

O W3C Futuro da Web HTML5 Web Semântica



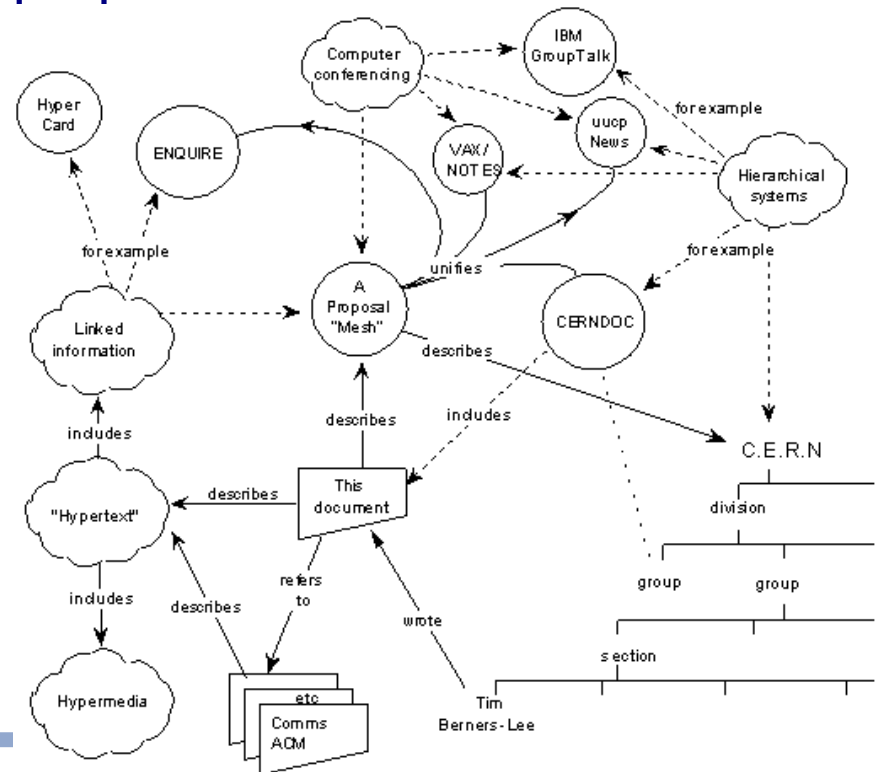
Abril/2011- SENAC Jaboticabal – ROAD SHOW de TI 2011



Web e W3C

Tim Berners-Lee criou / propôs

- a Web em 1989 (há 21 anos)
 - <http://www.w3.org/History/1989/proposal.html>
 - (URI + HTTP + HTML)



Web e W3C

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- o W3C em 1994 (há 16 anos)
 - 01/10/1994 no MIT, Laboratório de Ciência da Computação



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 - 01/10/1994 no MIT, Laboratório de Ciência da Computação
- Web Semântica
 - 1a. Conferência Internacional WWW – 25 a 27/05/1994
 - <http://www.w3.org/Talks/WWW94Tim/>



O Consórcio World Wide Web (W3C)

É um consórcio internacional

- organizações filiadas,
- uma equipe em tempo integral,
- participação do público



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para colaborativamente desenvolver padrões universais para a Web.



Missão do W3C

Conduzir a World Wide Web para que atinja todo seu potencial, desenvolvendo protocolos e diretrizes que garantam seu crescimento de longo prazo.



O W3C desenvolve padrões

Conduzir a World Wide Web para que atinja todo seu potencial, desenvolvendo protocolos e diretrizes que garantam seu crescimento de longo prazo.

Desde sua fundação, o W3C publicou mais de uma centena de padrões, denominados

Recomendações do W3C
Web Standards – Padrões Web



Metas W3C

- Web para todos



Metas W3C

- Web para todos

Tornar os benefícios da web (seu valor social: comunicação humana, comércio, compartilhar conhecimentos) disponíveis a todos, independente de

- Hardware
- Software
- Infra-estrutura de rede
- Idioma
- Cultura
- Localização geográfica
- Habilidade física
- Habilidade mental



Metas W3C

- Web para todos
- Web em qualquer dispositivo



Metas W3C

- Web em qualquer dispositivo

Possibilitar que o acesso de qualquer tipo de dispositivo seja tão simples, fácil e conveniente quanto de um computador convencional

- Computadores
- Desktops
- Netbooks
- Telefones
- PDAs
- TV digital
- Sistemas de interação por voz
- Aparelhos domésticos
- ... web ubíqua



Metas W3C

- Web para todos
- Web em qualquer dispositivo
- Web base de conhecimento



Metas W3C

- Web base de conhecimento

Não apenas um grande livro hiperlinkado onde pessoas possam pesquisar, navegar, visualizar e **ler** informações

Possibilitar que computadores interpretem, estabeleçam inferências e relações na web

Interoperabilidade

– Web Semântica



Metas W3C

- Web para todos
- Web em qualquer dispositivo
- Web base de conhecimento
- Web confiável e segura



Metas W3C

- Web confiável e segura

Uma web em que as transações sociais e comunicações com terceiros sejam estabelecidas em relações de confiança, por pessoas, organizações ou serviços

- Ambiente mas colaborativo
- responsável
- seguro
- Confiança e Confidência



Futuro da Web

- Não apenas repositório de documentos com o propósito de exibição, mas de automação, integração e reuso em sistemas diferentes
- Não apenas apresentar dados, interpretá-los
- Compartilhar informações (interpretações) com organização em escala e completa integração de recursos



