_MiniGuide_2022.pdf
http://www.eMarketingMiniGuide.com/
Freely available **eMarketing MiniGuide 2022** by Marcus P. Zillman, M.S., A.M.H.A. The 16-page (779KB) PDF miniguide updated on May 6, 2022 covers the following areas: a) B2b Marketing; b) Book Self-Publishing; c) Content Marketing; d) Conversion Rate Optimization; e) Landing Page Optimization; f) Lead Generation, Lead Nurturing, Lead Scoring and Lead Management; g) Lead/Agile Software Development; h) Marketing Automation; i) Public Relations/Press Releases; j) Social Media Marketing; j) Web Marketing.Internet Marketing; k) Web User Experience; l) Miscellaneous; and m) Subject Tracer™ Information Blogs Visit this freely available **eMarket MiniGuide 2022** today and use all these excellent resources. Please spread the word about this freely available MiniGuide to all your friends, associates and social media networks!! Visit my just updated for 2022 54 Subject Tracers™ by clicking here.

Updated> Employment Resources on the Internet 2022
http://www.EmploymentResources.info/
I have just updated my white paper link dataset compilation titled **Employment Resources on the Internet 2022** and is now a 24-page PDF document (648KB) freely available from the above URL. Other white papers are available by clicking here. [Completely updated including all links validated and new links added on **May 7, 2022**

Updated> Financial Sources 2022
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 35-page PDF document (568KB). Recreated on **May 9, 2022**. Other white papers are available by clicking here.

Updated> Crowd Funding Resources 2022
http://whitepapers.virtualprivatelibrary.net/Crowd_Funding_Resources_2022.pdf
http://www.CrowdFundingResources.info/
The above white paper link dataset compilation of the Crowd Funding Resources 2022 Subject Tracer™ by Marcus P. Zillman, M.S., A.M.H.A. is a freely available 20-page PDF document (536KB) listing the latest and greatest online resources and sites for crowd funding! Created **May 10, 2021**. Other white papers are available by clicking here.

Updated> Financial Sources for the Family Office 2022
http://whitepapers.virtualprivatelibrary.net/Financial_Sources_for_the_Family_office.pdf
http://www.FinancialSourcesFamilyOffice.com/
The above is a white paper link dataset compilation for **Financial Sources for the Family Office 2022** by Marcus P. Zillman, M.S., A.M.H.A. It is now a 35-page .pdf document 759KB. [Updated on **May 9, 2022**] Other white papers are available by clicking here.

Updated> Drone Resources 2022 White Paper Link Dataset Compilation
http://www.DroneResources.info/
The above white paper link dataset compilation of the Drone Resources 2022 Subject Tracer™ by Marcus P. Zillman, M.S., A.M.H.A. is a freely available 15-page PDF document (669KB) listing the latest and greatest online resources and sites for drones! Completely updated including all links validated on **May 11, 2022.** Other white papers are available by clicking here.

Updated> Current Awareness Tools 2022
http://whitepapers.virtualprivatelibrary.net/current_awareness_tools_2022.pdf
Research white paper titled "**Current Awareness Tools 2022**" is a 18-page research paper listing many resources both new and existing that will help anyone who is attempting to find information and knowledge research about current awareness tools available on the Internet. It is freely available as a PDF file (278KB) at the above link from the Virtual Private Library™ and authored by Marcus P. Zillman, M.S., A.M.H.A. It was recreated on **May 12, 2022**. Other white papers are available by clicking here. Direct URL Bookmark: http://www.CurrentAwarenessTools.com/

Updated> Grid, Distributed and Cloud Computing Resources Primer 2022
http://www.zillman.us/white-papers/grid-distributed-and-cloud-computing-resources-primer/
I am very pleased to announce that I have just updated my **Grid, Distributed and Cloud Computing Resources Primer 2022**. This primer is now 27-page and a .pdf document (614KB) and freely available from the above URL. This primer gives an excellent overview of Cloud Computing along with a comprehensive listing of cloud, grid, and distributed computing resources! It will be permanently archived in my White Papers site and is also available from my main site. [Updated with all links validated and new links added on **May 13, 2022**]

Updated> Games Resources 2022 White Paper Link Dataset Compilation
http://www.GamesResources.info/ I have just updated the associated white paper link dataset compilation of the Games Resources 2022 Subject Tracer™ Information Blog by Marcus P. Zillman, M.S., A.M.H.A. It is a 19-page PDF document (679KB). [Completely updated on **May 14, 2022**]. Other white papers are available by clicking here.

