

Web Semântica e Processamento de Linguagem Natural na prática

Newton Calegari

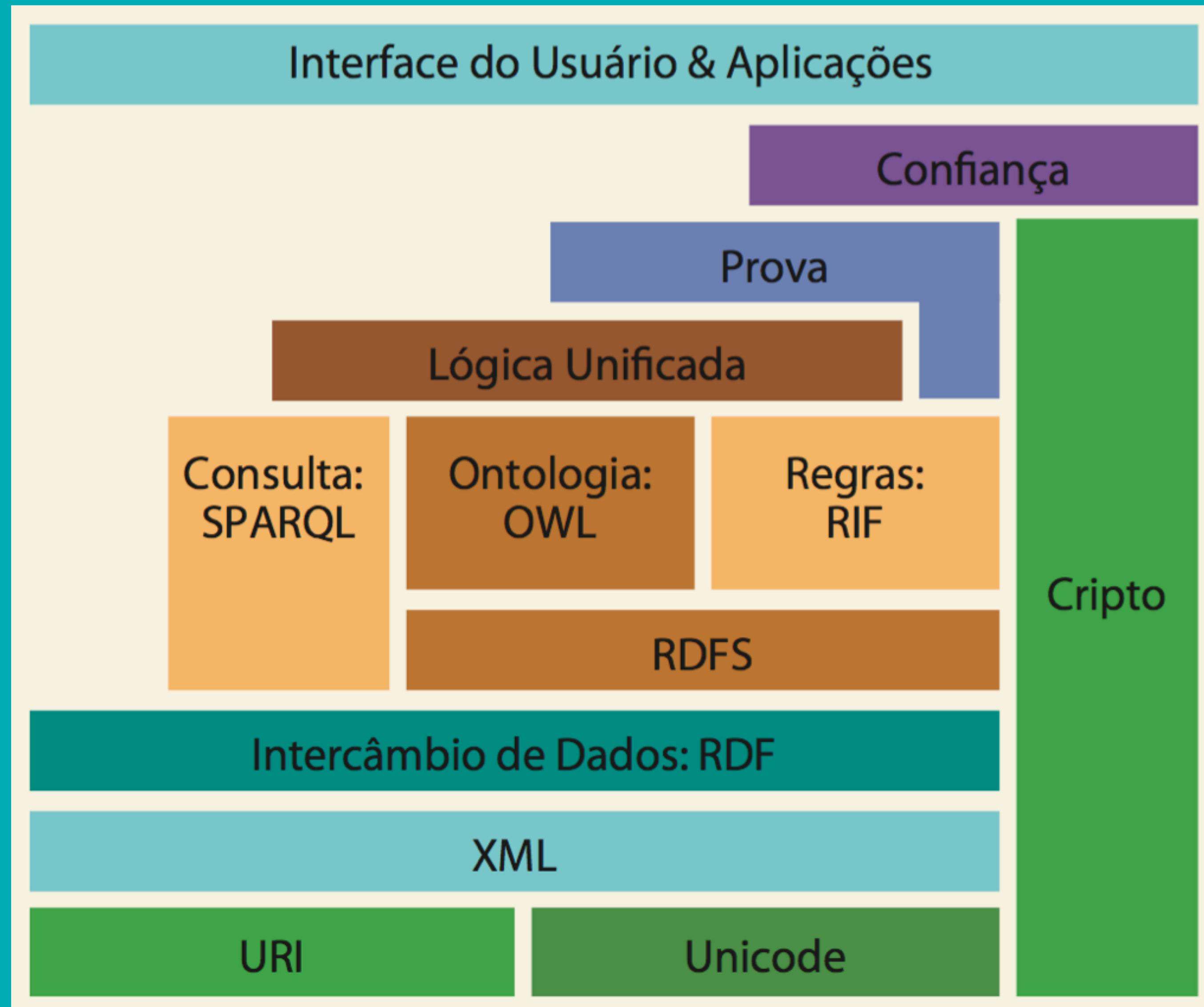


Descrição de dados e RDFa

Ontologias e vocabulários

Especificação RDFa

Aplicação prática de RDFa



Semantic Web Stack

ONTOLOGIAS E VOCABULÁRIOS

machine-readable

modelo abstrato

Uma ontologia é uma especificação explícita e formal de uma conceptualização compartilhada

*expressa em termos
(conceitos, propriedades)*

baseada em consenso

Utilizamos ontologias e vocabulários para descrever dados publicados na Web

Full Hierarchy

Schema.org is defined as two hierarchies: one for textual property values, and one for the things that they describe.

Thing

This is the main schema.org hierarchy: a collection of types (or "classes"), each of which has one or more parent types. Although a type may have more than one super-type, here we show each type in one branch of the tree only. There is also a parallel hierarchy for data types.

