What the #%*&! is the Semantic Web?

"The Semantic Web is a collaborative movement led by international standards body the World Wide Web Consortium (W3C).[1]

. . .

By encouraging the inclusion of semantic content in web pages, the Semantic Web aims at converting the current web, dominated by unstructured and semistructured documents into a 'web of data'." https://en.wikipedia.org/wiki/Semantic_Web

How can we give every user a voice on every document?

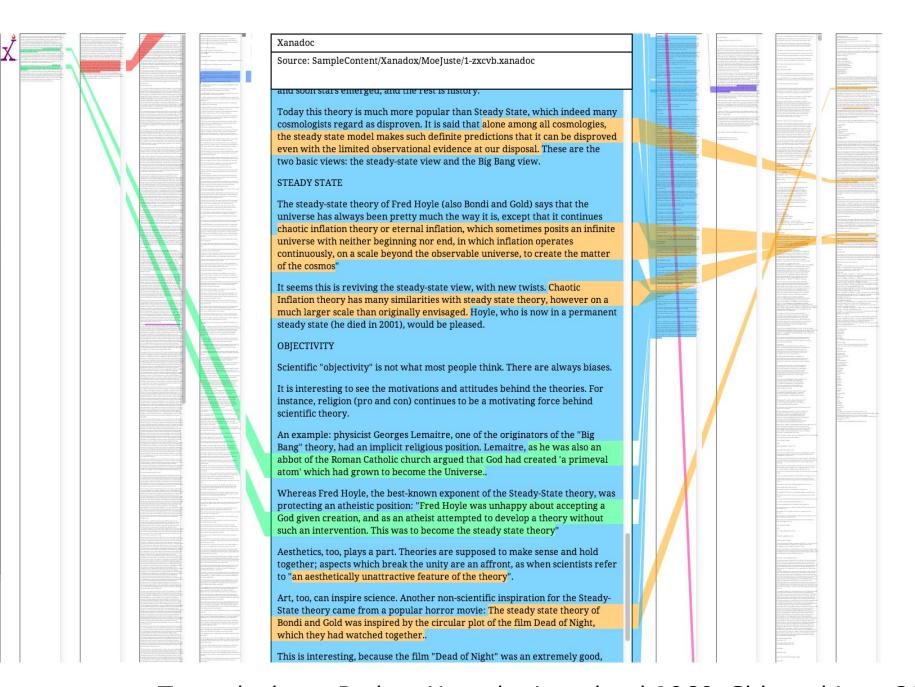
(and maintain high signal vs noise!)

What are the basic building blocks we need?

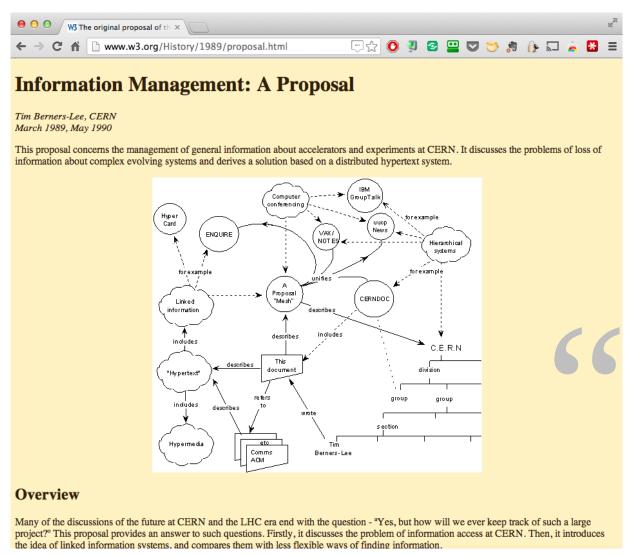




Trailblazing - What a Memex machine might look like



Transclusion - Project Xanadu, Imagined 1960, Shipped June 2014



One must also be able to annotate links, as well as nodes, ...



group annotation server guinea pigs?