Futuro da Web

Web sintática



Web semântica

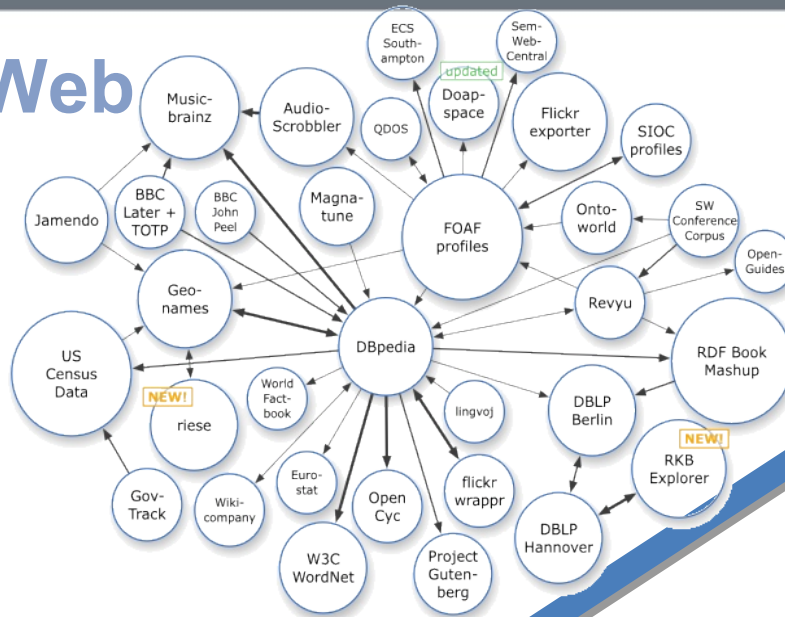
Regras e formalidades



Interpretações,
inferências e
relações



Futuro da Web



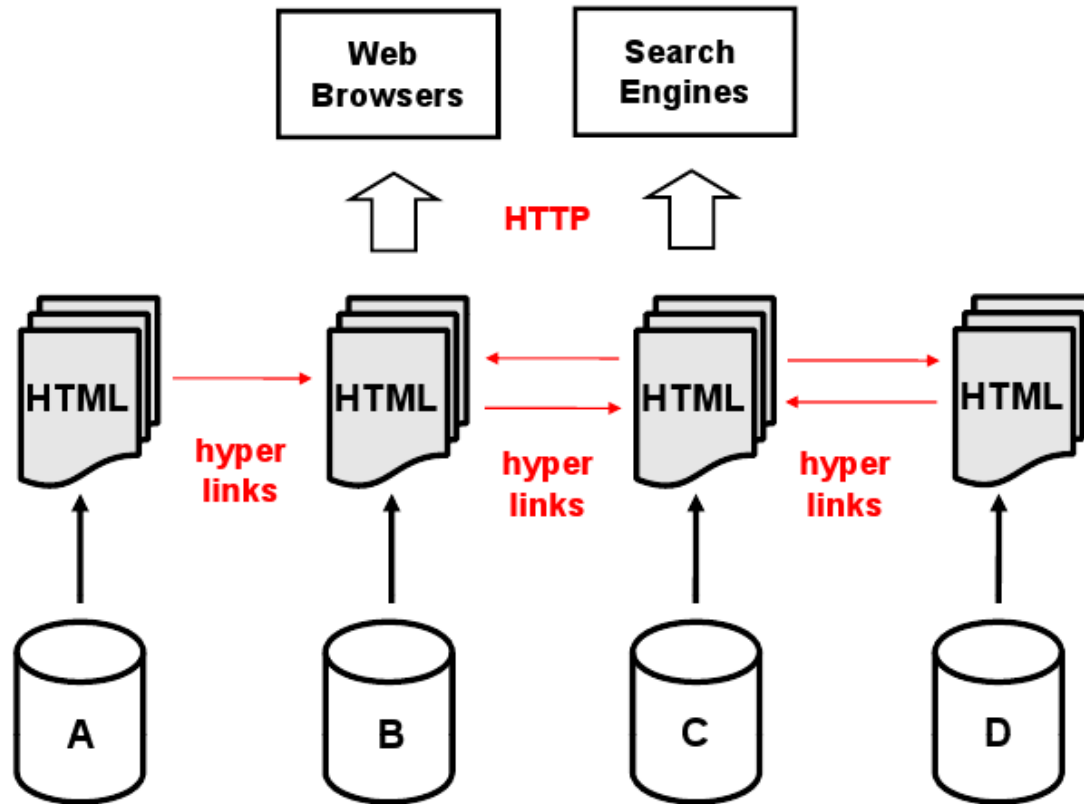
Web de dados (2006)
URI - RDF

Web Social (2003)



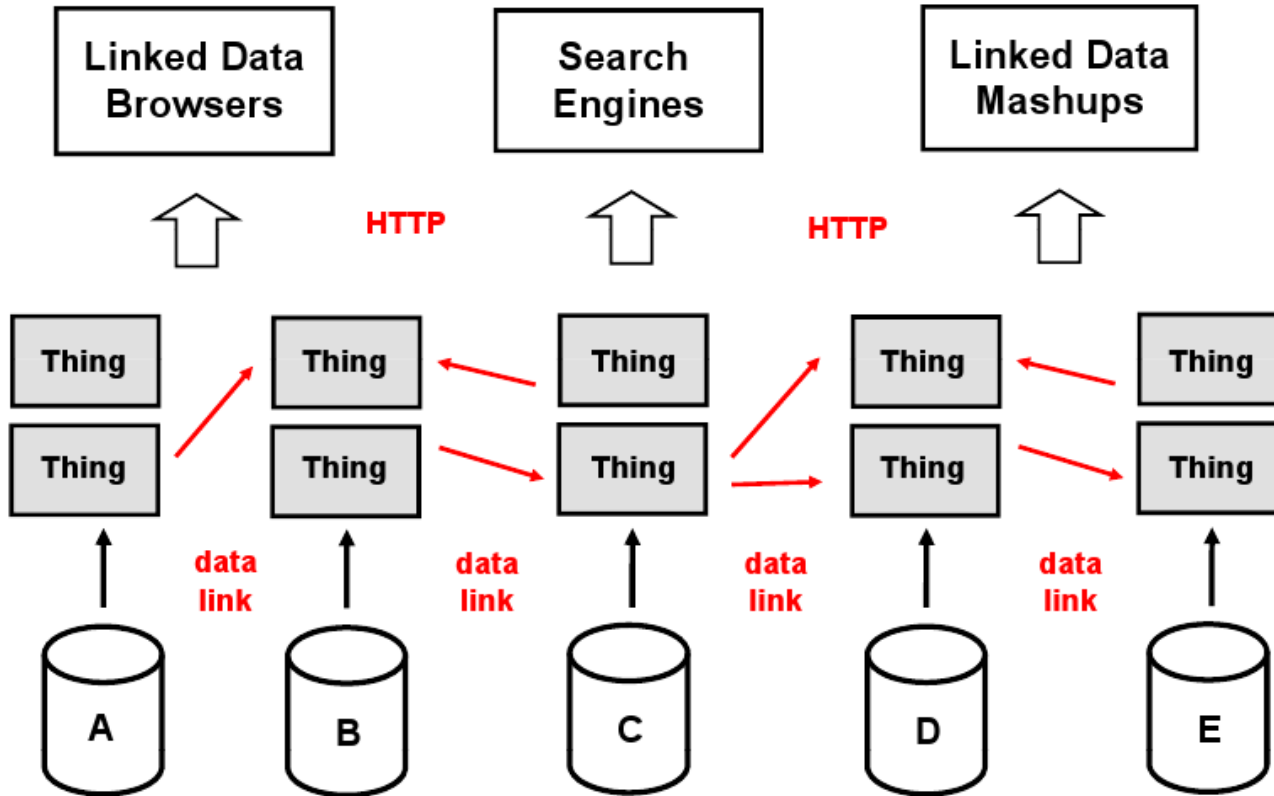
Web (1992)
HTTP - URI
HTML/CSS/JavaScript

Futuro da Web



Futuro da Web

RDF + HTML5



Futuro da Web

HTML 5 [HyperText Markup Language]



Futuro da Web

HTML 5 [HyperText Markup Language]



- 1991 – html tag – Tim Berners Lee
- 1994 – HTML 2 - já incluía tag
- 1997 – HTML 3.2
- 1999 – HTML 4.01
- 2000 – XHTML 1.0
- 2001 – XHTML 1.1 – CSS
- 20... – Ian Hickson (Opera) propõe estender HTML:
Web Forms 2.0, Web Apps 1.0
- 2004 – Apple, Mozilla e Opera criam WHAT WG
(Web Hypertext Application Technology Working Group)
- 2007 – W3C retorna HTML Working Group
- 2009 – W3C descontinua XHTML
- 2010-2011 – Apple, Google, Microsoft, Mozilla e Opera implementam HTML5



Futuro da Web

HTML 5 [HyperText Markup Language]

Maio/2011 – Last Call



Processo W3C padronização :

- *Working Draft* (Rascunho de Trabalho)

Last Call

- *Candidate Recommendation* (Candidato a Recomendação):

Chamada para implementação

- *Proposed Recommendation* (Proposta de Recomendação):

Chamada para revisão de proposta de recomendação

- *W3C Recommendation* (Recomendação W3C):

- **Publicação da recomendação**



Futuro da Web

HTML 5 [HyperText Markup Language]

Novos elementos (semânticos)

Formulários

Geolocalização

<canvas>

<video>

<audio>



Futuro da Web



HTML 5 [HyperText Markup Language] Novos elementos (semânticos)

<article>

<section>

<header> & <footer>

<hgroup> (agrupamento <h1> <h2> ...)

<aside>

<figure> (agrupamento imagens e legendas)

Lista completa: <http://www.w3.org/TR/html-markup/>



Futuro da Web

HTML 5 [HyperText Markup Language]