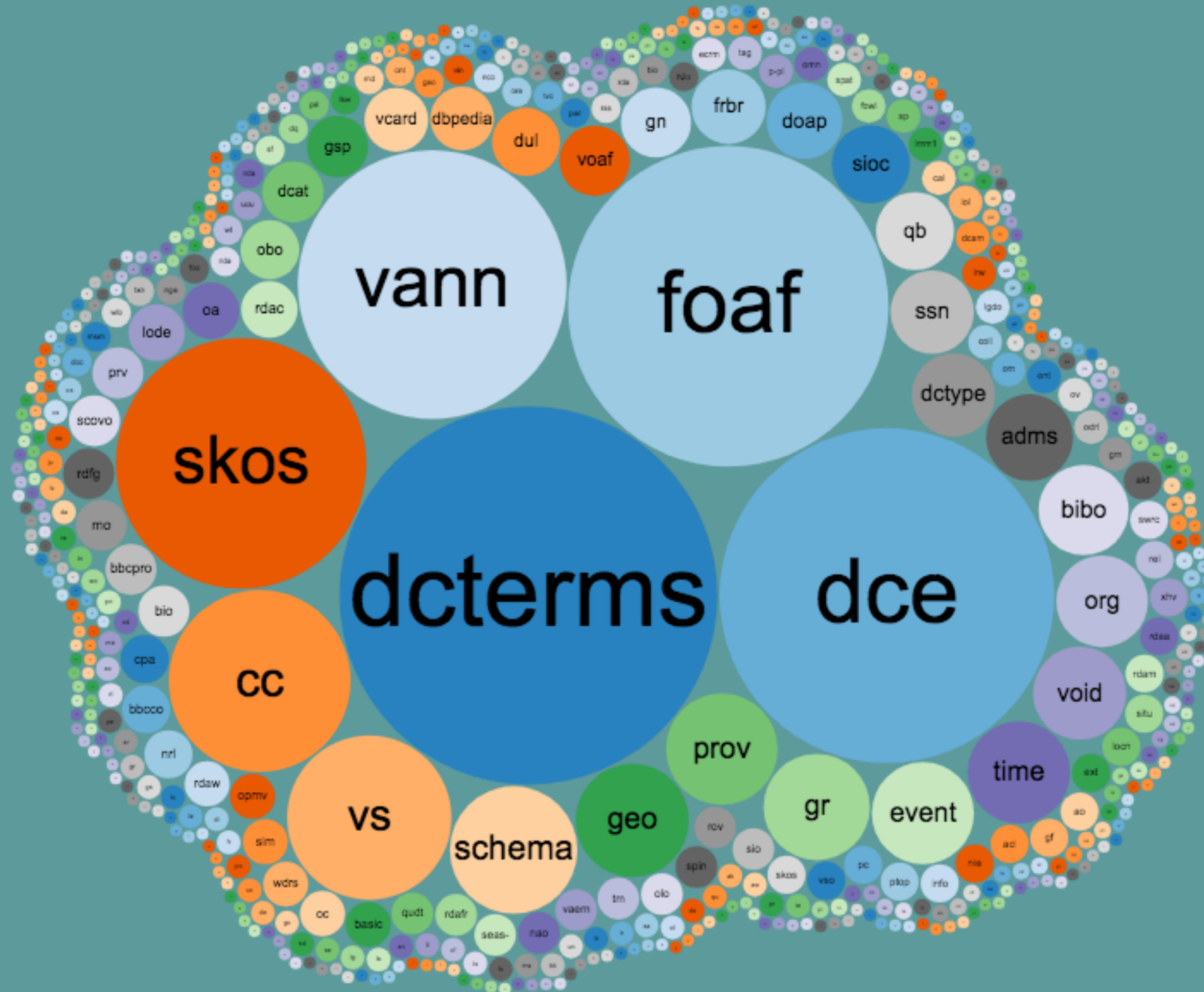
Select vocabulary view:

- ☒ Core vocabulary
- ☐ Core plus all extensions

Core plus extension vocabularies

- Thing
 - Action
 - AchieveAction
 - LoseAction
 - TieAction
 - WinAction
 - AssessAction

Linked Open Vocabularies (LOV)