Marc Andreessen (marca@ncsa.uiuc.edu) Mon, 31 May 93 22:41:06 -0500

Messages sorted by: [date][thread][subject][author]

Next message: <u>Tim Berners-Lee</u>: "Re: Keeping HTML Simple & Format negotiation between the state of the state

Previous message: Marc Andreessen: "Mosaic 1.1 prerelease available for testing"

We could use a few guinea pigs to try out our in-progress group annotation server for Mosaic. If you're interested, please let me know.

The current group annotation support is very simple (one group per group annotation server, one group annotation server per Mosaic session, no security except through obscurity), since it's mostly a proof of concept, but it does work and Mosaic 1.1 has built-in client-side support.

Suggestions as to future functionality and user interface components for same are welcome.

(How it works: every time you access a document in Mosaic, the group annotation server [if you're using one] is queried with the URL of the document you're viewing; if any group annotations exist for that document, the group annotation server returns to Mosaic corresponding hyperlinks which are inlined into the document just like personal annotations. So the assumption is that you've got a fast local net and group annotation server host. In the Mosaic Annotate and Audio Annotate window there are option menus that let you select 'Personal' or 'Workgroup' each time you make an annotation; for the latter, Mosaic sends the annotation over a socket to the group annotation server.)

Cheers, Marc



About Annotea

- Overview
- Documents
- News
- Press

How to ...

- Use annotations
- · Install a server
- Write clients

Annotea

- · Servers
- Clients
- All projects

Mailing list

www-annotation

Contributors

Related Links

 Annotations at SemanticWeb.org

Annotea Project

Overview

Annotea is a W3C LEAD (Live Early Adoption and Demonstration) project under Semantic Web Advanced Development (SWAD). Annotea enhances collaboration via shared metadata based Web annotations, bookmarks, and their combinations. By annotations we mean comments, notes, explanations, or other types of external remarks that can be attached to any Web document or a selected part of the document without actually needing to touch the document. When the user gets the document he or she can also load the annotations attached to it from a selected annotation server or several servers and see what his peer group thinks. Similarly shared bookmarks can be attached to Web documents to help organize them under different topics, to easily find them later, to help find related material and to collaboratively filter bookmarked material.

Annotea is open; it uses and helps to advance W3C standards when possible. For instance, we use an <u>RDF</u> based <u>annotation schema</u> for describing annotations as metadata and <u>XPointer</u> for locating the annotations in the annotated document. Similarly a <u>bookmark schema</u> describes the bookmark and topic metadata.

Annotea is part of the <u>Semantic Web</u> efforts. It provides a RDF metadata based extendible framework for rich communication about Web pages while offering a simple annotation and bookmark user interface. The annotation metadata can be stored locally or in one or more annotation servers and presented to the user by a client capable of understanding this metadata and capable of interacting with an annotation server with the HTTP service protocol.

The first client implementation of Annotea is W3C's <u>Amaya</u> editor/browser. Nothing prevents other clients from implementing these capabilities too. The current Amaya user interface for annotations is presented in the <u>Amaya documentation</u>. Other projects (Firefox client, PHP work, etc) will be added shortly.

