

The Next Generation of the Web 3.0

The Semantic Web Vision

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Outline

- ➔ What/why The Semantic Web, in short
 - The RDFa scenario
 - The Semantic Web
 - Web Generations

Keywords: Social Community, Collaboration, Sharing, APIs, blog, Social Networking, Content syndication, Mashups, Web APIs, Semantic, RDFa, ontology, shared meaning, Semantic Web Stack, Web Generations

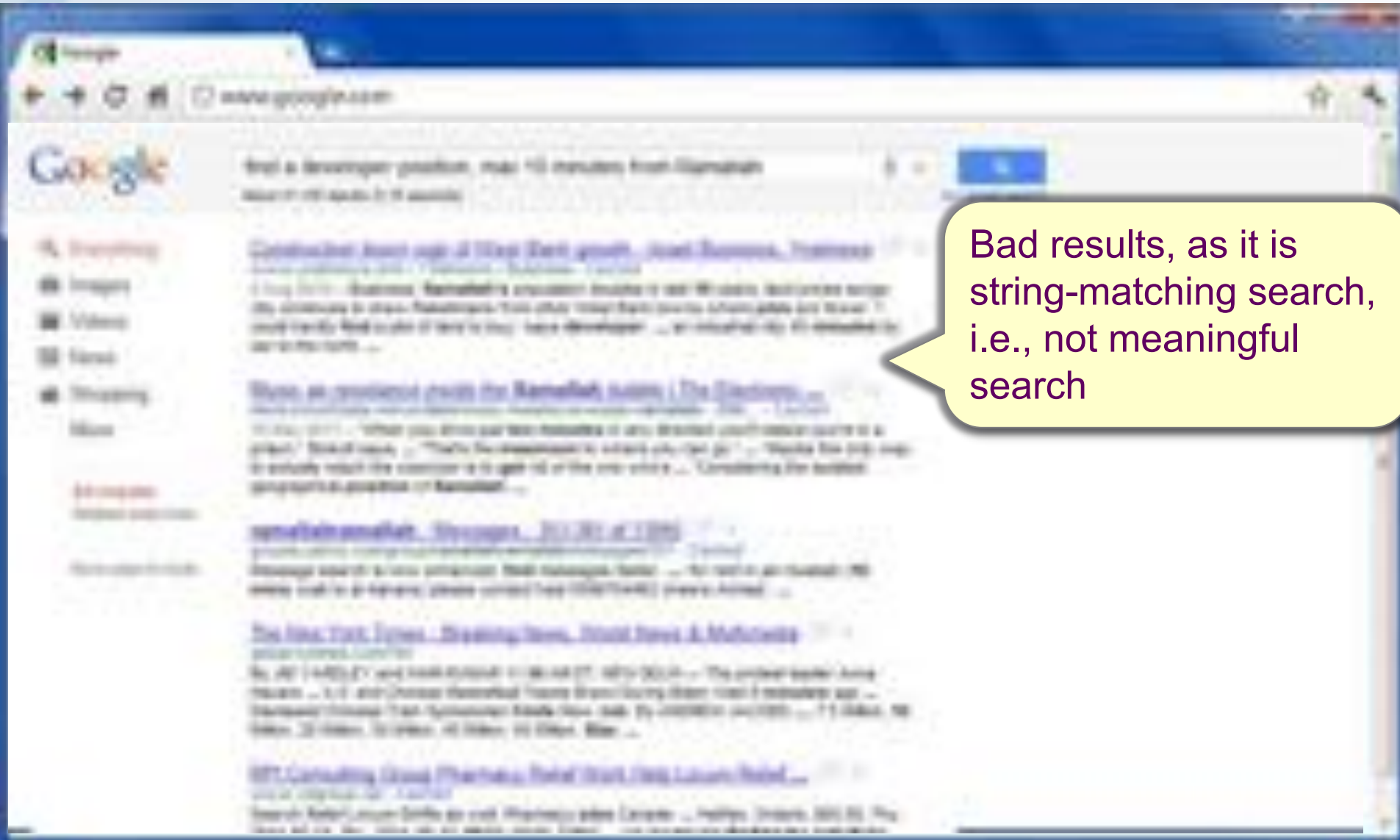
What/why The Semantic Web, in short

The RDFa scenario



What/why The Semantic Web, in short

The RDFa scenario



Bad results, as it is string-matching search, i.e., not meaningful search

What/why The Semantic Web, in short

The RDFa scenario

Shared meanings of things,
This meaning is embedded
inside web pages.

