

The background of the slide is a light blue, textured image showing several hands of different skin tones reaching out and holding a globe. The hands are positioned around the globe, with fingers spread, symbolizing global unity and collaboration.


Web 3.0


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The background of the slide is a light blue, semi-transparent image showing several hands of different skin tones reaching up to hold a globe. The hands are positioned around the globe, with fingers spread, symbolizing global unity and collaboration. The text "What is Web 3.0?" is centered over this image.

What is Web 3.0?

- 
- It is a “web of data” which enables machines to understand the meanings of information on the World Wide Web and respond to complex human requests based on these meanings.

- 
- A light blue, semi-transparent background image showing a hand holding a piece of crumpled paper, suggesting a document or a plan.
- Also known as Semantic Web.
 - 8.8 gbps
 - It enables automated agents to access the Web more intelligently.
 - The term was coined by Tim Berners-Lee who is also the inventor World Wide Web.
 - Expected to be developed between 2010-2020.

avatar
semantic
SL
web
geospatial
MUVE
3.0

3.0






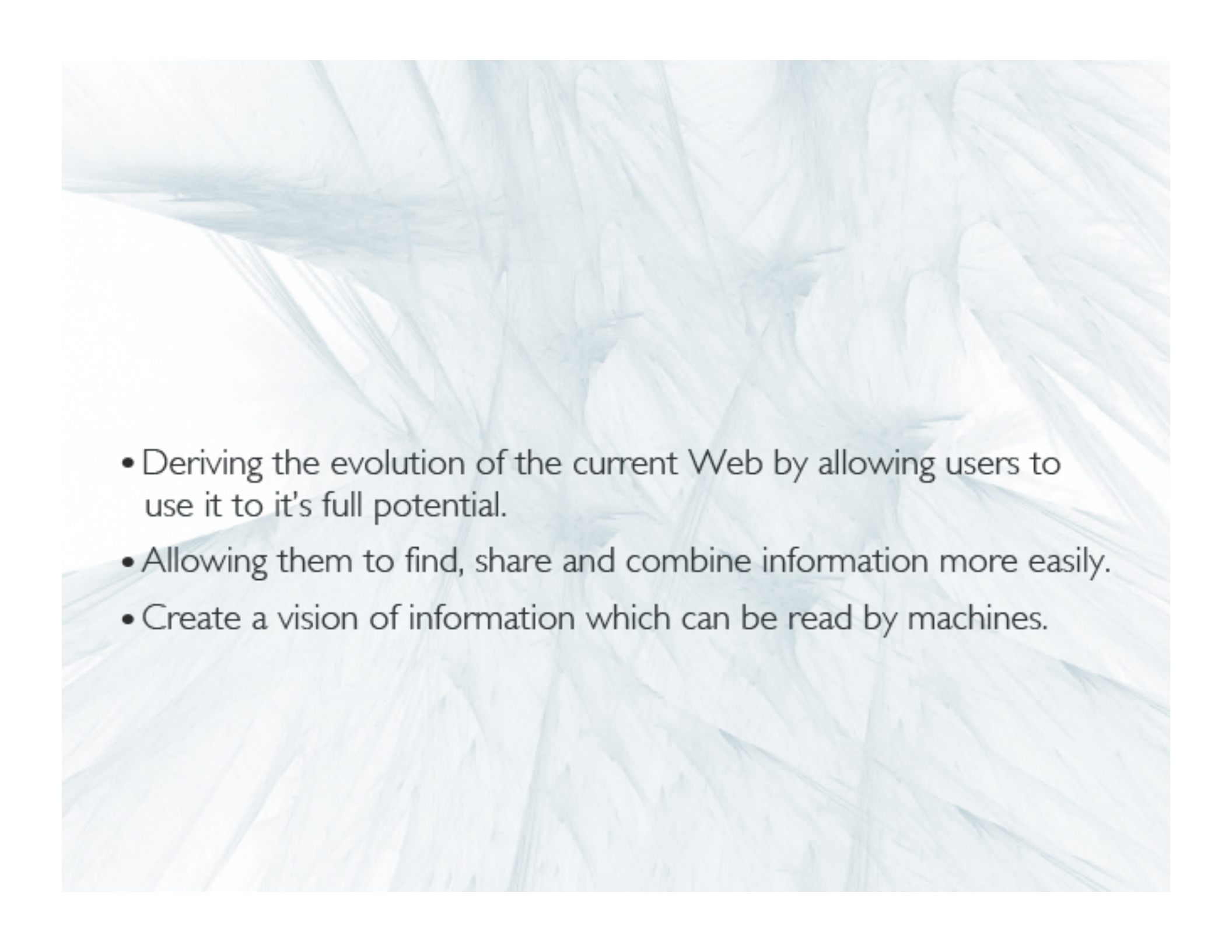
A web where the **context** of content
is defined by **data**