Learn more

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2	NCSA Mosaic		ncsa.uiuc.edu	1993 ?		Just found out the mosaic browser had annotation built in originally!	Marc Andreessen	NCSA / UIUC	Shut it down before deployed, didn't w scale servers.
3	Insight		http://www.lunaimaging.com/index.htm					Luna Imaging	
4			http://xml.coverpages.org/panofeat.ht http://www.bplogix.com/support/imark	1000		SGML browser plugin for NCSA Mosaic stand-alone desktop application, database		SoftQuad	
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7		DEFUNCT	http://web.media.mit.edu/~orit/utok.ht	1999			Orit Zuckerman		discontinued-not enough ad revenue Acquired for \$150M in 2000, shut dow
8	Critlink	DEFUNCT	http://zesty.ca/crit/	2000		Public Web Annotations	Ka-Ping Yee		
9	The Annotea	DEFUNCT	http://annotea.org/	2001		annotation project to enhance W3C collaborative environment		W3C	
10						Multi-format support, connect to Moodle/VLE's, comprehensive document storage and management, enterprise &	Robert Cannon,		
	A.nnotate	LIMITED USE	http://a.nnotate.com/	2005		extensive API iournalism annotatortools to rate stories	Fred Howell	Textensor	
11	NewsTrust	DEFUNCT	http://newstrust.net/	2005		accuracy, fairness, sourcing, context	Fabrice Florin	NewsTrust	
12			http://ceur-ws.org/Vol-				Pat Croke, Ann Johnston, Kim		
	HP Trailblazer	DEFUNCT	175/19 croke jack final.pdf	2005		working paper Top ten research tools by CNET acquired Furl	Tighe	HP	
13	Diigo	WIDE USAGE	www.diigo.com/	2006		and Looksmart	undisclosed	Diigo	
14	Stickis	DEFUNCT	http://www.stickis.com/	2006		social bookmarking, annotation, social networking	Jean Sini and Marc A. Meyer	Activeweave, Inc.	reboot as BlogRovr and sold to BuzzL
15			https://addons.mozilla.org/en- US/firefox/addon/fleck-save-the-			_	Boris Veldhuijzen van Zanten and		
		DEFUNCT	best-of-the-web/	2006		save bookmarks and stickies on top	Patrick de Laive		
16	ShiftSpace	LIVING DEAD	http://sharedcopy.com/	2006	2011	Last software update 2009	Dan Phiffer Sami Tolvanen and		
17	My WOT	LIMITED USE	http://www.mywot.com/	2006		website reputation tool	Timo Ala-Kleemola	WOT Services, Ltd	
18		LIMITED USE	http://finalsclub.org/	2007		non-profit, open access to academic course material annotations of elite universities	Andrew Magliozzi		
19			http://www.shiftspace.org/	2007		blog tools, comment on attachments	Chew Choon Keat Farhad Mohit		
							(Founder and		
20						Annotating news with "dots" (distributed objects of thought), crowdsourcing multiple perspectives; "spot the truth, connect the	CEO), Matt Mastracci (CTO),		
	Dotspots	DEFUNCT		2007	2012	perspectives; "spot the truth, connect the	Naval Ravikant (Advisor)		
21	Awesome	DEFUNCT		2008	LUIL		three guys from		
22			http://www.awesomehighlighter.com/			no browser extension deliberative polling, community annotation	Florida.		
	Reframe It	DEFUNCT	http://reframeit.com/	2008		engagement comprehensive research management,	Bob Fishkin		
23		WIDE USAGE	http://www.mendeley.com/	2008		document storage	Victor Henning		
24		DEFUNCT	http://spinspotter.com/ http://yousticker.com/	2008	2009	"Seven Deadly Spins" annotation tool	Todd Herman Evgeny	Spin Spotter Inc.	
25	Yousticker / Stickr	LIVING DEAD	http://stickr.com/	2009		Sticky notes	Evgeny Palchevsky	IRE (Investigative	neglected
26		wane us : ==				Catalogues primary source documents for	Eric Umansky and	Reporters and	
