

Content Syndication mit RSS und ATOM

Das Problem

- Wie kann ich tausende Websites im Auge behalten?
- Mein Chef gab mir dieses TODO und ich habs nicht mitgekriegt.

Das Prinzip

- **Syndication:** Eine Application teilt Daten mit einer anderen Applikation
- **Aggregation:** Zusammenfuehren von geteilten Daten.

Indirekte Aggregation

- Software erstellt neuen Inhalt aus aggregierten Inhalten
- Service Provider waehlt die Quellen aus
- Benutzer sieht nur das Endergebnis

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Top Stories U.S.

Turkey drops charges against novelist Pamuk

Times Online - 3 hours ago
A Turkish court today dropped charges against Orhan Pamuk, an internationally acclaimed novelist, his lawyer said. The move ends a high-profile trial that outraged European Union officials and provoked questions over Turkey's commitment to free speech. ...
[Turkey drops controversial Pamuk case](#) EUobserver.com
[Turkish court drops charges against novelist](#) Independent
[BBC News](#) - [International Herald Tribune](#) - [Guardian Unlimited](#) - [AKI](#) - [all 210 related »](#)



Sydney Morning Herald

Building collapses in Kenya; 50 injured

Bradenton Herald - 18 minutes ago
NAIROBI, Kenya - A building collapsed Monday in central Nairobi with more than 200 people were inside, injuring more than 50, witnesses and hospital officials said. Dozens of rescuers dug in the rubble with ...
['50 injured' in Nairobi collapse](#) CNN International
[Many hurt as Kenya building falls](#) BBC News
[USA Today](#) - [Forbes](#) - [all 19 related »](#)

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- Livdoor CEO arrested**
[International Herald Tribune](#) - [all 700 related »](#)
- Google vs the US Government**
[iAfrica.com](#) - [all 410 related »](#)
- Steelers' road rage leads them to Super Bowl XL**
[Beaver County Times](#) - [all 2,116 related »](#)
- West Wing is leaving office; Book of Daniel likely dead**
[Ottawa Citizen](#) - [all 379 related »](#)
- France investigates possible human bird flu case**
[Telegraph.co.uk](#) - [all 292 related »](#)

In The News

- [Evo Morales](#) [Marcos Baghdatis](#)
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- [Scott Verplank](#) [Annika Sorenstam](#)
- [Ibrahim Rugova](#) [Sonia Gandhi](#)
- [Cavaco Silva](#) [Kobe Bryant](#)

World »

[edit](#)

Russia, Georgia Trade Insults, Blame Over Gas Pipeline Bombings

Bloomberg - 2 hours ago
Jan. 23 (Bloomberg) -- Russia and Georgia traded blame and insults after bombings of a natural gas pipeline and an electricity cable on the Russian side of their border cut heat and power supplies to the smaller of the former Soviet states. ...
[Azerbaijan Supplies Gas to Georgia](#) ABC News
[Georgian leader attacks Russia after gas blasts](#) Guardian Unlimited
[Financial Times](#) - [CNN International](#) - [ISN](#) - [Channel 4 News](#) - [all 454 related »](#)



CTV.ca

Britain Rejects Russian TV Report Diplomats Spied in Moscow

Bloomberg - 1 hour ago
Jan. 23 (Bloomberg) -- The British government rejected a report by Russian state-owned television that four British diplomats were spying in Moscow. Rossiya television today said British agents had placed



New

U.S. »

ABORTION: One big decision, one big debate

Grand Forks Herald - 6 hours ago
By Stephen J. Lee. Raped and pregnant at 17, a senior in high school in a small northwestern Minnesota town, Staci Jenson had some big decisions to make. She made what might seem a surprising decision, in light ...
[Emotion builds for new battle on Roe](#) Miami Herald
[Abortion activists mark Roe v.Wade anniversary](#) Pioneer Press
[Enter Stage Right](#) - [WJET](#) - [WIVB](#) - [Naples Daily News \(subscription\)](#) - [all 608 related »](#)



Washing

Calls Go Out for Upgrades in Mine Safety

New York Times - 8 hours ago
By THE ASSOCIATED PRESS. CHARLESTON, W.Va., Jan. 22 (AP) - In the wake of the deaths of 14 West Virginia coal miners in two recent accidents, labor, industry and lawmakers are calling for improvements in mining safety



Direkte Aggregation

- Benutzer bestimmt, was aggregiert werden soll.
- Bloglines, Firefox, RSS Owl, my.yahoo.com, ...