Capable of **reading** and **understanding**
content and context



What is it's purpose?

- 
- Deriving the evolution of the current Web by allowing users to use it to it's full potential.
 - Allowing them to find, share and combine information more easily.
 - Create a vision of information which can be read by machines.



Tim Berner-Lee;

“I have a dream for the Web become capable of analyzing all the data on the Web – the content, links, and transactions between people and computers. A ‘Semantic Web’, which should make this possible, has yet to emerge, but when it does, the day-to-day mechanisms of trade, bureaucracy and our daily lives will be handled by machines talking to machines.”




How it's going to do it?

- Metadata: "Data about the containers of data".
- Tagging System
- Resource Description Framework (RDF): Defines and describes data and relations among data.
- The Web Ontology Language (OWL): Family of knowledge representation languages for authoring ontologies. The languages are characterised by formal semantics and RDF/XML-based serializations for the Semantic Web.
- Microformats: Data embedded within XHTML



Where are we seeing it?

- 
- Hakia (Beta)
 - Powerset: Only Wikipedia
 - Sensebot (Beta): Brief, keywords, tags.
 - Deepdyve: Does not use its index but only internet.
 - Cognition: Wikipedia



search

Leading Semantic Search Technology



What is Semantic Search ?

10 points of differentiation from keyword indexing



Test hakia's semantic search against PubMed's search over the same content



[SENSEnews.com](#) is a new technology to enable an investor to instantly assess the character and impact of all available information from traditional news, online and social media on a company's valuation, stock prices, and other key factors.



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Search

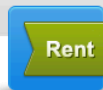
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Vikesh

Silvia

L. Scott

Marcin

Robert



JUL 16
2007

Cognition Search: Formula for "Meaning" in Search

0

Tweet

SHARE

in

SHARE

Like Be the first of your friends to like this.

Backed by the experience of leading linguistic experts and technology that takes into consideration, ontology, morphology and synonymy, CognitionSearch, the semantic engine from Cognition technologies touts to have the perfect recipe to nail "meaning" in search.

Launching in the vertical domains of legal services, medical and health sciences, Cognition search intends to gain traction and finances to hopefully launch as a full-fledged engine in the future.

What runs CognitionSearch?

Briefly, the technology powering Cognition Search is...

SenseBot

The Search Engine that finds sense in a heap of Web pages

SenseBot is a semantic search engine that generates a text summary of multiple Web pages on the topic of your search query. It uses **text mining** and **multidocument summarization** to extract sense from Web pages and present it to the user in a coherent manner. A "Semantic Cloud" of concepts is displayed above the summary, allowing to steer the focus of the results. To learn about our approach, go to the [About SenseBot](#) page, or browse [Samples](#).

Download a [Firefox browser add-on](#) integrating SenseBot with your Google searches. Search as usual, and a summary of the results will be generated right on the Google page.

Visit our Sentiment Analysis site and look up public sentiment on a topic of your interest. You can also order customized reports showing sentiment trend over time.

We provide a number of **Products and Services** based upon SenseBot technology, including B2B services for enterprises and Web portals.