27	DocumentCloud Marginize	WIDE USAGE STRUGGLING	http://www.documentcloud.org/ http://www.marginize.com/	2009 2009		journalists, researchers and activists makes use of twitter content about given page	Scott Klein	Editors) Marginize	
		DEFUNCT	http://www.google.com/sidewiki/	2009		and or terminal about given page	outur	google	scrapped
29			http://goozy.com/	2009			Eran Kariti	Hypermix	
30 31		DEFUNCT	http://www.kutano.com/	2009	2010		Assaf Koren		
31		LIMITED USE NEVER	http://markup.io/ http://dl.acm.org/citation.cfm?	2009			Josiah Roe	Medium	
	NewsCube	IMPLEMENTED	id=1518772 http://www.slideshare.net/bhaslhofer/l	2009		article	Souneil Park et al		
		RELEASED	lemo-annotation-framework	2009			Bernard Haslhofer	SlideShare	
34	Annozilla	RELEASED	http://annozilla.mozdev.org/	2009		annotea on Mozilla	Mahbod	mozdev.org	
35							Moghadam, Tom		
	RapGenius	WIDE USAGE	http://rapgenius.com	2009		Annotate rap lyrics!	Lehman, and Ilan Zechory	Rap Genius	10M monthly hits as of 10/2012. Just
36	Shareflow	LIMITED USE	http://zenbe.com/	2009		Real-time group collaboration on workflow	Alan Chung	Zenhe Inc	,
37								Open Knowledge	
	Annotatelt	LIMITED USE	http://annotateit.org/	2010		annotator tool and browser extension	Rufus Pollock Mullineaux, Matt	Foundation	
38	Highlighter.com	RELEASED	http://highlighter.com	2010		cloud based storage, education tools	Blancarte and Nate Whitehill	Highlighter	
39				2010		document storage/managementinteractive link		Webklipper	
40	WebKlipper HowTru	LIMITED USE DEFUNCT	http://webklipper.com/webklipper http://howtru.com/	2010		sharing content veracity model	Avlesh Singh Tom Bedolla	Technologies Voracious Entropy	
41			http://journaltalk.net	2010		Academic journal focus	George Mason	opy	
42	Critiquelt	LIMITED USE	https://edu.critiqueit.com/	2010			Alexandra Fleur, Ashley Bradford	Critiqueit Inc.	
44		LIMITED USE	http://substance.jo/	2011		publishing and authoring engine for writers, iournalists, scientists	Michael Aufreiter		
45						site screengrab annotation, shareable with			
46	BounceApp NotableApp	RELEASED	bounceapp.com noteableapp.com	2011		Notableapp		Zurb Zurb	
47	NotableApp Converati	LIVING DEAD	noteableapp.com http://converati.com/	2011		social bookmarking/annotating	Seth Samuels	£UID	
48	Findings	RELEASED	http://findings.com/	2011		enabled excerpting from Amazon kindle, social clipping stream	John Borthwick	betaworks	
			https://www.icorrect.com/	2011			David Tang		
50 51		ANNOUNCED	http://dbunkr.com	2011		"deeper than fact-checking"	undisclosed	dBunkr	
51 52	Digress.it CliqueMe	LIMITED USE DEFUNCT	http://digress.it/ http://cliqueme.proboards.com/index.	2011		Wordpress Annotation plugin	Eddie Tejada		scrapped
53		DEFUNCT	http://confront.intel-			intellabs	Rob Ennals		
54		ALPHA	research.net/Dispute_Finder.html#Us http://en.doc.fidesfit.org/wiki/Main_Pa			Web of Trust framework	NUU ENNAIS	Fidesfit	project ended
55		BETA	http://filesq.com			annotation for design work			
56		WIDE USAGE	http://www.goodiware.com/goodreade			big file support, drop box enabled, text search, annotation tools		Apple	
57	Citability	LIVING DEAD	http://citability.org			Annotation of government documents			
58	Annotary	LIMITED USE	https://annotary.com	2012		General personal annotation tool and highlighter			
59						GUI document viewer and annotation tool, can link different passages together, tablet or			
60	LiquidText	ALPHA	http://liquidtext.net/	2012		touch table	Craig Tashman	LiquidText, inc.	
00									