div.container

div.header

div.nav

div.article

div.content

h1.title

div.links

div.sidebar

div.body

div.footer

HTML4 + CSS

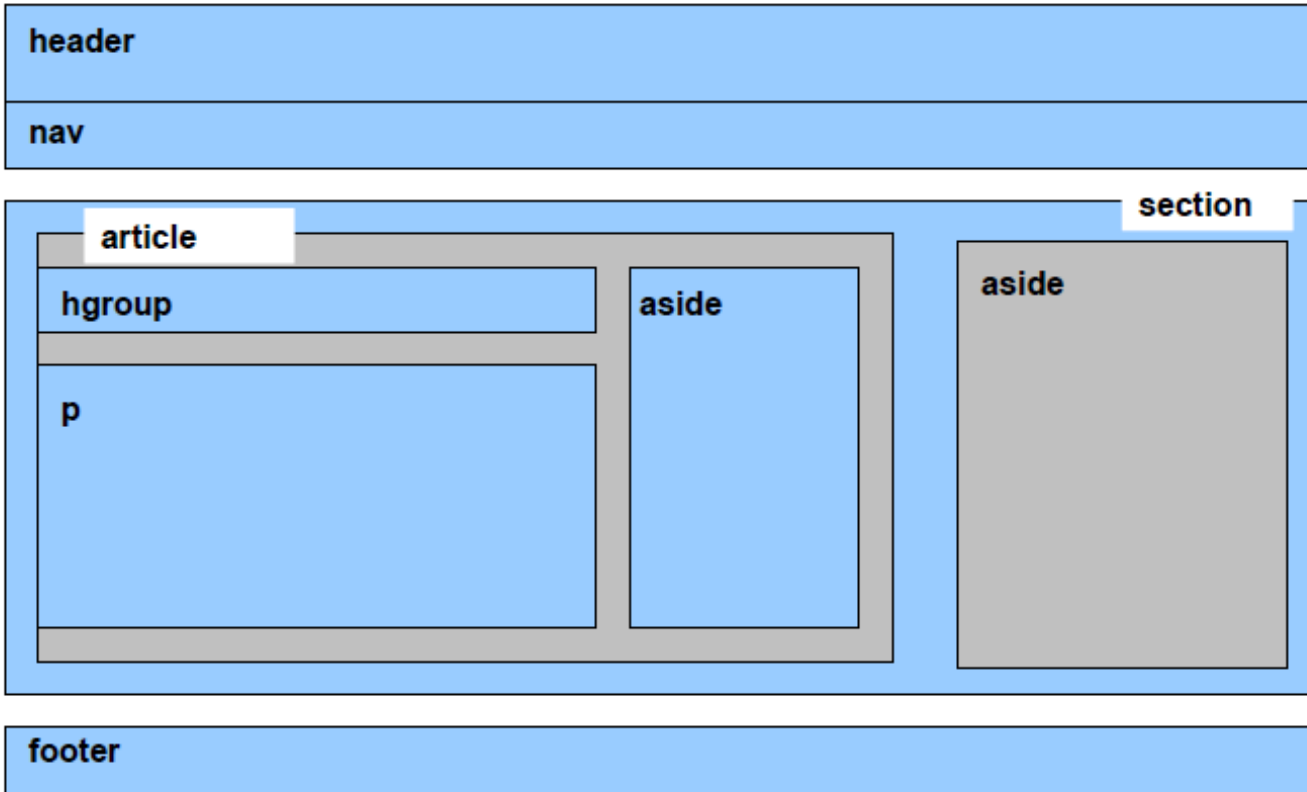


Futuro da Web

HTML 5 [HyperText Markup Language]



section.container



Novos elementos (semânticos)

HTML5 + CSS

Futuro da Web

HTML 5 [HyperText Markup Language]

<http://www.whatwg.org/demos/company-home/>

HTML



Novos
elementos
(semânticos)

HTML5 + CSS

The screenshot shows a web page with the following structure:

- Header:** Logo for 'Some Company' with the slogan 'We make moneh! This is a slogan by the way.' Navigation links: Homepage, Archive, About me, Contact. Search bar with a 'Search' button.
- Main Content:**
 - Section: 'Successfully creating chaos' with a paragraph: 'We are fictional company and we offer services in [insert field of expertise] for [insert target audience]. Feel free to [contact us](#) if you have any questions.'
 - Section: 'Our services' containing three service boxes:
 - Service 1:** Some annotation goes here. It may sperad on a few lines.
 - Service 2:** Some annotation goes here. It may sperad on a few lines.
 - Service 3:** Some annotation goes here. It may sperad on a few lines.
 - Section: 'Stunning news' (partially visible).
- Right Sidebar:**
 - Section: 'Sections' with a list of subpages: Subpage 1, Subpage 2, Nested Subpage 1, Nested Subpage 2, Nested Subpage 3, Nested Subpage 4, Subpage 3, Subpage 4.
 - Section: 'Quick Contact' with form fields for Name (Johnny Testman), Address (Street 5), and City.



Futuro da Web

HTML 5 [HyperText Markup Language] Formulários



<http://diveintohtml5.org/examples/input-type-number-min-max-step.html>

<http://diveintohtml5.org/examples/input-type-date.html>

```
<form>  
  <label for="CEP">CEP:  
    <input type="text" id="CEP" required pattern="\d{5}-?\d{3}" />  
  </label>  
  <input type="submit" value="Enviar" />  
</form>
```



Futuro da Web

HTML 5 [HyperText Markup Language] VÍDEO



```
<video id='VideoResource' style='border: black 1px solid; margin-left: 4px; margin-top: 4px; margin-bottom: 0px;' poster='/2009/04/coffee.png'>
```

```
<source src="http://media.w3.org/2009/02/ThisIsCo1961_tiny.mp4" type="video/mp4"/>  
<source src="http://media.w3.org/2009/02/ThisIsCo1961_tiny.ogv" type="video/ogg"/>
```

```
<text lang='en' type="application/ttaf+xml" src="/2009/02/ThisIsCoffee61_captions.xml"></text>
```

```
<div style='width: 320px; height: 240px; color: white'>  
  <p>No Video Support.</p>  
</div>
```

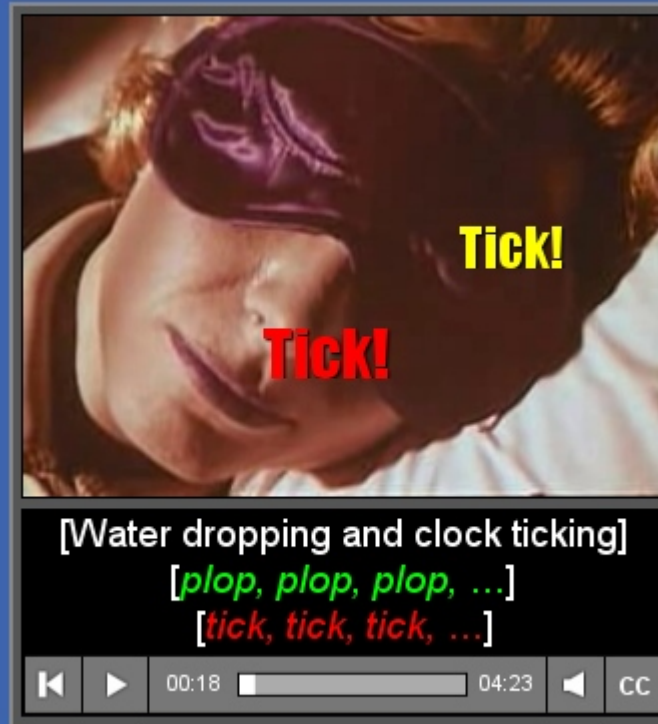
```
</video>
```

<http://www.w3.org/2010/Talks/0430-www2010-plh/video-player.xhtml>



Futuro da Web

HTML 5 [HyperText Markup Language] VÍDEO



Futuro da Web

HTML 5 [HyperText Markup Language]



Codecs/ container	IE	Firefox	Safari	Chrome	Opera	iPhone	Android
Theora+Vorbis+ Ogg	.	3.5+	.	5.0+	10.5+	.	.
H.264+AAC+ MP4	9.0+	.	3.0+	.	.	3.0+	2.0+
WebM	9.0+	4.0+	.	6.0+	10.6+	.	?

Futuro da Web

HTML 5 [HyperText Markup Language] <http://szenesprachenwiki.de/words/canvas>



TRENI
EURO

<canvas>

Neue Wörter Wörterbuch Konfetti FAQ Registrierung oder Log-in

DUDEN

Neues Wörterbuch
der Szenesprachen

Games & Netwc



» Buch bei Amazon kaufen

spoken

Musik von "The Spoken Project" Sc



Futuro da Web

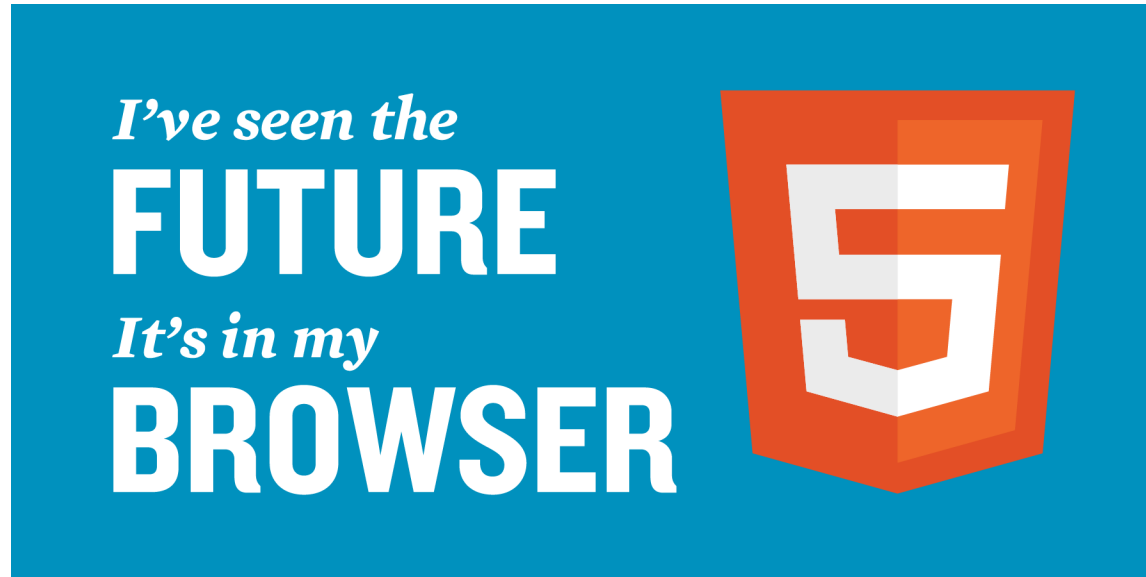
HTML 5 [HyperText Markup Language]