Search



Update

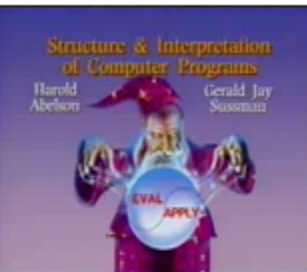
Source	Podcast	Time	Release Date	Description
Library	▼ Antarctica 2005		20.01.2006	Dr. Melchior berichtet per S
Podcasts	<input type="checkbox"/> Danke	2:44	20.01.2006	Ich möchte heute allen dan
Videos	<input type="checkbox"/> Zurück in Wien	4:41	15.01.2006	Der letzte Tag in Punta Are
Party Shuffle	<input checked="" type="checkbox"/> Zurück in Punta Arenas	7:34	05.01.2006	Am 29.11 haben wir die me
Radio	<input checked="" type="checkbox"/> Die Südpolstation	7:24	04.01.2006	Uns geht es sehr gut. Wir s
Music Store	<input checked="" type="checkbox"/> Rückblick – die letzten 3 Tage	5:02	29.12.2005	Der 24. Tag war ein unglau
My Top Rated	<input checked="" type="checkbox"/> Es ist geschafft! - Weltrekord in 33 Tagen zum Südpol!	4:18	29.12.2005	Es ist geschafft! Es ist mir
rated songs	<input checked="" type="checkbox"/> Wieder einen Schritt näher zum Weltrekord	13:51	23.12.2005	Wir befinden uns momentan
Recently Added	<input checked="" type="checkbox"/> Es läuft perfekt	3:38	19.12.2005	Heute haben wir wieder 30
Recently Played	<input checked="" type="checkbox"/> Noch 350 km zum Südpol	3:03	16.12.2005	Es geht uns hervorragend,
Top 25 Most Played	<input checked="" type="checkbox"/> Durch Sastrugi Felder	3:15	14.12.2005	Wir haben bereits eine Mer
november favs	▼ ITC: All Programs		22.01.2006	Network-Wide Feed
On-The-Go 1	<input type="checkbox"/> Ray Ozzie, Yusuf Mehdi & Gary Flake: A Conversation about Microsoft	38:52	22.01.2006	The dominant force in the it
On-The-Go 2	<input type="checkbox"/> Robert Trivers: What Do We Know	42:29	21.01.2006	People lie. We lie to each o
Smooth Jazz	<input type="checkbox"/> Scott Sigler: Voices In Your Head	34:17	20.01.2006	Scott Sigler's first novel, Ea
sounds	<input type="checkbox"/> Tiffany Schlain: Tech Nation	22:33	19.01.2006	Dr. Moira Gunn speaks with
study mix 1	<input type="checkbox"/> Dr. Kari Stefansson: BioTech Nation	9:49	19.01.2006	Dr. Moira Gunn speaks with
tv themes	<input type="checkbox"/> Joan Walsh: Tech Nation	22:50	19.01.2006	Dr. Moira Gunn speaks with
untitled playlist	<input type="checkbox"/> IT Conversations News: January 17, 2006		18.01.2006	(Hear the MP3 version with
	<input checked="" type="checkbox"/> Joichi Ito: The Future of Blogging	30:15	17.01.2006	The Internet is truly becom
	<input type="checkbox"/> Zach Warren: Laughter in a Time of War	22:24	16.01.2006	In the Fall of 2005, Zach se
	<input type="checkbox"/> Daniel Golding and Trent Henry: Security and Network Perspectives on Spam	37:58	15.01.2006	Spam is a daunting challeng
	<input type="checkbox"/> Ben Laurie: Apache and SSL	26:41	14.01.2006	Security vulnerabilities are
	<input type="checkbox"/> Kim Stanley Robinson: Tech Nation	22:37	13.01.2006	Dr. Moira Gunn speaks with
	<input type="checkbox"/> Scott Ritter: Tech Nation	21:23	13.01.2006	Dr. Moira Gunn interviews S
	<input type="checkbox"/> Dr. Prathima Archarya: BioTech Nation	10:33	13.01.2006	Dr. Moira Gunn speaks with
	<input type="checkbox"/> Lynn Fritz: Using Supply Chain Innovations to Save Lives	40:27	12.01.2006	A few days after hurricane
	<input type="checkbox"/> Jamais Cascio: Personal Memory Assistants	28:33	11.01.2006	More and more people are
	<input type="checkbox"/> What is a Sustainable Business for Data?: Where 2005	33:41	10.01.2006	Thanks to the internet, pec
	<input type="checkbox"/> Saul Klein: Larry's World	21:04	09.01.2006	Voice over IP is a technolog
	▶ ITC: Programming	51:29	12.06.2005	IT Conversations Topic Fee
	▼ mindestens haltbar - podcast			Der Podcast zum Magazin f