June 2022 Zillman Column: 2022 Link Guide to Tutorial Resources
http://columns.virtualprivatelibrary.net/2022_Link_Guide_Tutorial_Resources_June22_column.pdf
http://www.ZillmanColumns.com/
The June 2022 Zillman Column features **2022 Link Guide to Tutorial Resources** by Marcus P. Zillman, M.S., A.M.H.A.; Executive Director of the Virtual Private Library. This is a comprehensive listing of tutorial resources, sites, and tools on the Internet and available in the new "zoom" education/learning/business age. These competent tutorial resources and tools will be your search engine for your tutorial research. The below list of sources is partially taken from my Subject Tracer™ Information Blog titled Tutorial Resources 2022 and is constantly updated with Subject Tracer™ bots at the following URL: http://www.TutorialResources.info/. These resources and sources will help you to discover the many pathways available to you through the Internet to find the latest tutorial resources, sources, and sites. This is another MUST have column to discover the latest 2022 competent online tutorial resources and tools to give you the information you need in today's ever-changing and fast-paced 2022 New Economy business and academic research world and the New Normal 2022.

Updated> Genealogy Resources 2022
http://GenealogyResources.info/
The white paper link dataset compilation of the Genealogy Resources 2022 Subject Tracer™ Information Blog by Marcus P. Zillman, M.S., A.M.H.A. and is a freely available 19-page PDF document (533KB) listing the latest and greatest online resources and sites for genealogy! Completely Updated including all links validated and new links added on **May 16, 2022.** Other white papers are available by clicking here.

Updated> Grant Resources on the Internet 2022
http://www.GrantResources.info/
The above is the white paper titled Grant Resources 2022 Subject Tracer™ Information Blog by Marcus P. Zillman, M.S., A.M.H.A.. It is a freely available a 17-page PDF document (758KB) listing the latest and greatest online resources and sites for grants! Updated with all links validated and new links added on **May 17, 2022**. Other white papers are available by clicking here.

Updated> Green Files 2022
http://www.GreenFiles.info/
The above white paper link dataset compilation of the Green Files 2022 Subject Tracer™ Information Blog by Marcus P. Zillman, M.S., A.M.H.A. is a freely available 20-page PDF document (584KB) listing the latest and greatest online resources and sites for the environment and all things green! Updated on **May 18, 2022**

Updated> Grid, Distributed and Cloud Computing Resources 2022
http://www.GridResources.info/
The above is my white paper link compilation of Grid, Distributed and Cloud Computing Resources 2022 Subject Tracer™ by Marcus P. Zillman, M.S., A.M.H.A. It is now a 25-page PDF document (587KB). Updated including all links validated and new links added on **May 19, 2022**. Other white papers are available by clicking here.

Updated> Healthcare Online Resources 2022
http://www.HealthcareResources.info/
Healthcare Online Resources 2022 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 **May 20, 2022;** 33 pages; 804KB PDF] **Also available directly from:** http://HealthPathFinders.com/

Updated> Information Quality Resources 2022 White Paper Link Dataset Compilation
http://www.zillman.us/subject-tracers/information-quality-resources/
http://www.InformationQualityResources.com/
The above is the associated white paper link dataset compilation of the **Information Quality Resources 2022** Subject Tracer™ Information Blog by Marcus P. Zillman, M.S., A.M.H.A.. It is a freely available 20-page PDF document (436KB) listing the latest and greatest online resources and sites for quality information resources! Completely updated including all links validated and new links added on **May 21, 2022**. 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 2022 New Economy. Visit my 2022 54 Subject Tracers™ by clicking here.

