

Defining Web 2.0

- Web 2.0 refers to a perceived second generation of Web-based communities and hosted services
 - Began with a conference brainstorming session between O'Reilly and MediaLive International in 2004
 - "Web 2.0 is the understanding that the network <u>is</u> the platform...the rules for business are different. And the cardinal rule is this one, <u>users add value</u>."

– Tim O'Reilly Kamla Bhatt Show - Tim O'Reilly on What is Web 2.0? http://www.youtube.com/watch?v=CQibri7gpLM

- Transition of Web sites from isolated information silos to interlinked computing platforms that act like software to the user
- Includes a social element where users generate and distribute content, often with freedom to share and re-use

(http://en.wikipedia.org/wiki/Web_2)

Benefits of Web 2.0 Technologies

- Provides a significant enhancement over read-only, static Web sites that are not interactive
 - Ask.com Commercial
 "Can your search engine do this?"
 http://uncutvideo.aol.com/videos/329b90013f6bc1d8404b4d2a62f5237d
 - Web 2.0...The Machine is Us/ing Us (Michael Wesch, Kansas State University) http://www.youtube.com/watch?v=NLIGopyXT_g
- Information Sharing
 - RSS Feeds
 - Syndicated updated without the confusion of mass e-mail notifications
 - Alerts users of new content, including podcasts and videocasts (also called "vodcasts"); Media sharing
 - Wikis
 - Internal and/or external collaboration
 - Blogs
 - Allows on-the-fly posts and comments without knowledge of HTML

Defining Blogs

- A blog (derived from "Web log" or "Weblog")
 - Entries are written in chronological order and displayed in reverse order
 - Combines text, images, and links to other blogs, Web pages, and other media related to its topic
- Browser-based software is commonly used for "blogging"
 - Blogs can be hosted by dedicated blog hosting services
 - Can be run using blog software, such as WordPress

Defining RSS

- RSS is a family of Web feed formats used to publish frequently updated content such as blog entries, news headlines or podcasts
 - Really Simple Syndication (RSS 2.0) format
 - Summary or the full text of content from an associated Web site
 - Automated updates that are easier than checking individual sites manually
- RSS content can be read using a standalone software called an RSS reader or built-in browser RSS readers
 - Users may subscribe to RSS feeds easily
 - RSS reader checks the subscribed feeds regularly for new content

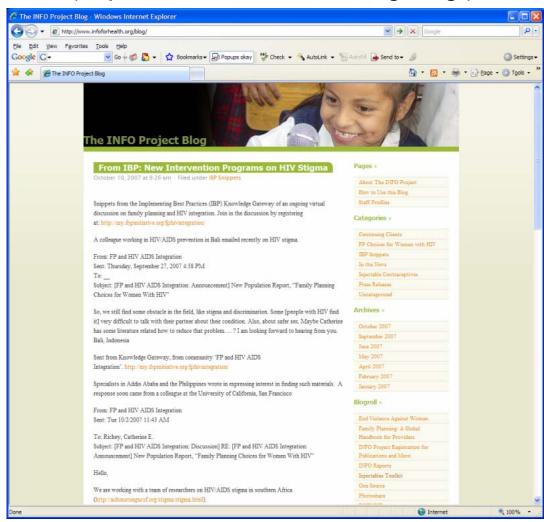
(http://en.wikipedia.org/wiki/RSS_(file_format))

The INFO Project at Johns Hopkins

- Based at the Johns Hopkins Bloomberg School of Public Health's Center for Communication Programs
 - Envisions a world of interconnected communities where shared reproductive health information improves and saves lives
- Two aspects of Web 2.0 are deemed essential to realizing the INFO Project's vision—
 - Blogs
 - Gives INFO's consumers the ability to share views and experiences on various topics that directly impact human health
 - RSS feeds
 - Allows INFO to share modifications to their flagship database of six different resources including bibliographic records of latest research in the field of Family Planning and Reproductive Health

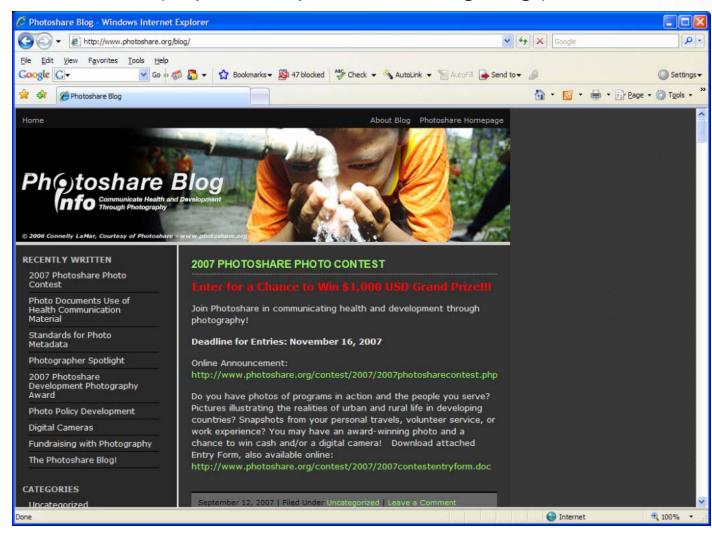
INFOforHealth Blogs

(http://www.infoforhealth.org/blog/)