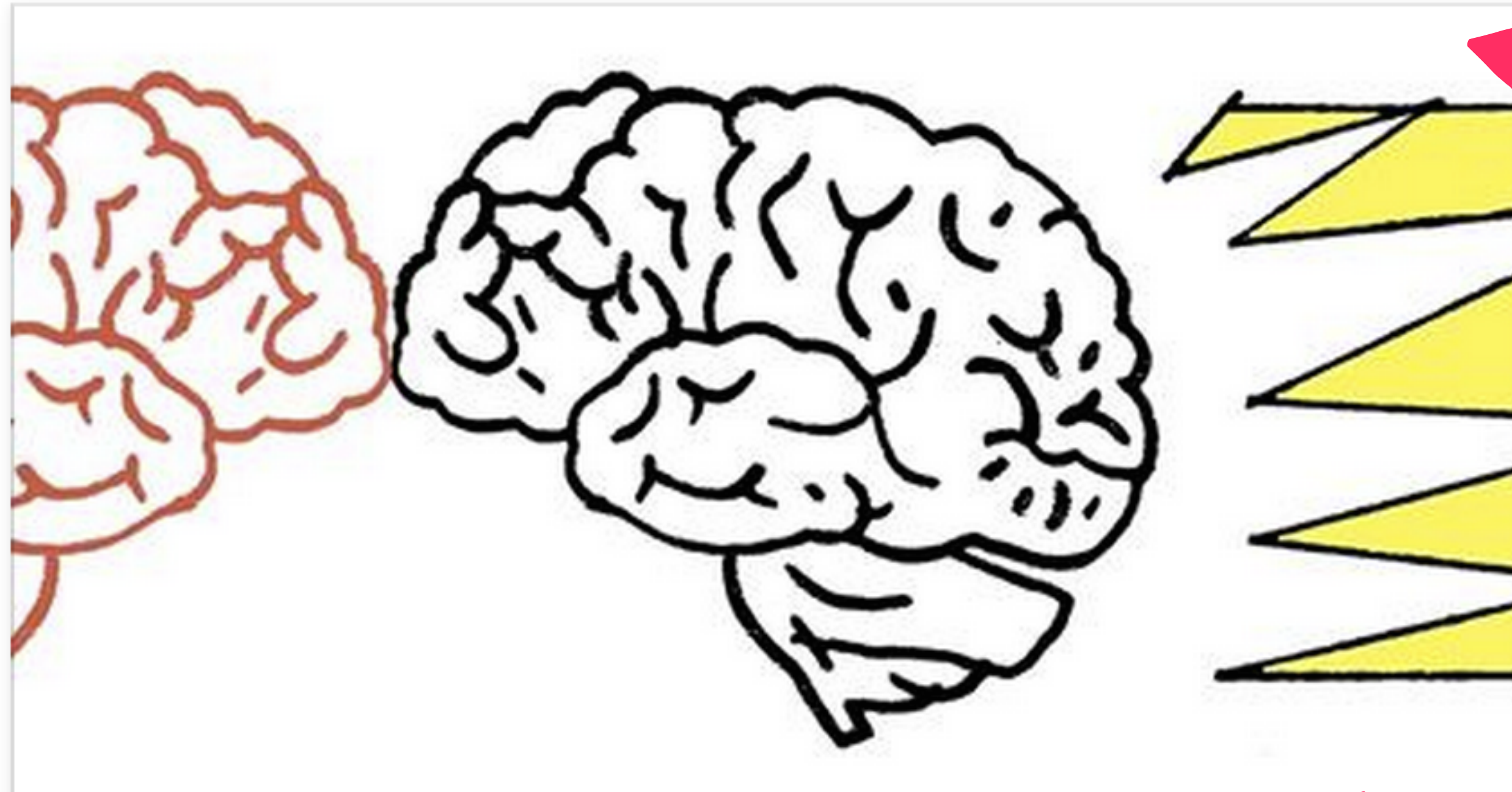
machine-readable **vs** human-readable



The New York Times

35 mins · 🌐

How an identical brainstorming exercise produced very different results in two distinct cultural contexts.



When Great Minds Don't Think Alike

How much does culture influence creative thinking?

NYTI.MS | BY STEPHEN HEYMAN

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<https://developers.facebook.com/docs/sharing/webmasters#markup>

HTML

RDF em atributos no HTML



RDFa Lite 1.1 - Second Edition

W3C Recommendation 17 March 2015

This version:

<http://www.w3.org/TR/2015/REC-rdfa-lite-20150317/>

Latest published version:

<http://www.w3.org/TR/rdfa-lite/>

Implementation report:

<http://www.w3.org/2010/02/rdfa/wiki/CR-ImplementationReport>

Previous version:

<http://www.w3.org/TR/2014/PER-rdfa-lite-20141216/>

Previous Recommendation:

<http://www.w3.org/TR/2012/REC-rdfa-lite-20120607/>

Editor:

[Manu Sporny](#), [Digital Bazaar, Inc.](#)

Please check the [errata](#) for any errors or issues reported since publication.

This document is also available in this non-normative format: [diff to previous version](#)

The English version of this specification is the only normative version. Non-normative [translations](#) may also be available.

