

Web Data Extractors

A White Paper Link Compilation

By

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Extracting data from the World Wide Web (WWW) has become an important issue in the last few years as the number of web pages available on the visible Internet has grown to over 20 billion pages with over 1 trillion pages available from the invisible web. Tools and protocols to extract all this information have now come in demand as researchers as well as web browsers and surfers want to discovery new knowledge at an ever increasing rate! As robots (bots) and intelligent agents are at the heart of many extraction tools I decided to create a compilation of the latest sources and sites that extract information from the web. There are a number of eMail extraction tools still available through the Internet and I have decided not to list these as they aid to the on-going and increasing problem of SPAM except for a readily available Google™ Directory listing:

Web Data Extractors:

140kit - Free Open Source Twitter Analytics Platform
<http://140kit.com/>

80legs - Powerful and Economical Service Platform for Crawling and Processing Web Content
<http://www.80legs.com/>

Anomic HTTP Proxy
<http://freshmeat.net/releases/173068/>

Anthracite
<http://freshmeat.net/projects/anthracite/>

Automated RSS Scraper Scripts
<http://www.djeaux.com/rss/>



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

Automation Anywhere – Web Data Extraction Software
<http://www.automationanywhere.com/solutions/webDataExt.htm>

Beautiful Soup
<http://freshmeat.net/projects/beautifulsoup/>

Beautiful Soup - HTML/XML Parser for Quick Turnaround Screen Scraping and Web
Data Extraction
<http://www.crummy.com/software/BeautifulSoup/>

BLIASoft Knowledge Discovery
<http://www.bliasoft.com/Eindex.html>

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

BYU Data Extraction Research Group
<http://www.deg.byu.edu/>

Captiva Software: Digital Information Capture Software
<http://www.captivasoftware.com/index.asp>

ChartSearch Data Search Technology
<http://www.ChartSearch.net/>

Client-Side Deep Web Data Extraction
<http://www.tic.udc.es/~mad/publications/ceceast2004.pdf>

Connotate - Intelligent Agent Technology and Business Intelligence Tools
http://www.connotate.com/intelligent_software_agents.aspx

ContextMiner - Tools to Collect Data, Metadata and Contextual Information
<http://www.contextminer.org/>



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cQuery - Content Query Engine

<http://cquery.com/>

Crowbar – Open Source Web Scraping Environment

<http://simile.mit.edu/wiki/Crowbar>

Dapper - Extract and Use Website Information for Mashups

<http://www.dappit.com/index.php>

Data Extraction Services

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

Data Extractors and Pass-Through Systems – A Selected List

<http://www.chass.utoronto.ca/datalib/misc/dli/extracts.htm>

Data Extractors – Special Report

<http://snipurl.com/8flw>

Data Mining Resources

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

DataWrangler - Data Cleaning and Transformation Tool

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

Deep Web Research

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

DiscoverText - Import, Sort, Distribute and Analyze Electronic Content from eMail, Document Repositories, and Social Media

<http://discovertext.com/>

Effective Web Data Extraction with Standard XML Technologies

<http://www10.org/cdrom/papers/102/>

eGrabber - Data Capture Tools

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

ExtractData Technologies - SearchExtract Software

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

Extracting Knowledge

http://www.intelligentkm.com/feature/010507/feat1.jhtml?_requestid=185742



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FeedsAPI - Extract Content from Web Pages Tool
<http://www.feedsapi.com/>

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

Fetch Live Access
<http://www.fetch.com/>

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

File Information Tool Set (FITS)
<http://code.google.com/p/fits/>

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

Happy Harvester – Advanced Web Data Extractor
<http://www.happyharvester.com/>

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

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/>

Information Retrieval Resources
<http://www-csli.stanford.edu/~hinrich/information-retrieval.html>

InfoSquire – Web Data Extraction
<http://www.InfoSquire.com/>

Introduction to Information Retrieval
<http://informationretrieval.org/>

iOpus® Internet Macros™
<http://www.iopus.com/iim.htm>



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

iWebMiner – Web Data Mining and Content Scraping
<http://www.iwebminer.com/>

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

Kapow RoboSuite Platform - Solutions for Data Collection
<http://www.kapowtech.com/>

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

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

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

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

Lingway
<http://www.lingway.fr/en/>

Mastering Data Extraction
<http://www.dbmsmag.com/9606d05.html>

Metadata Extraction Tool
<http://meta-extractor.sourceforge.net/>

mnot: xpath2rss - HTML->RSS scraper
<http://www.mnot.net/xpath2rss/>

Mozenda – Comprehensive Web Data Gathering
<http://www.mozenda.com/>

Newprosoft – Web Data Extraction Software
<http://newprosoft.com/>



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NewsClipper.com - Snip and Ship Dynamic News Content to Your Web Pages
<http://www.newsclipper.com/>