Updated> International Trade Resources 2022
http://www.InternationalTradeResources.info/
The above is the associated white paper link compilation of the International Trade Resources 2022 Subject Tracer™ Information Blog by Marcus P. Zillman, M.S., A.M.H.A. It is now a 25-page PDF document (622KB). [Updated completely with all links validation and new links added on **May 22, 2022]** Other white papers are available by clicking here.

Updated> Internet Demographics 2022
http://www.InternetDemographics.info/
I have just updated my Subject Tracer™ Information Blog white paper link dataset compilation titled Internet Demographics 2022 which is now a 15 page paper listing selected resources both new and existing that will help anyone who is attempting to find the latest information about Internet demographics that are available over the Internet. It

is freely available as a .pdf file (371KB) at the above link from the Virtual Private Library™ and authored by Marcus P. Zillman, M.S., A.M.H.A. It was updated with all links validated and new links added on **May 22, 2022**. Other white papers are available by clicking here. Visit my just updated for 2021 54 Subject Tracers™ by clicking here

Note: This site is designed to educate you about the latest happenings in all areas of **Anti-Virus, AntiHoax, AntiMyth, AntiFraud, AntiChain Letter and Anti-Spam** occurring on the Internet. It brings together in one page the many resources and sites that can **educate** you about the current happenings in the areas of anti-virus, anti-hoax, anti-myth, anti-fraud, anti-chain letter and anti-spam.
[Download Internet Anti-Virus, AntiHoax, AntiMyth, AntiFraud, AntiChain Letter and Anti-Spam Resources and Sites 2022 White Paper Link Dataset Compilation]
Anti-Virus, AntiHoax, AntiMyth, AntiFraud, AntiChain Letter and Anti-Spam Resources and Sites 2022 on the Internet presented by the Virtual Private Library™ and powered by Subject Tracer™ Bots which are listed below. We always welcome suggestions of additional sites and resources to be added to this comprehensive listing and please submit by clicking here. This site has been developed and maintained since 1996 by Marcus P. Zillman, M.S., A.M.H.A.; Internet expert, author, keynote speaker, and consultant. His latest white papers include *Searching the Internet 2022*, *Academic and Scholar Search Engines and Sources 2022*, and *Knowledge Discovery Resources 2022*. All of his Subject Tracer™ Information Blogs and his white papers are available from WhitePapers.us. His latest monthly column is available by clicking here. Subscribe to his free monthly **Awareness Watch™** Newsletter. Learn more by clicking here. Completely reviewed and updated on **May 25, 2022**; 18 pages; 564KB PDF. © 2009 – 2022 Marcus P. Zillman, M.S., A.M.H.A.

Updated> Internet Experts 2022
http://www.InternetExperts.info/
Internet Experts 2022 is a Subject Tracer™ Information white paper created and designed by the Virtual Private Library for monitoring resources and sites on the internet for experts in every field and is freely available. This has been updated and it is a 22-page .pdf document (854KB). Updated **May 26, 2022.**

Updated> Internet-of-Things (IOT) Resources 2022
http://www.Internet-of-Things.ws/
A resources listing of the Internet-of-Things (IoT) 2022. It is estimated within the next years that almost everything will be connected to the Internet (trillion upon trillion) and these are the resources and sites that will make this all possible. Visit this resource to see the real future of the Internet and the Internet-of-Things!! [15 pages; 482KB PDF] Completely updated with all links validated on **May 27, 2022.**

Updated> Intrapreneurial Resources 2022
[Download Intrapreneurial Resources 2022 White Paper Link Compilation]
Intrapreneurial Resources 2022 (IntrapreneurialResources.info) is a Subject Tracer™
Information Blog developed and created by the Virtual Private Library™. It is designed
to monitor intrapreneurial resources on the World Wide Web and listed below. We
always welcome suggestions of additional sites and resources to be added to this
comprehensive listing and please submit by clicking here. This site has been developed
and maintained by Marcus P. Zillman, M.S., A.M.H.A.; Internet expert, author, keynote
speaker, and consultant. His latest white papers include *Searching the Internet
2022*, *Academic and Scholar Search Engines and Sources 2022*, and *Knowledge
Discovery Resources 2022*. All of his Subject Tracer™ Information Blogs and his white
papers are available from WhitePapers.us. His latest monthly column is available by
clicking here. Subscribe to his free monthly **Awareness Watch™** Newsletter. Learn
more by clicking here. Completely reviewed and updated on **May 28, 2022**; 14 pages;
521KB PDF. © 2015 – 2022 Marcus P. Zillman, M.S., A.M.H.A.