	-







w3.org/annotation

(Est. August 19, 2014)

Why will this succeed... now?

(or, why won't we just fail miserably?)

Annotation is all around us.



























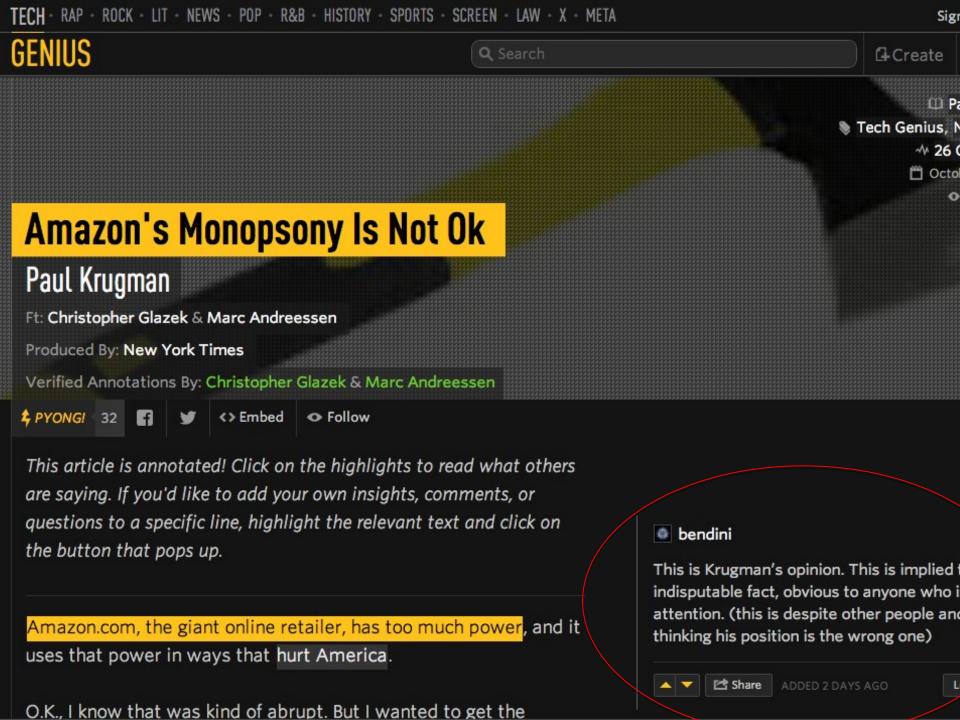














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4 They think readers are more comfortable responding to an individual sentence or paragraph than to an entire page 15 What do you think? Sidenote counter guess we'll see! = 11 RobBiesenbach Interesting -- so using sidenotes means no comments below the post? About Gini Dietrich Sidenotes discussion 2 A V jasonkonopinski Gini Dietrich is the founder and CEO of Arment Dietrich, a Chicago-Mebbe that's a bug? based integrated marketing communications firm. She is the lead RebeccaTodd blogger here at Spin Sucks and is the founder of Spin Sucks Pro. Yeah- I hope that the sidenotes don't replace the end notes. She is the co-author of Marketing in the Round and co-host of Inside PR. Her second book, Spin Sucks, is available now. ginidietrich Mod It's a bug. They're working on it. View all posts by Gini Dietrich → Blog Twitter Facebook Google+ RobBiesenbach Gotcha. I think it's cool, but seems a little unwieldy versus comments below, having to look for and click on each little sidenote. Maybe there are settings (or future options) that mark the sidenotes SUBSCRIBE with a color and allow you to hover to view instead of click? Danny Brown Perhaps the blogger could use blockquotes as a highlighted thought, We Your and invite sidenotes on that area only to keep both the comments Sidenotes powered by livefyre 3

Community Building with Strategy and Value



Building a Community of Champions



The Spin Sucks Inquisition: Mitch Joel



Why We Won't Shut Off **Blog Comments**

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Richard Van Noorden

02 December 2014 | Clarified: 02 December 2014



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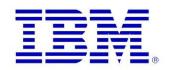
http://www.nature.com/news/nature-makes-all-articles-free-to-view-1.16460