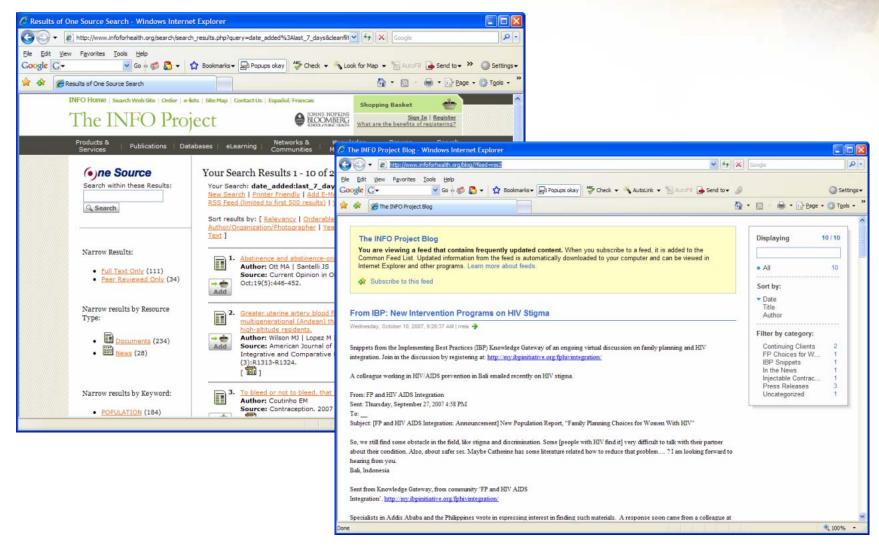


Photoshare Blog

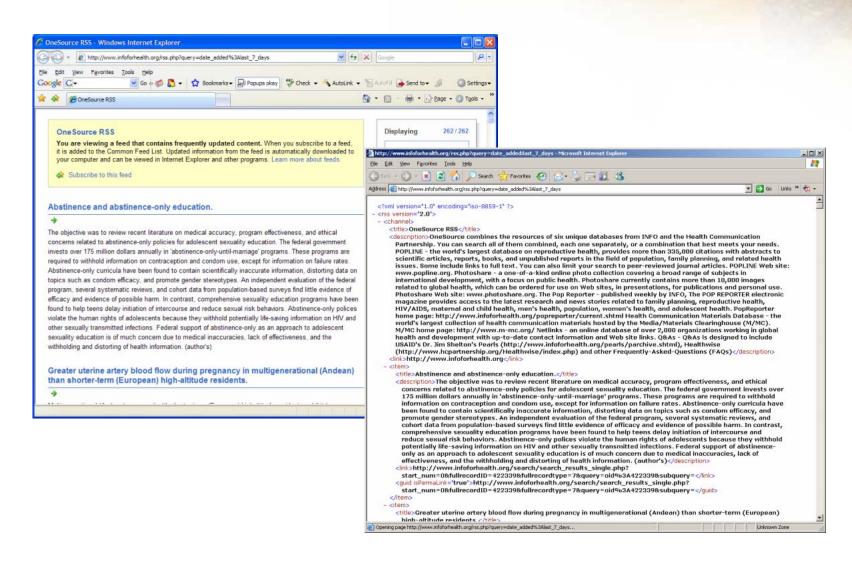
(http://www.photoshare.org/blog/)