LLRX> Web Guide for the New Economy
https://www.llrx.com/2022/04/web-guide-for-the-new-economy-2022-2/
Accurate and actionable data on the economy is critical to many aspects of our research
and scholarship. This guide by research expert **Marcus P. Zillman** provides researchers
with links to information on a range of sources focused on new economy data and
analysis from the public and private sectors, as well as scholarly work, news, government
information, reports and alerts. Many of these sources should find a place in your
customized research toolkit. The sites recommended in this guide are all free to use, and
they are published by advocacy, government, corporate, academic, international financial
groups and research experts. Many of the sites are updated on a regular basis, so it is
recommended that you use RSS feeds or alerts to remain abreast of changes. The PDF is
freely available by clicking here.

Updated> Journalism Resources 2022
[Download Journalism Resources 2022 White Paper Link Dataset Compilation]
Journalism Resources 2022 (JournalismResources.info) is a Subject Tracer™ Information
Blog developed and created by the Virtual Private Library™. It is designed to monitor
journalism resources on the World Wide Web and listed below. We always welcome
suggestions of additional sites and resources to be added to this comprehensive listing
and please submit by clicking here. This site has been developed and maintained by
Marcus P. Zillman, M.S., A.M.H.A.; Internet expert, author, keynote speaker, and
consultant. His latest white papers include *Searching the Internet 2022*, *Academic and
Scholar Search Engines and Sources 2022*, and *Knowledge Discovery Resources 2022*.
All of his Subject Tracer™ Information Blogs and his white papers are available from
WhitePapers.us. His latest monthly column is available by clicking here. Subscribe to his
free monthly **Awareness Watch™** Newsletter. Learn more by clicking here. Completely
reviewed and updated on **May 30, 2022**; 25 pages; 844KB PDF. © 2007 – 2022 Marcus
P. Zillman, M.S., A.M.H.A.

Updated> Manage Information Overload Resources 2022
http://whitepapers.VirtualPrivateLibrary.net/Managing_Information_Overload_Resources.pdf
http://www.ManageInformationOverload.info/
Manage Information Overload Resources 2022 by Marcus P. Zillman, M.S., A.M.H.A., is a white paper listing the many excellent resources available from the Internet for managing information overload that is a happening event in today's New Economy and New Normal world. A *must read* for all to keep ahead in today's exciting and ever changing universe of Internet and Social happenings! It was updated on **May 31, 2022** and is now a 17-page 405KB PDF freely available directly from the above URL.

Awarenesswatch™ Paper Review

Does the Rising Tide of OER Lift All Boats? by *Candice Vander Weerdt*
https://firstmonday.org/ojs/index.php/fm/article/view/12283/10610

Abstract:
While open education resources (OER) have grown in popularity over the last few years, few researchers have considered the benefits of OER adoption beyond direct student benefits. Stakeholder theory argues there is merit in identifying value for several interconnected groups, in this context the institution and instructors. Using a quasi-experimental research design, I evaluated the effect of OER adoption on instructor benefits and institutional rewards, as well as multiple student outcomes. I found student satisfaction, perceptions of quality, and academic integrity were significantly related to OER adoption. While relationships to the other outcomes, notably of direct instructor benefits, were not supported. These findings reveal the benefits of OER adoption are not realized for all stakeholders.