Podcast Directory

Report a Concern

Unsubscribe

Settings...



RSS – Simple Syndication

- Netscape(1999)
- Hat sich sehr schnell verbreitet (dank Weblogs)
- Nicht nur fuer Text (Podcasting, Videocasting)

RSS 2.0

```
<?xml version="1.0"?>
<!-- RSS generated by Radio UserLand v8.0.5 on 9/30/2002; 4:00:00 AM Pacific -->
<rss version="2.0" xmlns:blogChannel="http://backend.userland.com/blogChannelModule">
  <channel>
    <title>Scripting News</title>
    <link>http://www.scripting.com/</link>
    <description>A weblog about scripting and stuff like that.</description>
    <language>en-us</language>
    <blogChannel:blogRoll>
      http://radio.weblogs.com/0001015/userland/scriptingNewsLeftLinks.opml
    </blogChannel:blogRoll>
    <item>
      <description>Joshua Allen:
      <a href="http://www.netcrucible.com/blog/2002/09/29.html#a243">
        Who loves namespaces?</a></description>
      <pubDate>Sun, 29 Sep 2002 19:59:01 GMT</pubDate>
      <guid>
        http://scriptingnews.userland.com/backissues/2002/09/29#When:12:59:01PM
      </guid>
    </item>
  </channel>
</rss>
```

ATOM

- Sam Ruby (2003)
- Komplexer?
- Nicht nur Syndication (Webserives ?)

ATOM 1.0

```
<?xml version="1.0"?>
<feed xmlns="http://www.w3.org/2005/Atom"
      xml:lang="en"
      xml:base="http://www.example.org">
  <id>http://www.example.org/myfeed</id>
  <title>My Simple Feed</title>
  <updated>2005-07-15T12:00:00Z</updated>
  <link href="/blog" />
  <link rel="self" href="/myfeed" />
  <entry>
    <id>http://www.example.org/entries/1</id>
    <title>A simple blog entry</title>
    <link href="/blog/2005/07/1" />
    <updated>2005-07-15T12:00:00Z</updated>
    <summary>This is a simple blog entry</summary>
  </entry>
  <entry>
    <id>http://www.example.org/entries/2</id>
    <title />
    <link href="/blog/2005/07/2" />
    <updated>2005-07-15T12:00:00Z</updated>
    <summary>This is simple blog entry without a title</summary>
  </entry>
</feed>
```

Ubiquitär

- **Apple:** iTunes & IWeb: Podcasting, Photocasting, Videocasting
- **Google:** news.google.com, reader.google.com, blogsearch.google.com, ...
- **IBM:** Intranet Collaboration ueber weblogs und RSS
- **Microsoft:** RSS Support fuer Longhorn/Vista
- **Mozilla Foundation:** RSS Support in firefox, Thunderbird seit 1.0.
- **Yahoo:** RSS Abonnements in my.yahoo

Tool Support (1)

- Universal Feed Parser (Python)
- ROME (Java)
- .NET support mit WinFX
- Feedtools (Ruby)

Tool Support (2)

```
feed = FeedTools.build_merged_feed([  
    'http://news.google.de/?output=atom',  
    'http://del.icio.us/rss/',  
    'http://rss.orf.at/news.xml',  
    'http://www.heise.de/newsticker/heise-atom.xml'])  
  
puts feed.xml
```

Das wars.