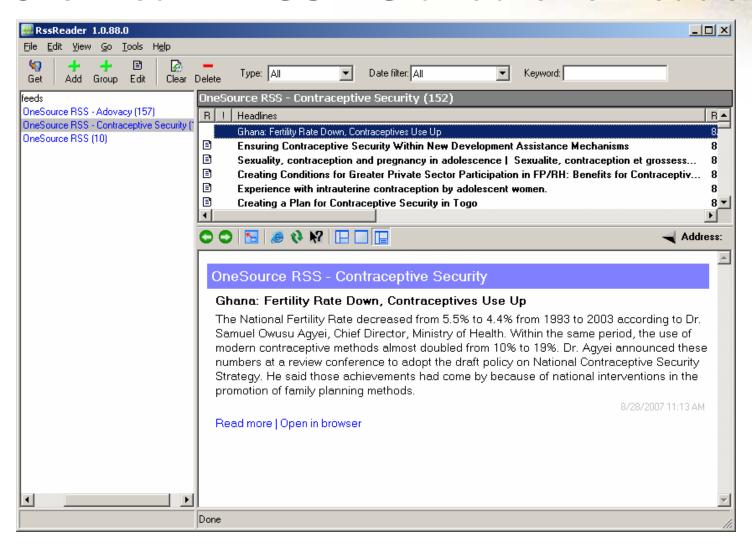
INFOforHealth RSS and Blog RSS



INFOforHealth RSS -Browser Reader and XML



INFOforHealth RSS - Standalone Reader



National Institutes of Health / NIGMS

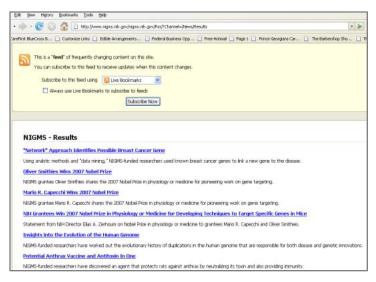
- National Institute of General Medical Sciences (NIGMS)
 - One of the National Institutes of Health
 - Supports research that is the foundation for disease diagnosis, prevention, and treatment
 - Uses communication tools to promote the institute's vision and goals
 - Aspects of Web 2.0 essential for vision
 - RSS
 - Podcasts/Vodcasts



NIGMS - RSS Feeds

- NIGMS currently maintains five RSS feeds on their site (indicated by the seed icon)
 - New on the NIGMS Web Site
 - Results
 - E-newsletters
 - Biomedical Beat
 - Feedback Loop
 - Minority Programs Update
- NIGMS RSS Feeds and Help http://www.nigms.nih.gov/RSS

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Defining Podcasts / Vodcasts

- A podcast is a digital recording made available online or for download to an MP3 player and via RSS
- A video podcast or "vodcast" is a video distributed online in the same manner
 - Recent NIGMS Nobel Prize podcast and vodcast



Podcast Jeremy Berg on Nobel Prizes

Interview with NIGMS Director about Nobel Prizes to NIGMS grantees (October 2, 2007)

NIGMS - Computing Life

- Newest NIGMS science education booklet
 - Showcases the exciting ways that scientists are using the power of computers to expand our knowledge of biology and medicine
- Computing Life

http://publications.nigms.nih.gov/computinglife/

- HTML version includes Web extras
- Features material like movies, podcasts, and "other cool stuff" only available online



Defining Wikis

- A Wiki allows users to easily create and edit collaborative Web sites; "Wiki" is the Hawaiian word for fast
- NIH Wiki Workgroup
 - Established to understand potential applications of wikis within the NIH community
 - NIH Wiki Fair, February 2007
 - Video: http://videocast.nih.gov/ram/wiki022807.ram
- Collaboration
 - Wikis at NIH
 http://enterprisearchitecture.nih.gov/About/NewsEvents/News/WikisAtNIH.htm
 - COLAB: Collaborative Work Environment Community Wiki http://colab.cim3.net/cgi-bin/wiki.pl
 - Brainstorming Web 2.0 at NIH http://colab.cim3.net/cgi-bin/wiki.pl?BrainStormingWeb2.0atNIH-Notes

Existing and Future Role of Web 2.0

- Health communications
 - RSS feeds
 - For example, CDC RSS MMWR Feeds http://www.cdc.gov/mmwr/rss/rss.html
 - Videocasts (also called Vodcasts)
 - For example, NIH YouTube Channel http://www.youtube.com/NIHOD
- Blogging at higher levels
 - HHS Secretary Mike Leavitt's Blog http://secretarysblog.hhs.gov/
 - Allows site visitors to comment; Updated relatively frequently with timely content For example, October 25th post on MRSA
- Other Web 2.0 technologies
 - Social Networking (ex. MySpace, LinkedIn professional networking site)
 - Virtual Environment (ex. Second Life)
 - CDC, http://www.cdc.gov/about/stateofcdc/everywhere/secondLife.htm
 - Mashups (ex. http://mashupawards.com/)

Next Steps

- Evaluate the top tasks and goals of your site visitor
 - Identify most appropriate Web 2.0 technology (if applicable) based on user needs
 - Avoid "force fitting" solutions
- Repurpose content for Web 2.0 applicability
 - For example,
 - Create podcasts from existing content
 - Videotape interviews for posting
 - Make RSS feeds available for news releases or other frequently updated content

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