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

Professional Web Data Extraction and Web Data Mining Solutions and Services
<http://www.web-extraction.com/>

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

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

ScrapeForge
<http://freshmeat.net/projects/scrapeforge/>

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

ScrapePro – Universal Web Scraper Platform
<http://scrapepro.com/>

Scraper
<http://freshmeat.net/projects/scraper/>

ScraperWiki - Community of Programmers Sifting Information To Give You the Edge
<https://scraperwiki.com/>

Scrapy – Open Source Web Scraping Framework for Python
<http://scrapy.org/>

Screen-Scraper
<http://freshmeat.net/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>



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Screen Snarfs - Darkspell: Perl Code for Screen Scrapers
<http://www.darkspell.com/gadgets/snarfs/>

Search and Replace with TextPipe Pattern Matching
<http://www.crystalsoftware.com.au/textpipe.html>

Social Science Data Extractors
<http://www.ssc.wisc.edu/cde/datalib/extract.htm>

Text Mining and Web-Based Information Retrieval Reference
http://filebox.vt.edu/users/wfan/text_mining.html

Unit Miner - Web Data Extraction Software
<http://www.qualityunit.com/unitminer/web-extraction-tool.html>

URL Link Extractor
<http://www.fuddyduddy.connectfree.co.uk/urlgen.htm>

Visual Web Spider
<http://www.newprosoft.com/>

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

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

Web Data Extraction Deamon
<http://webdatascraper.net/>

Web Data Extraction Software
<http://www.tethyssolutions.com/web-data-extraction.htm>

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

Web Data Extractors
<http://www.webextractors.com/>

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



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Web Data Mining

http://www.blossom.com/web_mining.html

Web Grabber

http://www.ficstar.com/web_grabber.html

Web-Harvest – Open Source Web Data Extraction Tool

<http://web-harvest.sourceforge.net/index.php>

Web Mining and Unstructured Data Management Solutions – QL2 Software

<http://www.ql2.com/>

WebQL

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

WebScraper Plus +

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

Website Extractor

<http://www.hot-shareware.com/internet-tools/website-extractor/>

Website Extractor – Offline Browser

<http://www.internet-soft.com/extractor.htm>

Website Scraping

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

Web Spider, Link Extraction, And Other Extractor Products

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

WebSunDew – Advanced Web Scraping Tool

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

Wikimedia Public Data Dumps

http://meta.wikimedia.org/wiki/Data_dumps

Words, Extended - Internet Text Information Rretrieval, Extraction and Display Bot

http://home.earthlink.net/~glenn_scheper/

XRay Web Scraping Tool

<http://freshmeat.net/projects/xrayguibasedwebscrapingtool/>



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Subject Tracer™ Information Blogs

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

Virtual Private Library™

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

Agriculture Resources

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

AnswerSpot

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

Artificial Intelligence Resources

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

Astronomy Resources

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

Auction Resources

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

Biological Informatics

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

Biotechnology Resources

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

Bot Research

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

Business Intelligence Resources

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

ChatterBots

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



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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/>

Elder Resources

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

Employment Resources

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

Entrepreneurial Resources

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

Fact Checkers Directory

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

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/>



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Grid, Distributed and Cloud Computing Resources

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

Healthcare Resources

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

Information Futures Markets

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

Information Quality Resources

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

International Trade Resources

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

Internet Alerts

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

Internet Demographics

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

Internet Experts

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

Internet Hoaxes

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

Intrapreneurial Resources

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

Journalism Resources

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

Knowledge Discovery

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

Military Resources

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

New Economy Analytics, Resources and Alerts

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



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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.WcriptResources.info/>