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.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/

27

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Awareness Watch V20N6 June 2022 Newsletter
http://www.AwarenessWatch.com/
zillman@VirtualPrivateLibrary.com
eVoice: 239-206-3450
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Education and Academic Resources
http://www.EducationResources.info/

Elder Resources
http://www.ElderResources.info/

Employment Resources
http://www.EmploymentResources.info/

Entrepreneurial Resources
http://www.EntrepreneurialResources.info/

Fact Checkers Resources
http://www.FactCheckers.us/

Financial Sources
http://www.FinancialSources.info/

Finding People
http://www.FindingPeople.info/

Games Resources
http://www.GamesResources.info/

Genealogy Resources
http://www.GenealogyResources.info/

Grant Resources
http://www.GrantResources.info/

Green Files
http://www.GreenFiles.info/

Grid, Distributed and Cloud Computing Resources
http://www.GridResources.info/

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

Information Futures Markets
http://www.InformationFuturesMarkets.com/

Information Quality Resources
http://www.InformationQualityResources.info/

28

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
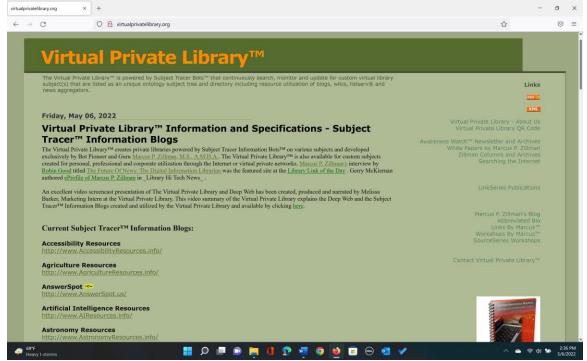http://www.WWWReference.info/

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 2022 by Marcus P. Zillman
http://www.WhitePapers.us/

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/

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.:

2022 Directory of Directories
http://www.2022DirectoryOfDirectories.com/

2022 Guide to Finding Experts by Using the Internet
http://www.FindingExperts.info/

2022 Guide to Finding People Resources and Sites
http://www.FindingPeople.info/

2022 Guide to Internet Privacy Resources and Tools
http://www.2022InternetPrivacy.com/

2022 Guide to Searching the Internet
http://www.SearchingTheInternet.info/

2022 New Economy Resources
http://www.2022NewEconomy.com/

Academic and Scholar Search Engines and Sources 2022
http://www.ScholarSearchEngines.com/

Bots, Blogs and News Aggregators 2022
http://www.BotsBlogs.com/

Business Intelligence Online Resources 2022
http://www.BIOnlineResources.com/

Cloud Computing Resources Primer 2022
http://www.zillman.us/white-papers/grid-distributed-and-cloud-computing-resources-primer/

Current Awareness Tools 2022
http://www.CurrentAwarenessTools.com/

Deep Web Research and Discovery Resources 2022 Online White Paper
http://DeepWeb.us/

eMarketing MiniGuide 2022
http://www.eMarketingMiniGuide.com/

eReference Library Link Toolkit 2022
http://www.eReferenceLibrary.com/

Finding Experts By Using the Internet 2022
http://www.FindingExperts.info/

Finding People Resources and Sites 2022
http://www.FindingPeople.info/

Healthcare Bots and Subject Directories 2022
http://www.HealthcareBots.info/

Knowledge Discovery Resources 2022
http://www.KDResources.info/

New Economy Resources 2022
http://www.NewEconomyResources.com/

Online Research Browsers and Data Visualization Tools 2022
http://www.zillman.us/white-papers/online-research-browsers/

Online Research Tools 2022
http://www.OnlineResearchTools.info/

Online Social Networking 2022
http://www.OnlineSocialNetworking.info/

Searching the Internet 2022
http://www.SearchingTheInternet.info/

Using the Internet As a Dynamic Resource Tool for Knowledge Discovery 2022
http://www.zillman.us/white-papers/using-the-internet-as-a-dynamic-resource-tool-for-knowledge-discovery/

Web Data Extractors 2022
http://www.WebDataExtractors.com/

Web Guide for the New Economy 2022
http://www.WebGuideNewEconomy.com/

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/
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 availanle 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

35

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.