- <http://www.whatwg.org/>
- <http://www.whatwg.org/demos/company-home/>
- <http://www.w3.org/2009/03/web-demo.xhtml>
- <http://www.w3.org/html/wiki/Demos>
- <http://www.w3.org/html/planet/>
- <http://www.w3.org/html/logo/>
- <http://www.w3.org/TR/ttaf1-dfxp/>
- <http://acessodigital.net/video-html5/video-acessibilidade-br.html>
- <http://www.w3c.br/cursos/html5/banco.htm>



Futuro da Web



Futuro da Web

HTML



I've seen the
FUTURE
It's in my
BROWSER



**Conectividade – CSS3 – Acesso de dispositivos –
Gráficos 3D e Efeitos – Multimídia – Performance e
Integração – Semântica – Offline e Armazenamento**



Futuro da Web

BBC - Music - Eric Clapton

http://www.bbc.co.uk/music/artists/618b6900-0618-4f1e-b835-bccb17f84294

Netvibes Feedly Social Private Mailing lists SW Python RDFa it! Bookmarklets Add Zemanta bit.ly To Mendeley TinyURL To Faviki Dokuwiki

MUSIC BETA GENRES ARTISTS REVIEWS NEWS BLOG QUICK FIND Enter an artist name ...

BBC Music > Artists > Eric Clapton

Eric Clapton

Born 30 March 1945.

MOST PLAYED ON BBC RADIO 2

David Redfern/Redferns

Biography

Eric Patrick Clapton, CBE (born 30 March 1945) is an English blues-rock guitarist, singer, songwriter and composer. Clapton has been inducted into the Rock and Roll Hall of Fame as a solo performer, as a member of rock bands; the Yardbirds and Cream. Clapton is the only person ever to be inducted three times. Often viewed by critics and fans alike as one of the most important and influential guitarists of all time, Clapton was ranked fourth in Rolling Stone magazine's list of the "100 Greatest Guitarists of All Time" and #53 on their list of the Immortals: 100 Greatest Artists of All Time.

Latest Tracks Played On The BBC

- Promises**
BBC Radio 2 | Ken Bruce 22/02/2010
- Bad Love**
BBC Radio 2 | Alex Lester 22/02/2010
- Lay Down Sally**
BBC Radio 2 | Chris Evans Breakfast 18/02/2010
- I Ain't Gonna Stand For It**
BBC Radio 2 | Alex Lester 15/02/2010
- Wonderful Tonight**
BBC Radio 2 | Ken Bruce 10/02/2010

Audio Previews From Latest Album Review

- Me And Mr Johnson**
- 8 Milkcow's Calf Blues
- 10 Come on in My Kitchen

Futuro da Web



BBC - Music - Eric Clapton

http://www.bbc.co.uk/music/artists/618b6900-0618-4f1e-b835-bccb17f84294

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this focus, he is credited as an innovator in a wide variety of genres. These include blues-rock (with John Mayall & the Bluesbreakers and The Yardbirds) and psychedelic rock (with Cream). Clapton's chart success was not limited to the blues, with chart-toppers in Delta Blues (Me and Mr. Johnson), pop ("Change the World") and reggae (Bob Marley's "I Shot the Sheriff") (He is often credited for bringing reggae and Bob Marley to the mainstream.) Two of his most successful recordings were the hit love song "Layla", which he played with the band Derek and the Dominos, and Robert Johnson's "Crossroads", which has been his staple song since his days with Cream.

[Read more at Wikipedia...](#)

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Links & Information

LINKS

- Official homepage at [ericclapton.com](#)
- Fanpage at [whereseric.com](#)
- Wikipedia article on [Eric Clapton](#)
- MySpace at [myspace.com/ericclapton](#)
- Last.fm page on [Eric Clapton](#)
- MusicBrainz entry on [Eric Clapton](#)

MEMBER OF Derek and the Dominos, Blind Faith (1968-1969), Cream (1966-1968), John Mayall & The Bluesbreakers (1965-1966), The Yardbirds (1963-1965)




COLLABORATED ON [J.J. Cale & Eric Clapton](#), [Eric Clapton & The Immediate All Stars](#), [Eric Clapton & The Impressions](#), [Eric Clapton & Jimmy Page](#), [Eric Clapton & David Sanborn](#), [Eric Clapton & Stan Webb's Chicken Shack](#), [Eric Clapton & The Powerhouse](#), [Eric Clapton & Stevie Ray Vaughan](#), [Eric Clapton & Marc Shaiman](#), [The Dirty Mac](#), [Bob Dylan, Roger McGuinn, Tom Petty, Neil Young, Eric Clapton & George Harrison](#), [Jimmie Vaughan](#), [Eric Clapton, Bonnie Raitt, Robert Cray, B.B. King, Buddy Guy, Dr. John & Art Neville](#), [Elton John & Eric Clapton](#), [Michael Kamen, Eric Clapton and David Sanborn](#), [B.B. King & Eric Clapton](#), [Mark Knopfer & Eric Clapton](#), [Paul McCartney & Eric Clapton](#), [Sting with Eric Clapton](#), [Steve Winwood & Eric Clapton](#)

Links & information come from MusicBrainz. You can add or edit information about [Eric Clapton at musicbrainz.org](#). Find out more about our use of this data. The BBC is not responsible for the content of external sites

Latest News Stories

Played By

Since December 2008

-  **Alex Lester**
2 BBC Radio 2
-  **Steve Wright in the Afternoon**
2 BBC Radio 2
-  **Sarah Kennedy**
2 BBC Radio 2
-  **Wake Up to Wogan**
2 BBC Radio 2
-  **Ken Bruce**
2 BBC Radio 2
-  **Steve Wright's Sunday Love Songs**
2 BBC Radio 2
-  **Jeremy Vine**
2 BBC Radio 2

Information displayed about artists played on BBC programmes is incomplete [out more about this artist play count information](#).