Search

Semantic API

Sentiment Analysis

Products / Services

Semantic Blogging:

- "The process of blogging inherently emphasizes metadata more than traditional Web publishing methodologies".
- RSS feeds are another way that blogs already have machine readable data that is easily accessible by the semantic web.
- Tags can be linked easily to other blogs containing similar information.



What is the difference ?



Web 1.0:

- The web as an information portal.
- It was all about our search for online viability.
- It was lack of;
 - content
 - interaction
 - scalability

The background of the slide is a light blue, semi-transparent image showing several hands of different skin tones reaching out and holding a globe. The hands are positioned around the globe, with fingers spread, symbolizing global unity, collaboration, and community.

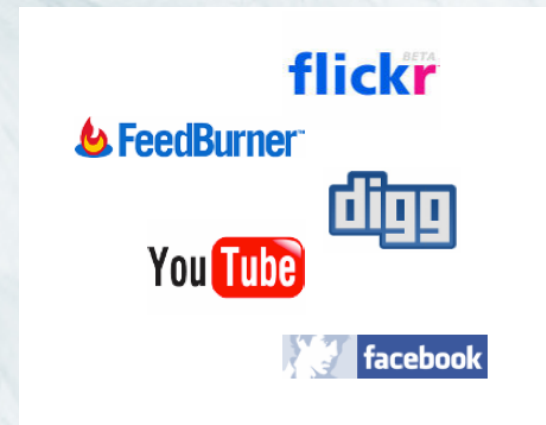
Web 2.0:


- Focus on the power of community to create and validate.
- It is all about the power of networks, collaboration, friends.
- It was lack of;
 - personalization
 - true protability
 - interoperability

Web 1.0:



Web 2.0:





The Evolution to Web 2.0

Web 1.0:

“the mostly read only web”

45 million global users

focused on companies

home pages

owning content

Britannica Online

HTML, portals

web forms

directories (taxonomy)

Netscape

page views

Web 2.0:

“the mostly read-write web”

1 billion global users

focused on communities

blogs

sharing content

Wikipedia

XML, RSS

web applications

tagging (folksonomy)