Ontology

“The **semantic web**” mission:
syntax to semantic based search
→ The next generation of the
web.



find a developer position, max 10 minutes from Ramallah

Google Search

I'm Feeling Lucky



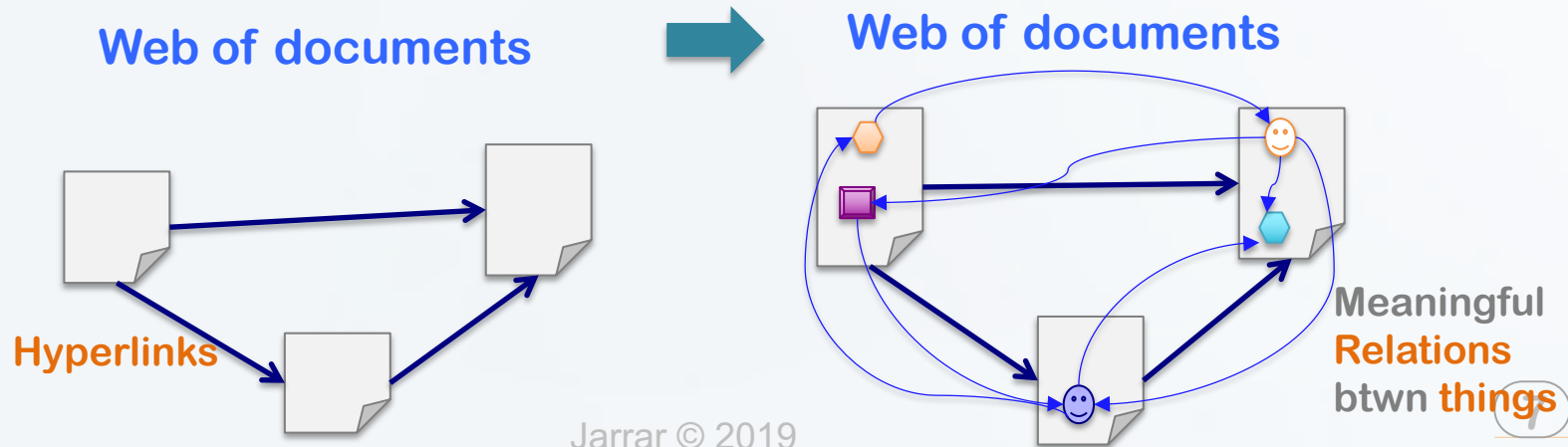
3 billion pages

6

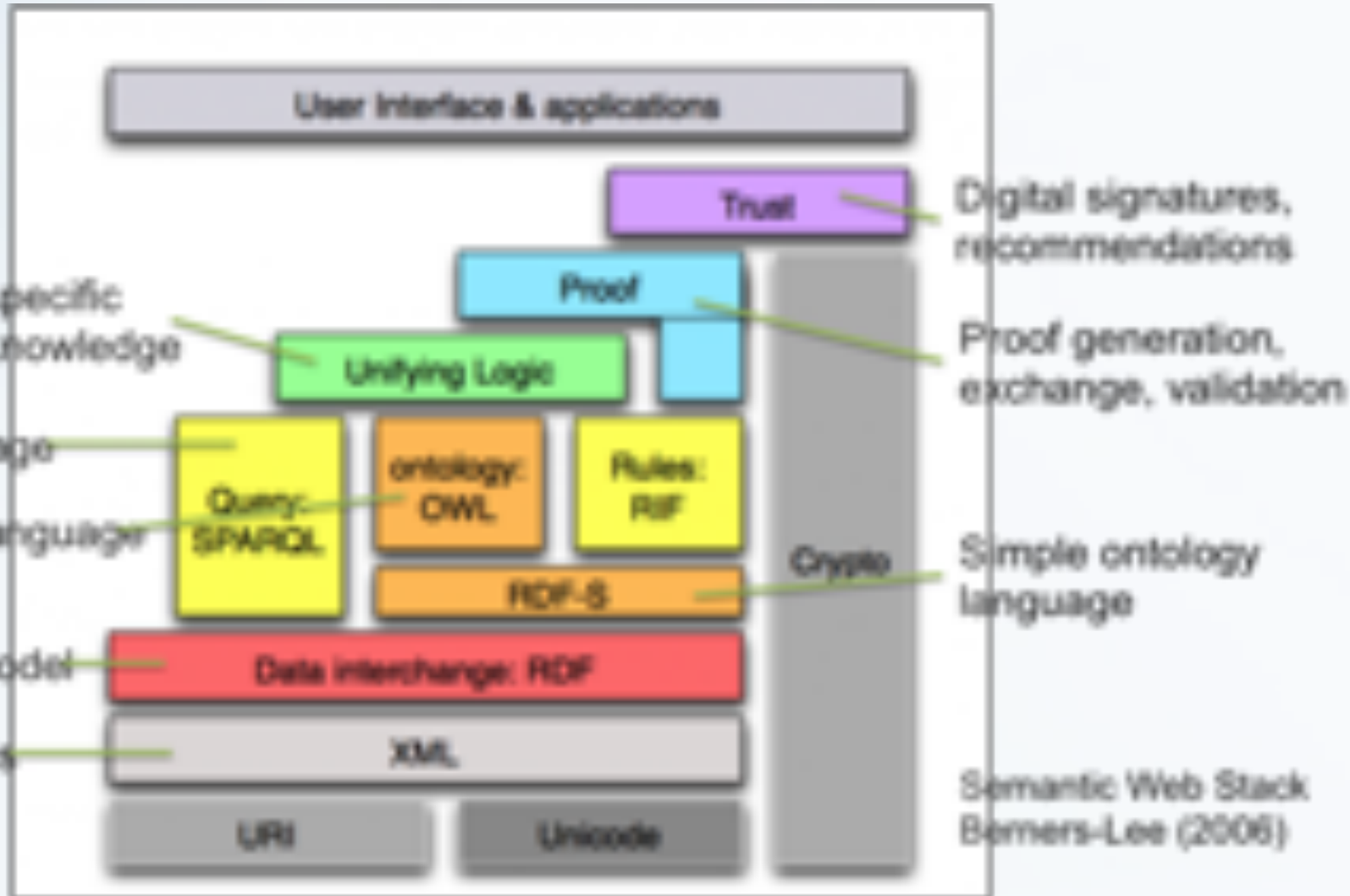
The Semantic Web

Based on [1]