Futuro da Web



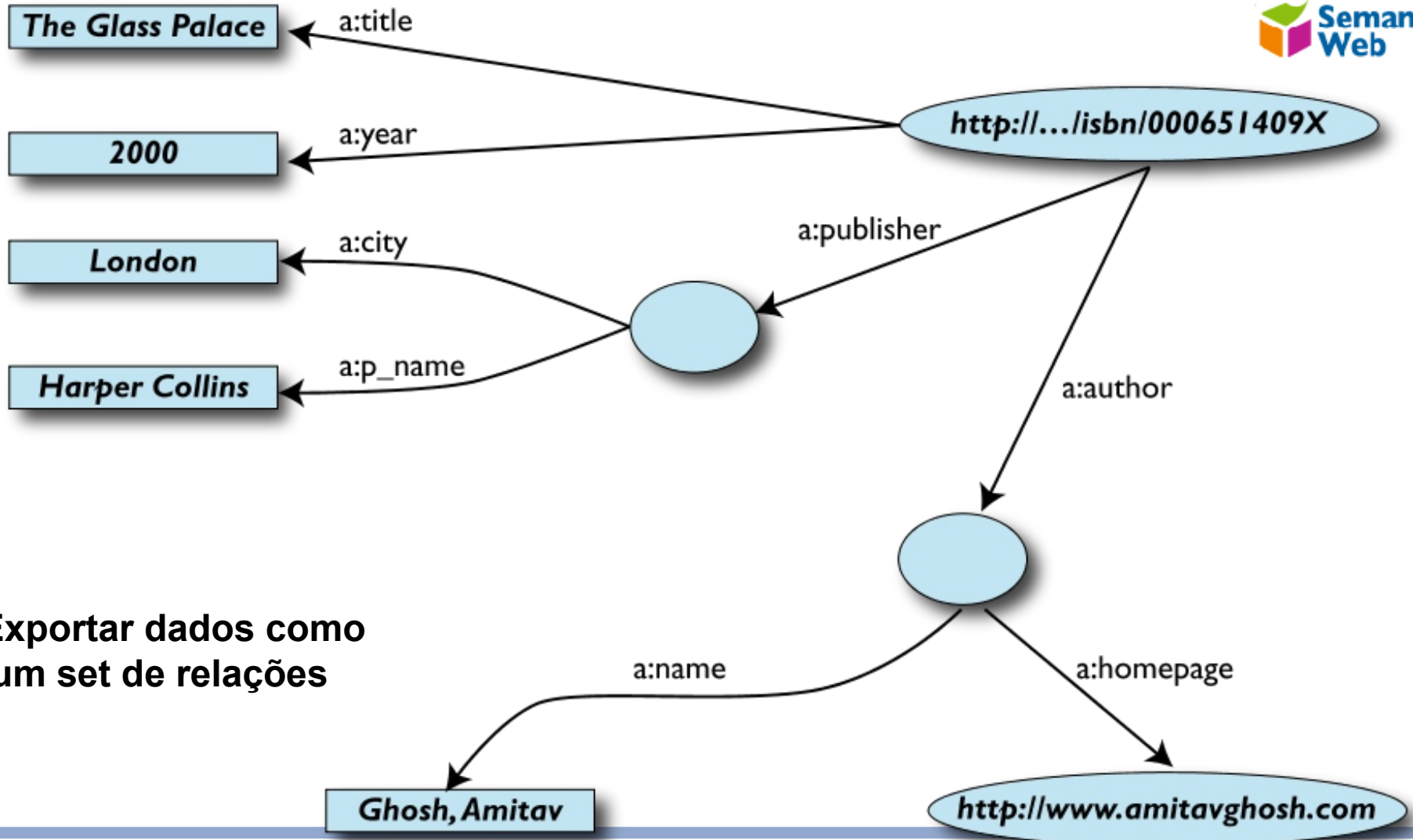
ID	Author	Title	Publisher	Year
ISBN 0-00-6511409-X	id_xyz	The Glass Palace	id_qpr	2000