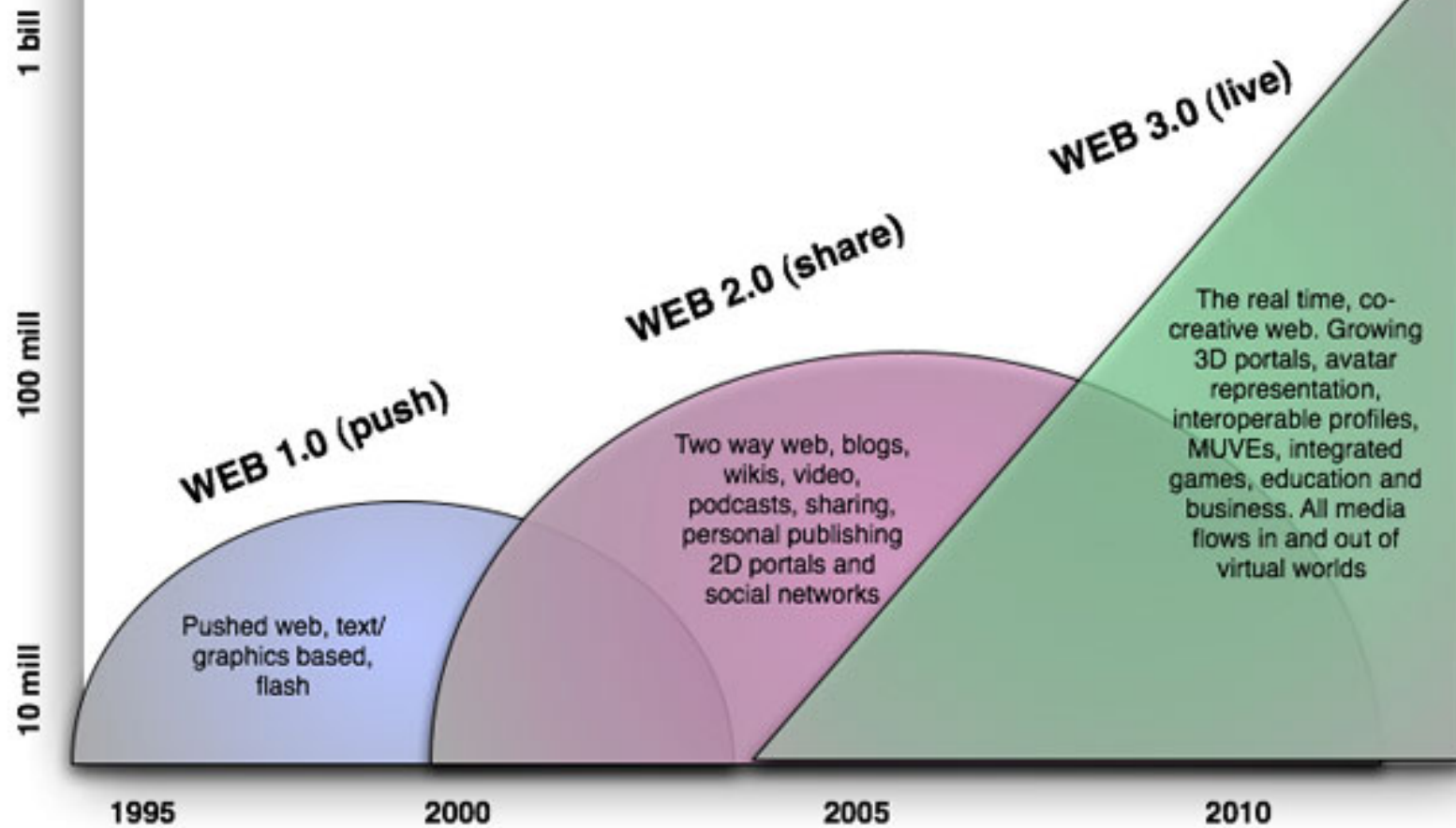
Google

cost per click

Web 3.0:

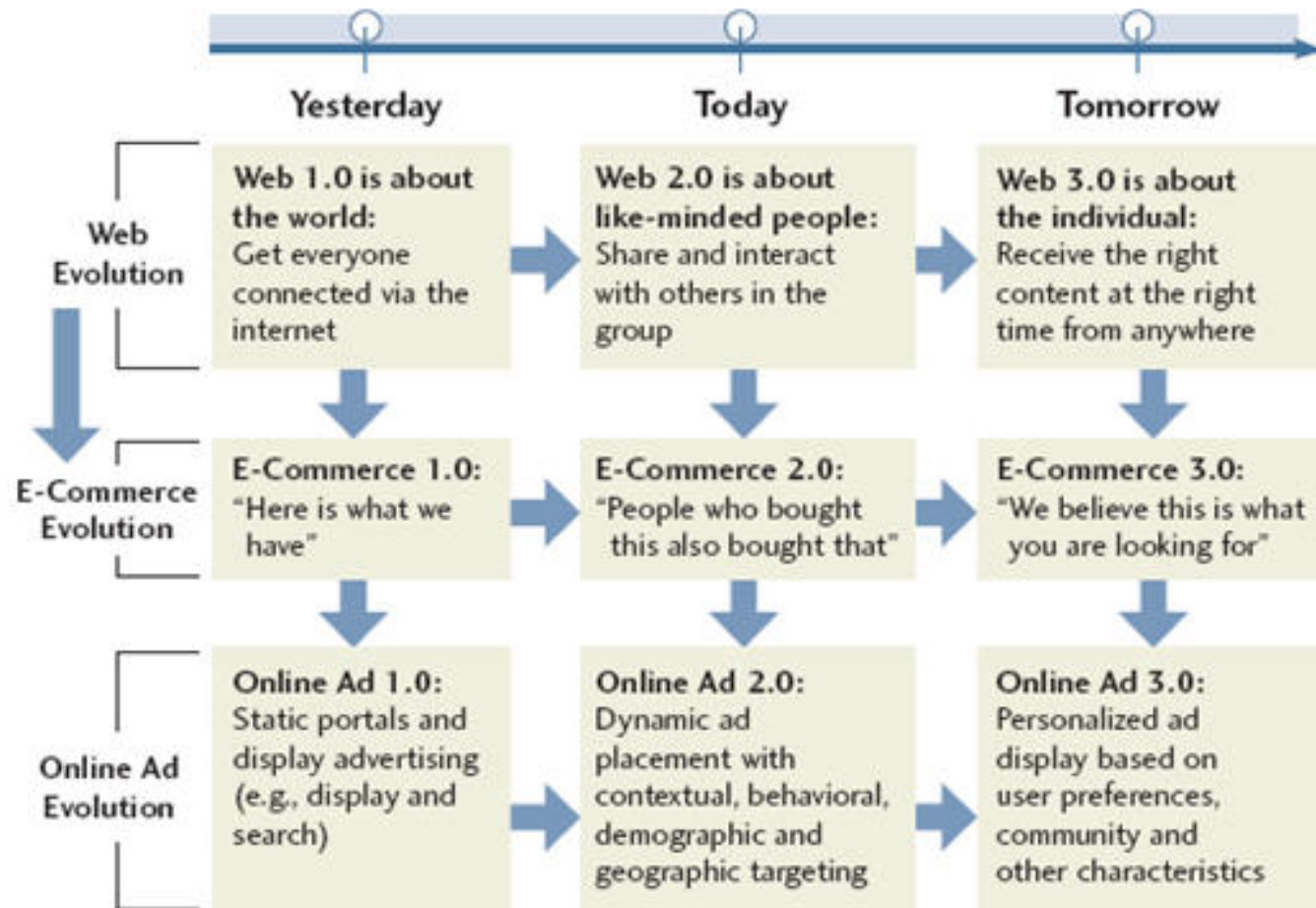
- The Semantic Web: Changing the web into a language that can be read and categorized by the system.
- Personalization: Contextualizing the web based on the people using it.
- Artificial Intelligence: Extracting meaning from the way people interact with the web..
- Mobility: Everything, everywhere, all the time.