Organizations building standardscompliant applications



























hypothes.is













TOSHIBA

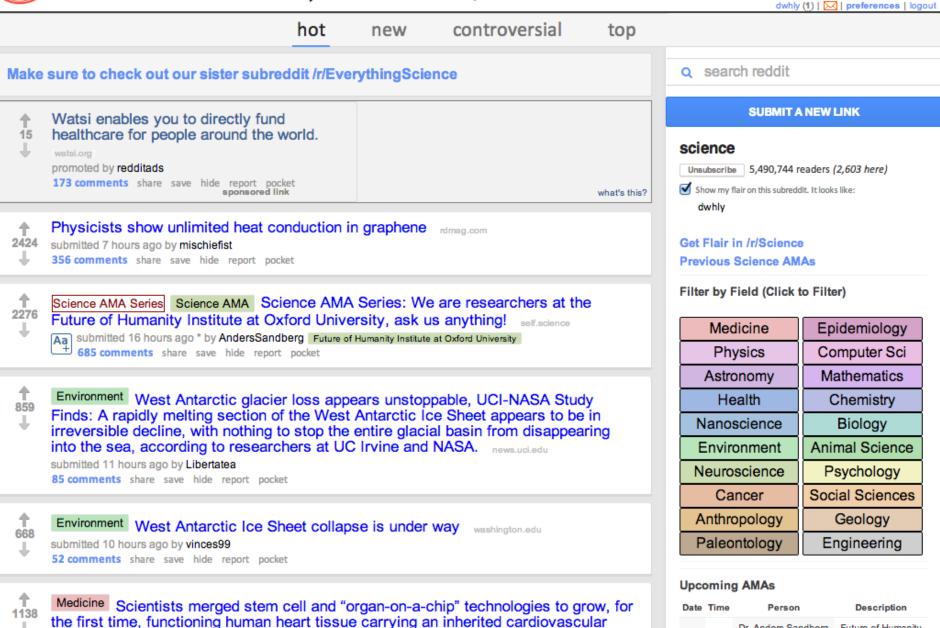




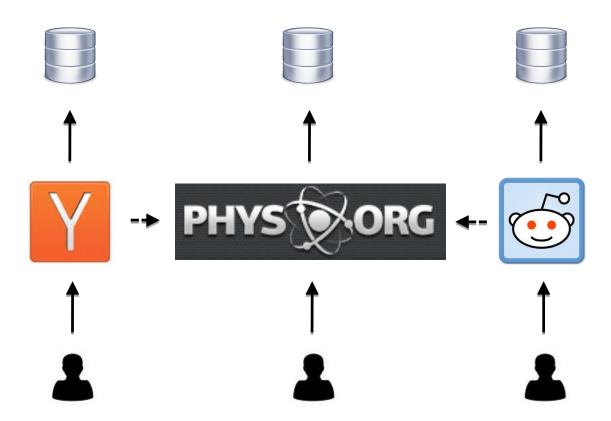




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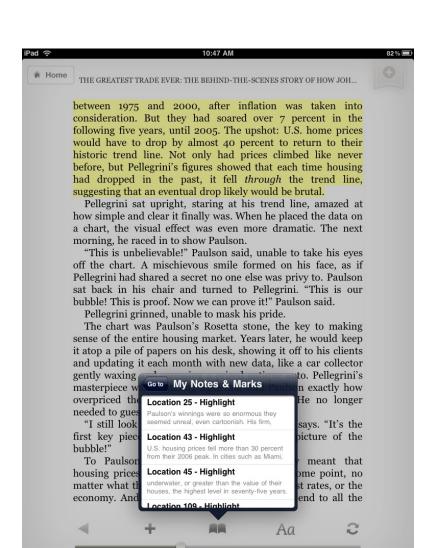