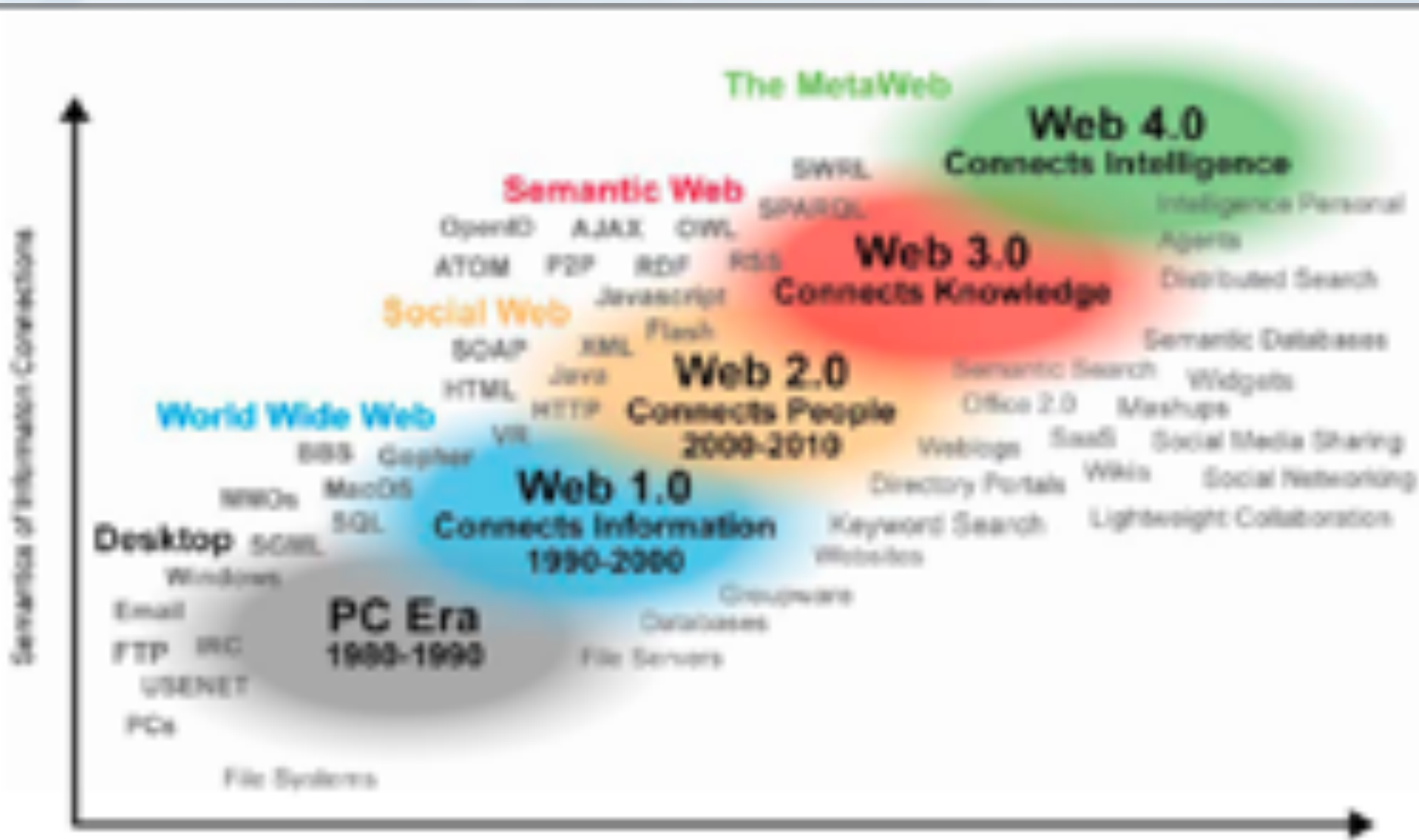
- The term was coined by Tim Berners-Lee for a web of data that can be processed and understood by machines.
- In 2001, An article in Scientific American by Berners-Lee, Hendler, and Lassila described an expected evolution of the Web to a Semantic Web.
- W3C: "The Semantic Web provides a common framework that allows data to be shared and reused across application, enterprise, and community boundaries."
- Encourage the inclusion of semantic content in web pages, converting the current web, dominated by unstructured and semi-structured documents into a "web of data".



Semantic Web Stack



Web Generations



Source: <http://projects.kmi.open.ac.uk/>

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