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

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

Statistics Resources
<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/>



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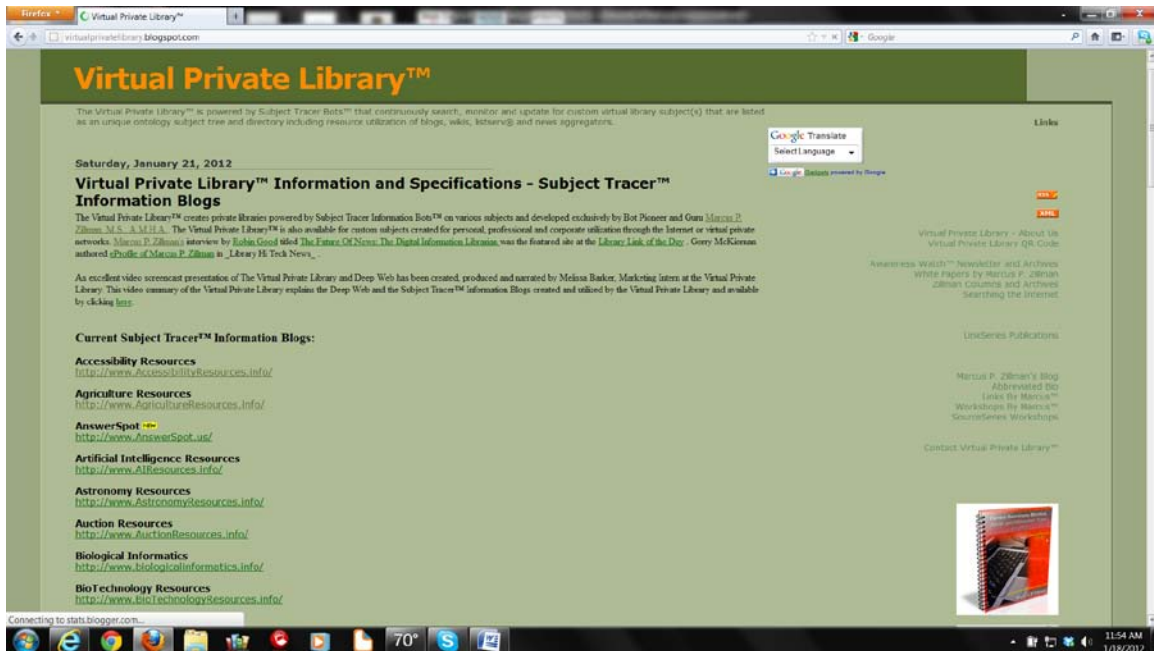


Figure 1: Virtual Private Library™

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 53 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

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

Marcus P. Zillman Abbreviated Bio

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

White Papers by Marcus P. Zillman

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



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

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

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

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

Internet Sources™ Manual
<http://www.InternetSources.info/>

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.:**

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

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

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



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Cloud Computing Resources Primer

<http://zillman.blogspot.com/2011/05/grid-distributed-and-cloud-computing.html>

Current Awareness Discovery Tools on the Internet

<http://zillman.blogspot.com/2009/08/current-awareness-discovery-tools-on.html>

Deep Web Research 2012 Article - LLRX and Online White Paper

<http://zillman.blogspot.com/2011/02/llrx-february-2011-issue-deep-web.html>

<http://DeepWeb.us/>

eReference Library Link Toolkit

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

Finding Experts By Using the Internet

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

Finding People Resources and Sites

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

Healthcare Bots and Subject Directories

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

Knowledge Discovery Resources 2012

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

Online Research Browsers

<http://zillman.blogspot.com/2009/08/online-research-browsers.html>

Online Research Tools

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

Online Social Networking

<http://zillman.blogspot.com/2009/08/online-social-networking.html>

Searching the Internet

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

Using the Internet As a Dynamic Resource Tool for Knowledge Discovery

<http://zillman.blogspot.com/2009/08/using-internet-as-dynamic-resource-tool.html>

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

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

Internet Tutor by Marcus P. Zillman, M.S., A.M.H.A.
<http://www.InternetTutor.info/>

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

Internet Speaking by Marcus P. Zillman, M.S., A.M.H.A.
<http://www.InternetSpeaker.net>

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

Internet Consulting by Marcus P. Zillman, M.S., A.M.H.A.
<http://InternetConsultant.BlogSpot.com/>

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

Current Awareness Monitors, Alerts and Information Traps for 2010
<http://www.ecurrentAwareness.com/>

Marcus P. Zillman's latest report Current Awareness Monitors, Alerts and Information Traps for 2010 is now available for purchase online and for immediate download. This report is a comprehensive listing of the latest resources, sources and sites for current awareness on the Internet. This is a must read for anyone who must stay current in their profession and/or business activity as the list of URLs will keep you at the leading edge of your career.

Market Intelligence Resources 2010
<http://www.MarketIntelligenceResources.com/>

Marcus P. Zillman's just released professional Internet MiniGuide is titled Market Intelligence Resources 2010 and is now 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



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available on the Internet with many of them freely available! Designed specifically for today's entrepreneur, professional and/or investor.

Entrepreneurial Links 101

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

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

Internet Privacy and Security Resources

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

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

Research Resources Online Guide

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

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

The Survivor's Manual for The New Economy.

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

Marcus P. Zillman's latest LinkSeries Publication is a 239 page digital read that gives excellent resources and annotated sources for the new economy analytics, alerts, ecommerce, financial sources, invisible and deep web resources, social and business networking sources along with new economy competitive and business intelligence resources and an extremely comprehensive listing of new economy online tools.



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