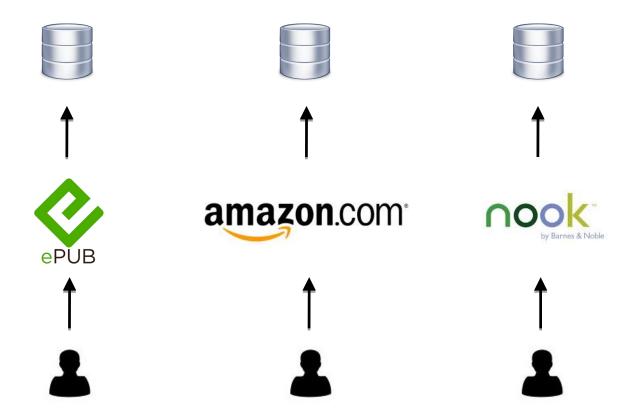
THE RIVER OF DOUBT: THEODORE ROOSEVELT'S DARKEST JOURNEY

Far from its outward appearance, the rain forest was not a garden of easy abundance, but precisely the opposite. Its quiet, shaded halls of leafy opule the greatest natural battlet. 142 other people highlighted this part of the book an unremitting and remorseless fight for survival that occupied every single one of its inhabitants, every minute of every day. Though frequently impossible for a casual observer to discern, every inch of space was alive—from the black, teeming soil under Roosevelt's boots to the top of the canopy far above his head—and everything was connected. A long, linked mat of fungi under the soil consumed the dead and fed the living, completing an ever-changing cycle of remarkable life and commonplace death which had throbbed without pause for millions of years—and of which Roosevelt and his men, knowingly or not, had now become a part.

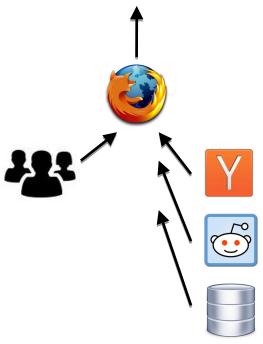
* * *

UNLIKE THE woods of New England, where Roosevelt had spent years exploring and learning about nature, the rain forest floor was not covered with thick leaf litter or plant life, but appeared largely empty, characterized only by a shallow layer of soil shot through with thin white threadlike fibers. Just as unusual, each tree in the Amazon rain forest appeared to be nearly unique. Many trees had commonly shaped leaves, but stands or groupings of a single tree species were very rare, and after identifying one tree the men could search for hours before finding another of the same kind. The trees themselves were often strange and complex, characterized by huge buttresses, flowering trunks, or apparent branches that plunged back into

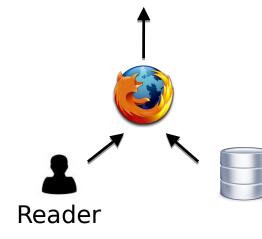








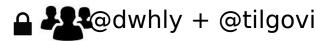
















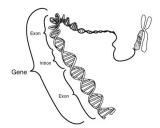














A non-profit project to enable community moderated annotation of the world's knowledge.







The Andrew W. Mellon Foundation

An annotation



address

message

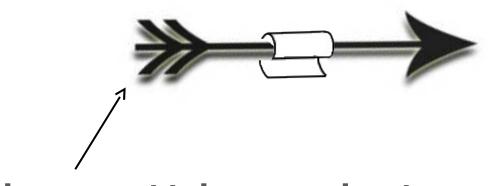
target

target (<u>specific</u> <u>location</u>) <u></u>

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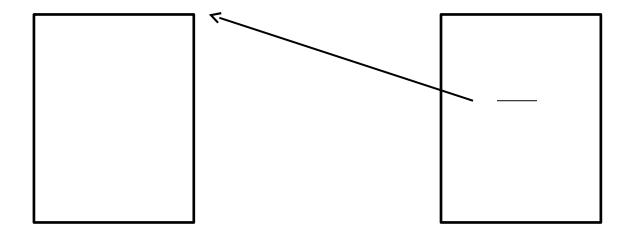
message