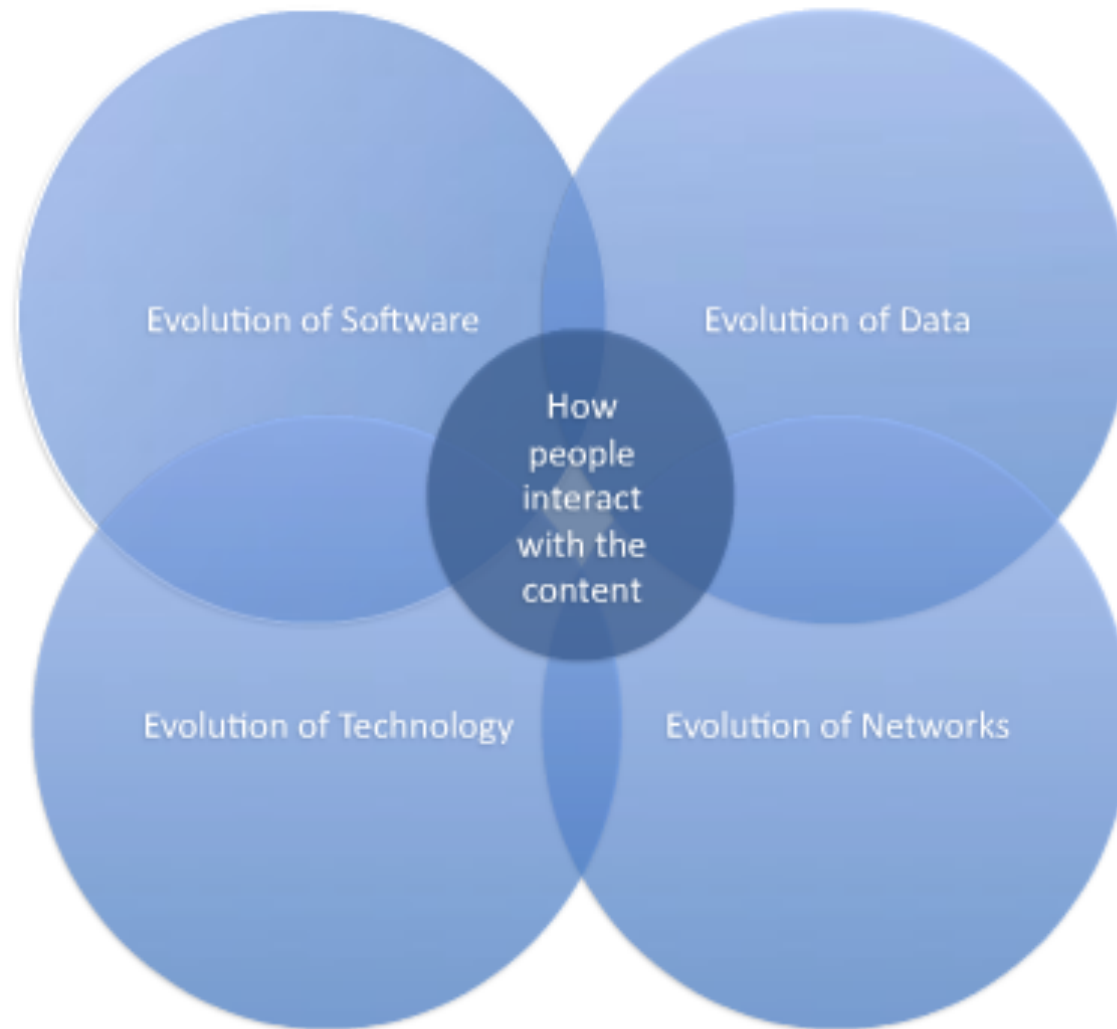
THE CHANGING INTRAWEB - FROM 1.0 to 3.0 © Gary Hayes 2006