ID	Name	Homepage
id_xyz	Ghosh, Amitav	http://www.amitavghosh.com

ID	Publisher's name	City
id_qpr	Harper Collins	London

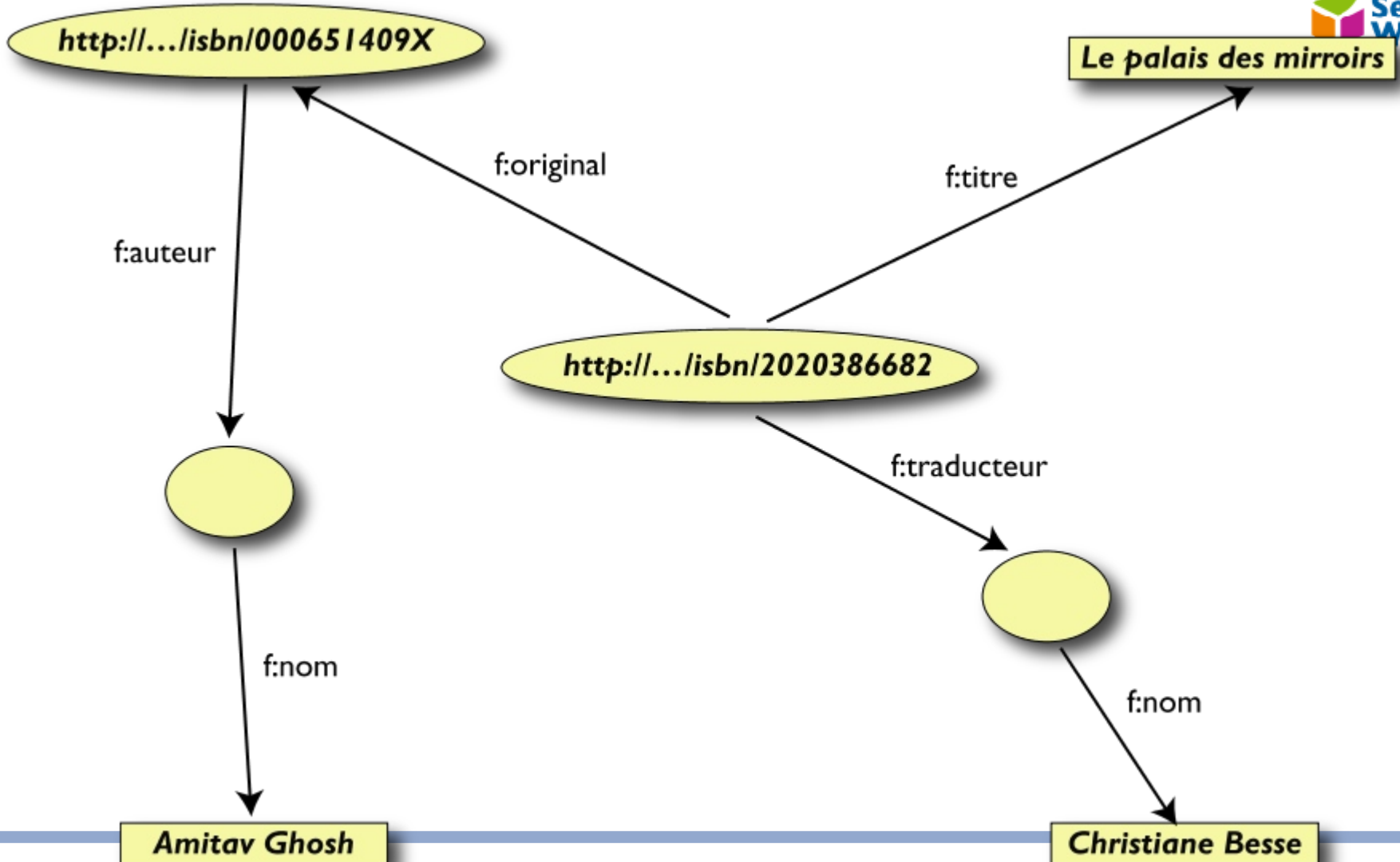


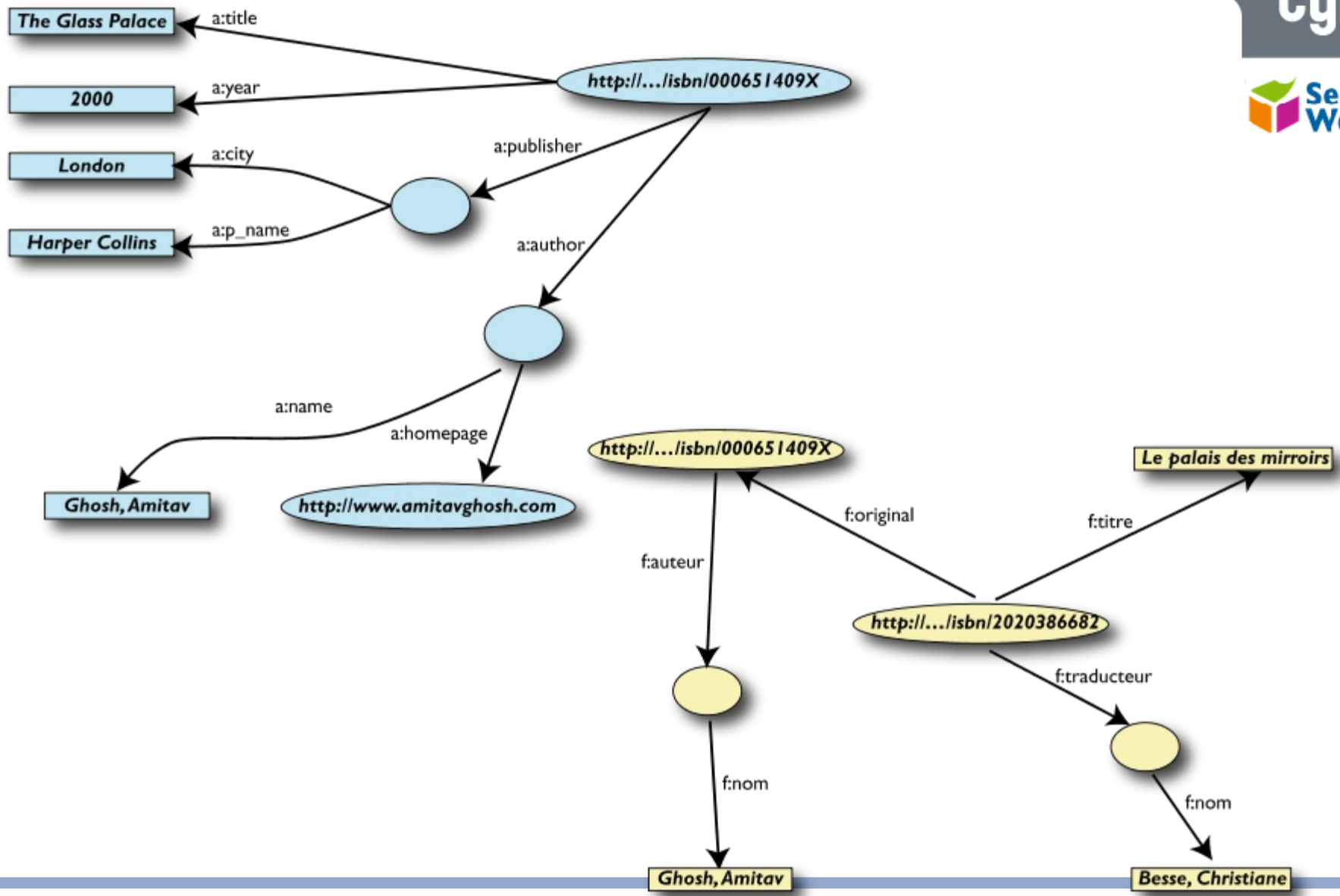
Futuro da Web