Digital annotations are addressable

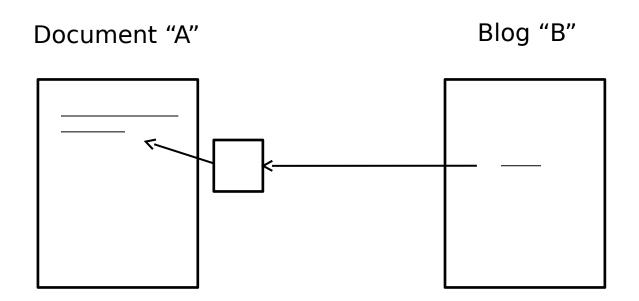


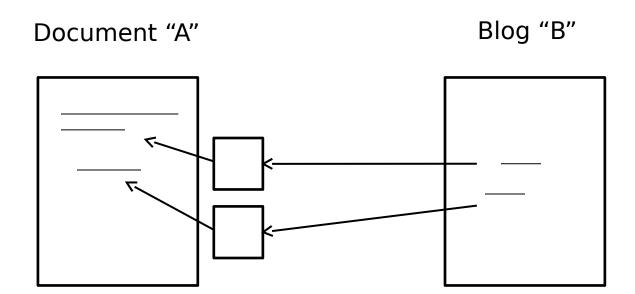
http://domain/path

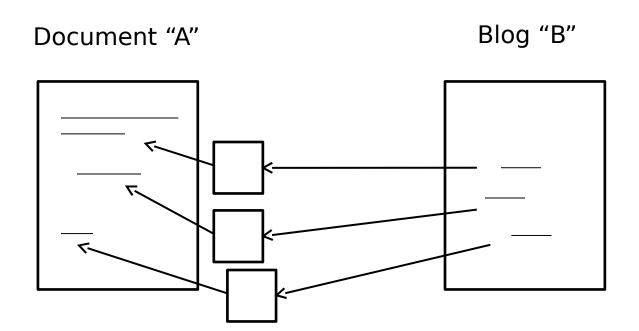
Now

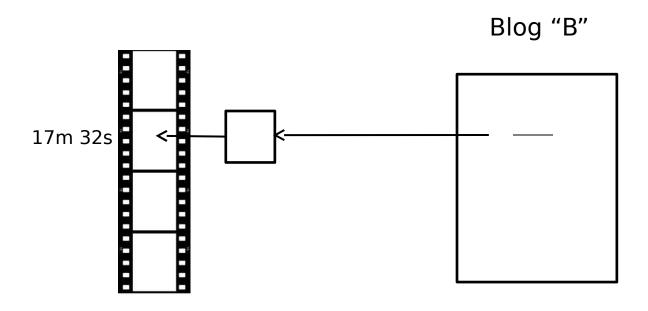


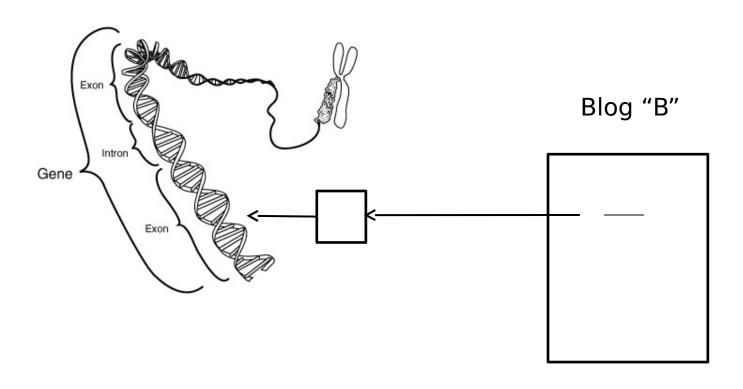
Coming Soon











It's like the web.

- Interoperable
- Decentralized
- Open source
- (Hopefully) backwards compatible

Possible features

- Groups
- Image & video annotation
- Moderation, voting, flexible peer-review models
- Automated spam detection
- Copy-editing features (resolve)
- Semantic tagging & external taxonomies
- Offline functionality

What are the powerful, semantic-like things?

- User-driven linking
- Robust, precise anchors
- Media-rich bodies
- Semantic tags
- Machine-generated annotations
- Support for a wide range of document and media formats
- Interoperable data format with a set of quality open-source libs

In Implementation

(partial list)

