Web Evolution and Its Impact on E-Commerce and Online Advertising


Source: Yankee Group, 2008





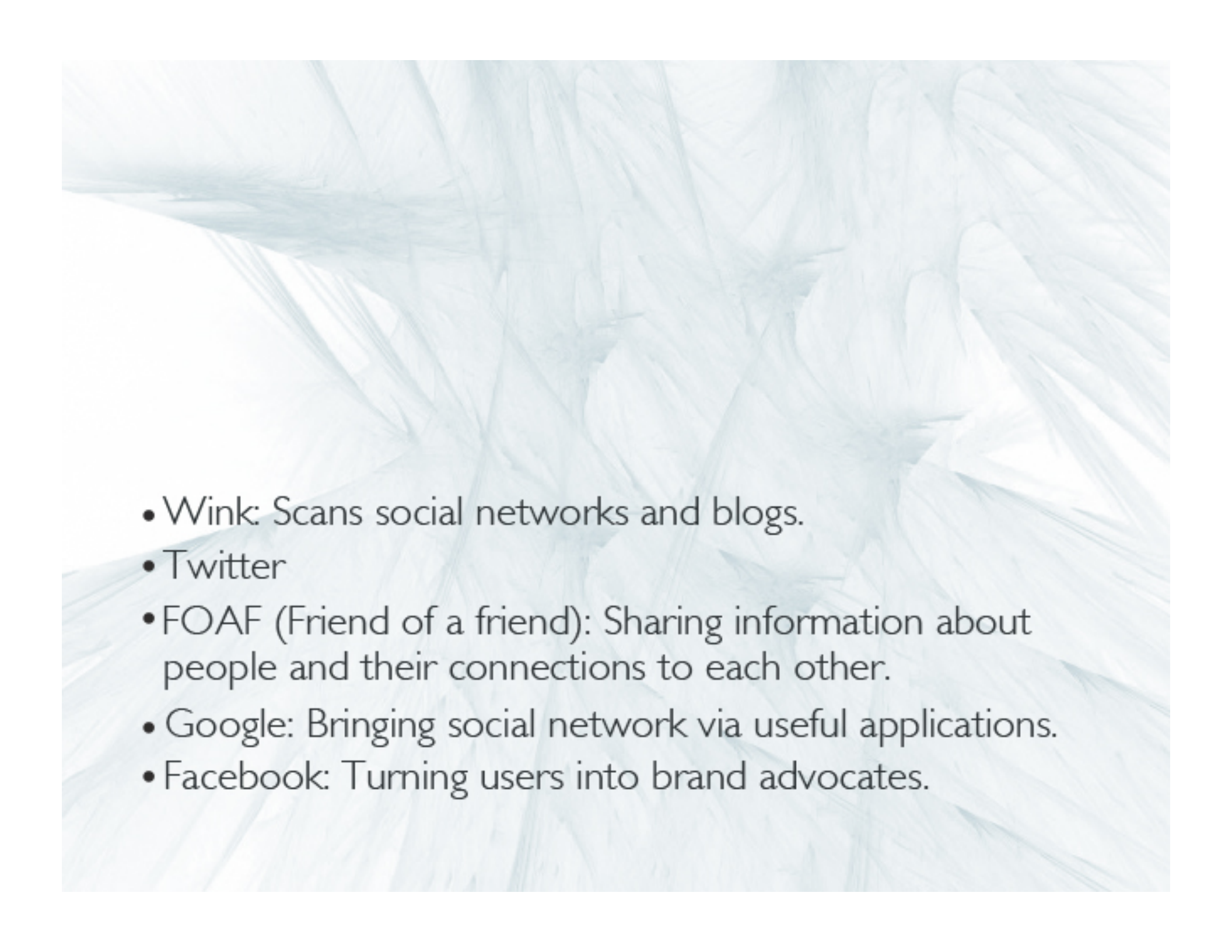
The background of the slide is a light blue, semi-transparent image showing several hands of different skin tones reaching up to hold a globe. The hands are positioned around the globe, with fingers spread, symbolizing global unity and collaboration. The text 'Web 3.0 in Facebook' is centered over this image.

Web 3.0 in Facebook

- 
- Face Recognition
 - People You May Know
 - Determining people's ethnics by name and surname
 - Showing the nearest friends from people's locations.
 - Advertisements according to your info and interest.



Which Other Corporations?

- 
- Wink: Scans social networks and blogs.
 - Twitter
 - FOAF (Friend of a friend): Sharing information about people and their connections to each other.
 - Google: Bringing social network via useful applications.
 - Facebook: Turning users into brand advocates.



The Evolution To Web 3.0

Web 2.0

“the mostly read-write web”
focused on communities
blogs
sharing content
XML, RSS
web applications
tagging (“folksonomy”)
Google
cost per click

Web 3.0

“the portable personal web”
focused on individuals
lifestream
consolidating dynamic content
the semantic web
widgets, drag&drop mashups
user behavior (“me-onomy”)
iGoogle, Netvibes
advertainment

References:

<http://www.webrazzi.com/kategori/semantik-web/>

<http://www.ugureskici.com/internet-dunyasi/semantic-search-semantik-arama.html>

http://en.wikipedia.org/wiki/Semantic_Web

http://www.godoro.com/Divisions/Ehil/Mahzen/Java/TheJavaBook/txt/html/document_JdbcMetaData.html

<http://www.pazarlamakolik.com/sosyal-medya-web-3-0-iliskisi>

<http://www.genbilim.com/content/view/291374/27/>

The background of the slide features a close-up, high-angle shot of several hands of different skin tones. The hands are positioned in a way that suggests they are holding or supporting each other, with fingers interlaced or gripping. The lighting is soft and even, highlighting the textures of the skin. The overall composition conveys a sense of unity, strength, and mutual support.

Thank You For Listening