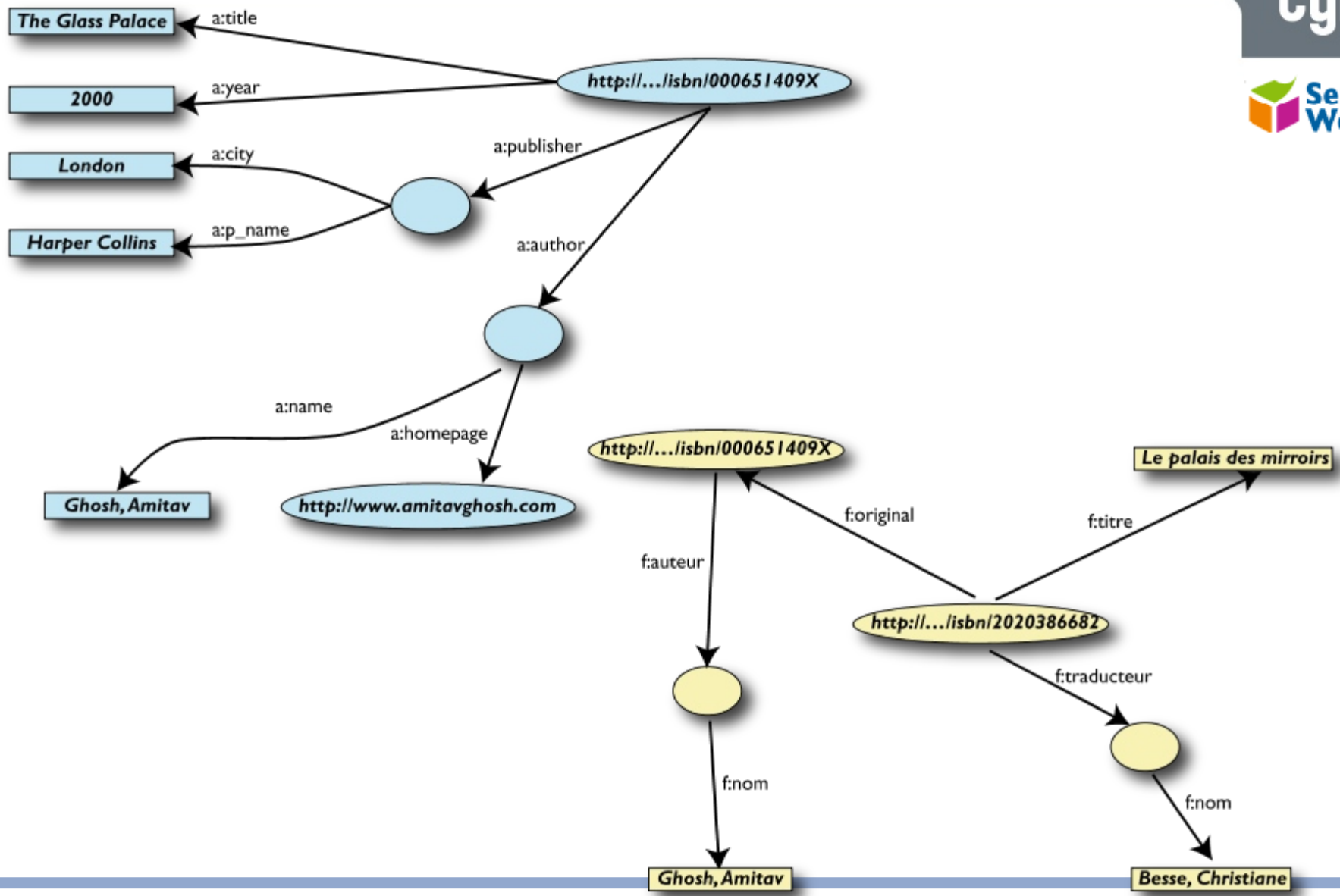


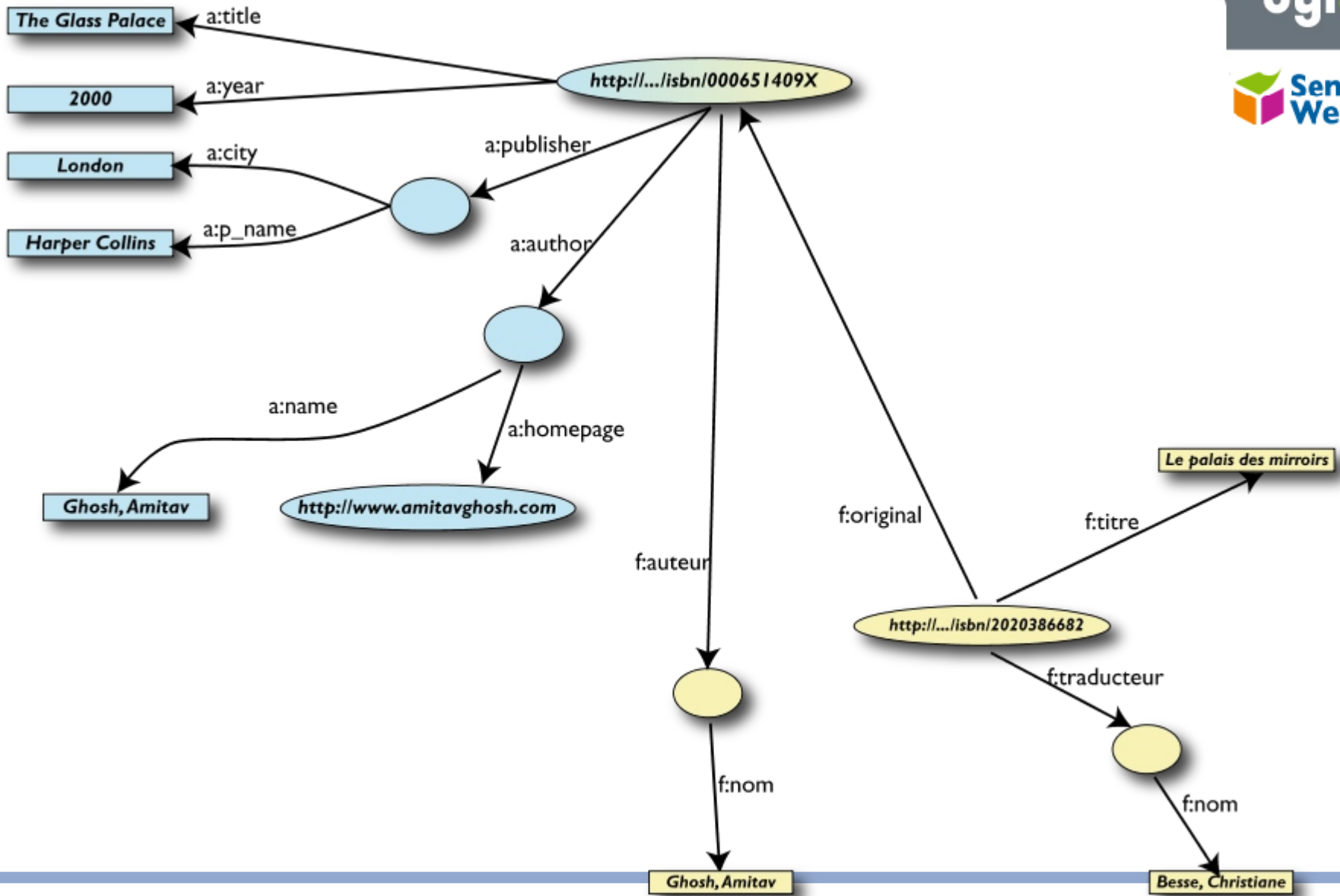
Exportar dados como um set de relações

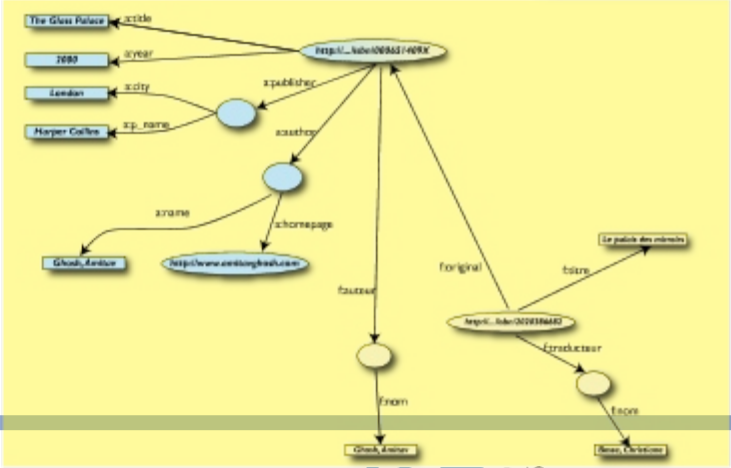
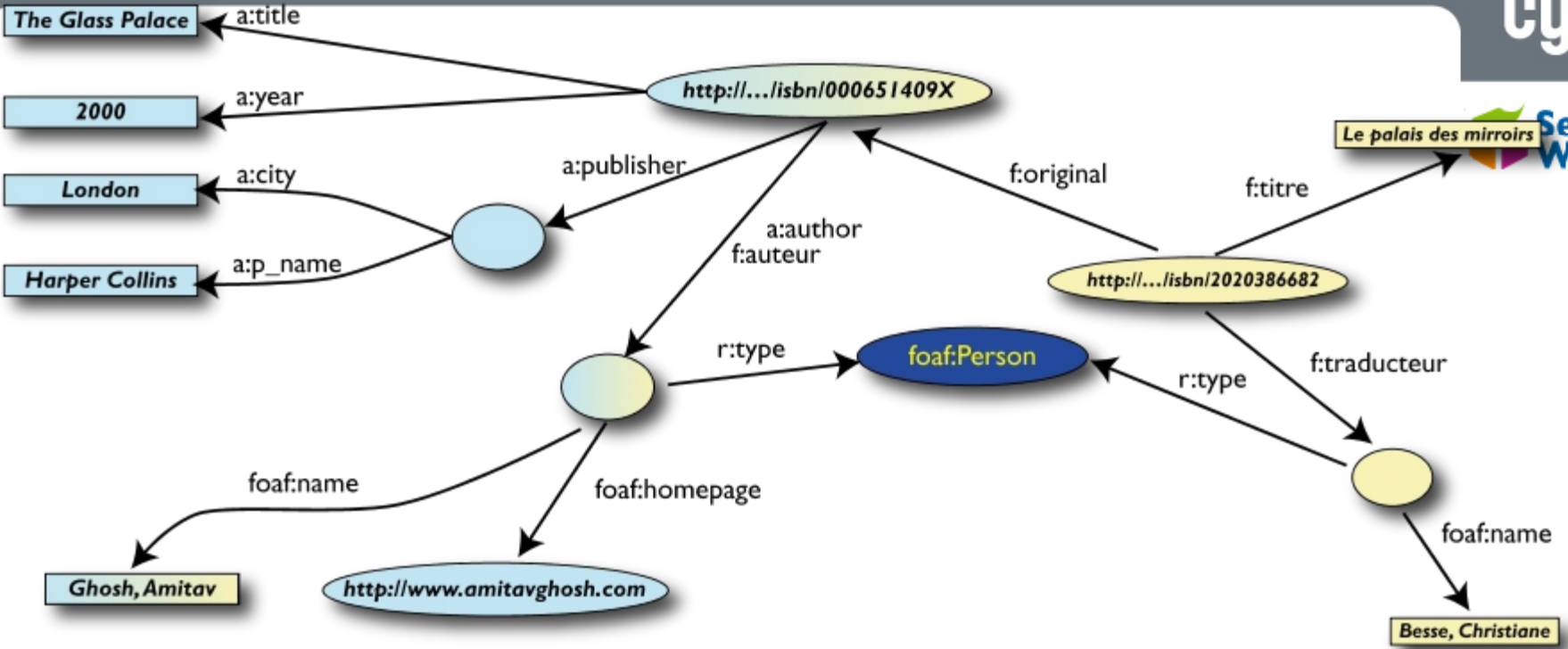
Futuro da Web

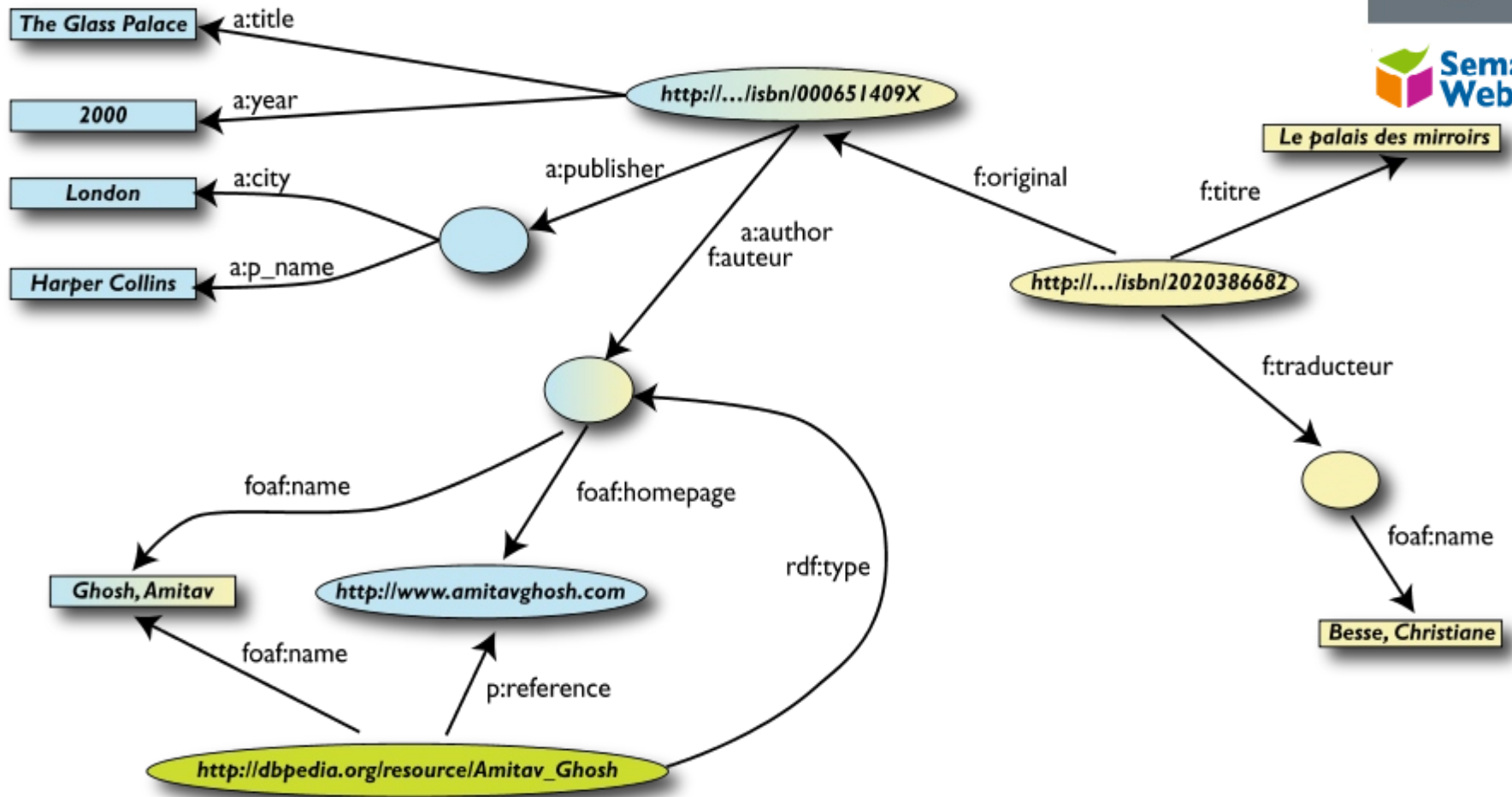


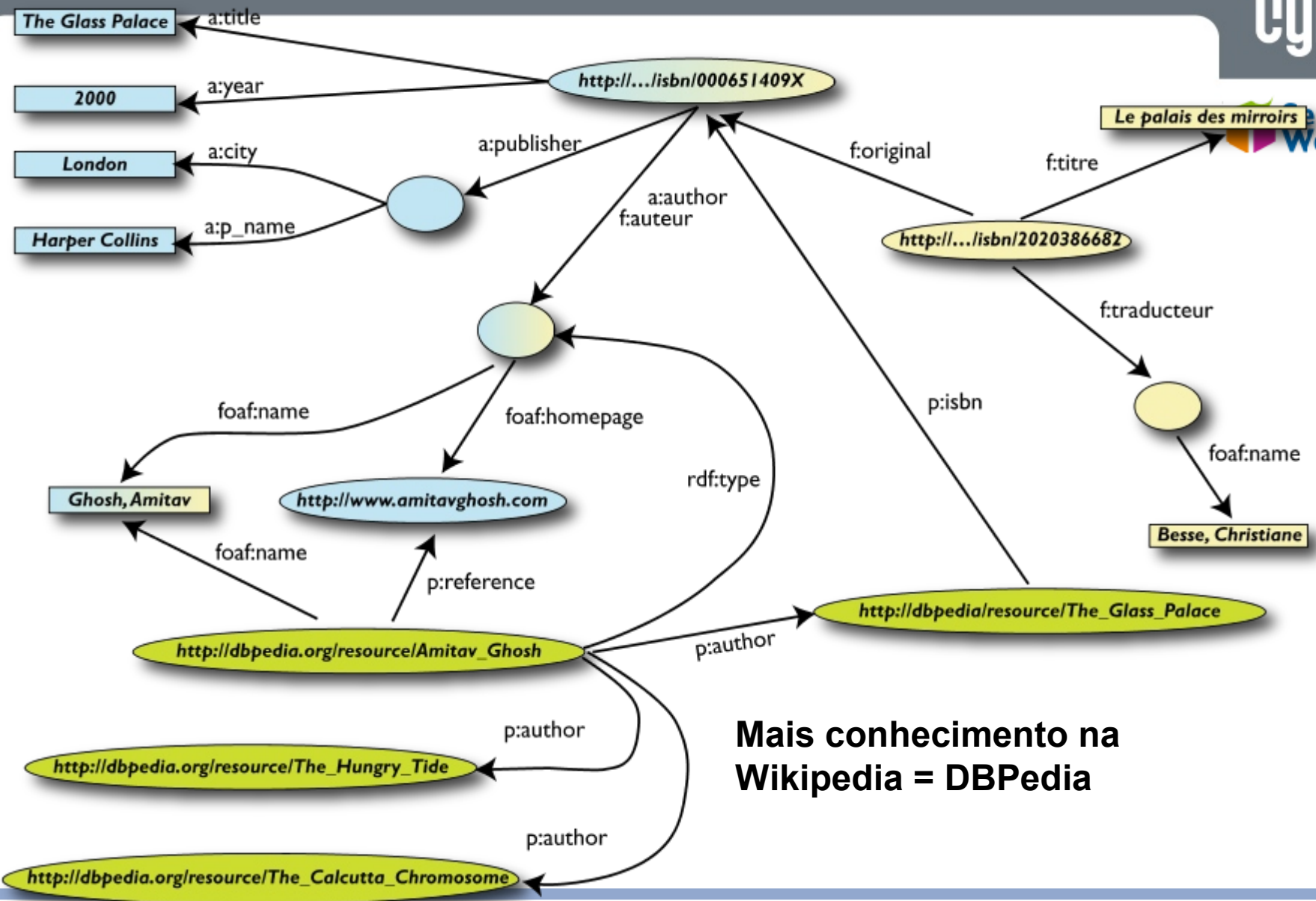




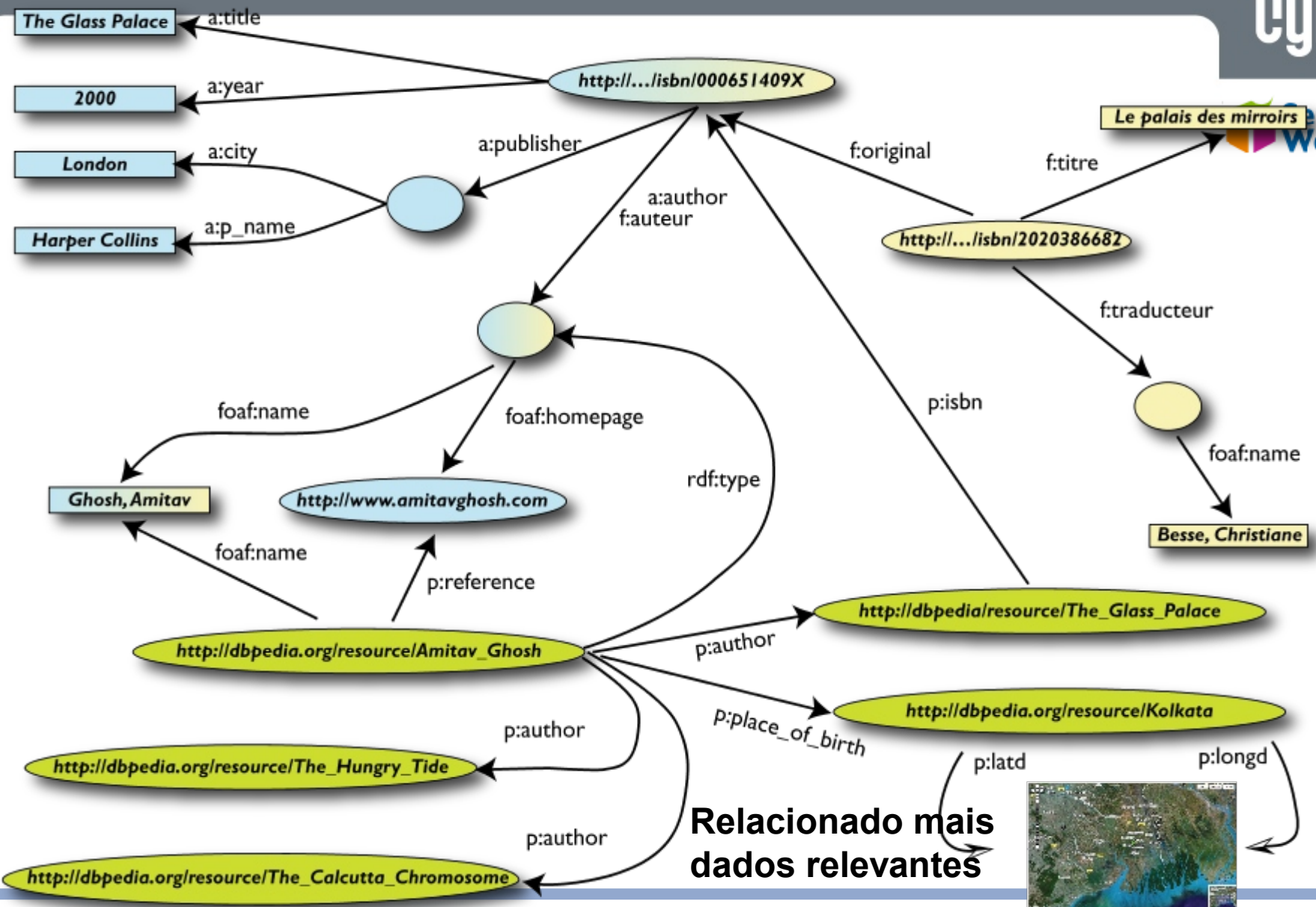








Mais conhecimento na Wikipedia = DBPedia



Relacionado mais dados relevantes



Futuro da Web



Web de dados
Web das coisas



Web Semântica



Integração
de dados na web



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Carlinhos Cecconi, cecconi@nic.br

Obrigado!

<http://www.w3c.br>