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Abstract

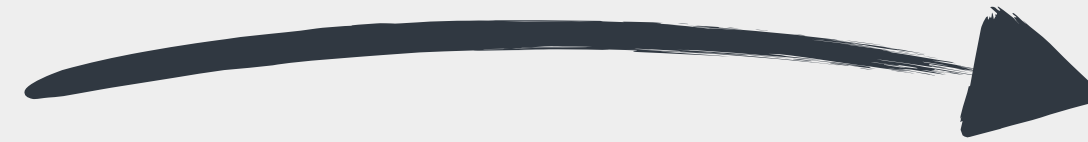
RDFa Lite is a minimal subset of RDFa, the Resource Description Framework in attributes, consisting of a few attributes that may be used to express machine-readable information. This document defines the syntax and semantics of the subset, and provides examples of its use.

RDFa em HTML5

Mas RDFa pode ser utilizado também em conjunto com outras linguagens de marcação, como SVG, XHTML e outras linguagens baseadas em XML

RDFa (Lite)

***4 propriedades
para começarmos***



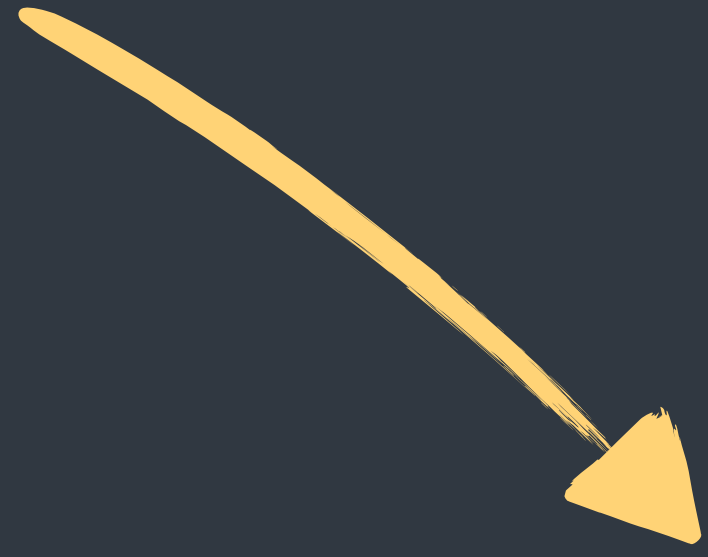
**vocab
property
typeof
content**

<p>

0 FrontInBH ocorre no dia 06/08/2016!

</p>

@vocab



```
<p vocab="http://schema.org/">
```

0 FrontInBH ocorre no dia 06/08/2016!

```
</p>
```

@typeof

```
<p vocab="http://schema.org/"  
  typeof="Event">
```


0 FrontInBH ocorre no dia 06/08/2016!

```
</p>
```




@property

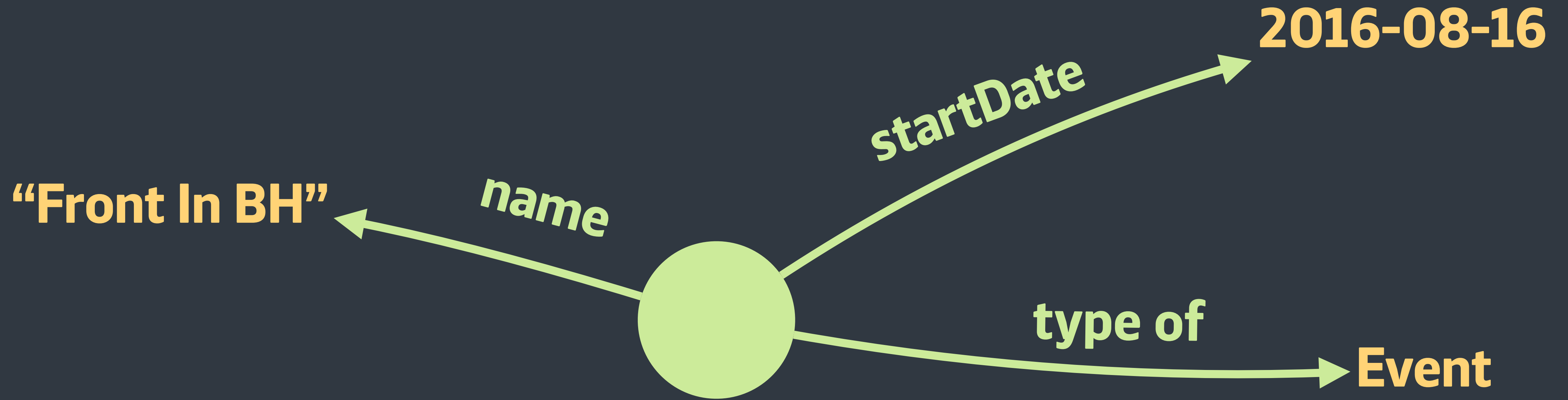
```
<p vocab="http://schema.org/"  
  typeof="Event">  
0 <span property="name">FrontInBH</span>  
  ocorre no dia 06/08/2016!  
</p>
```



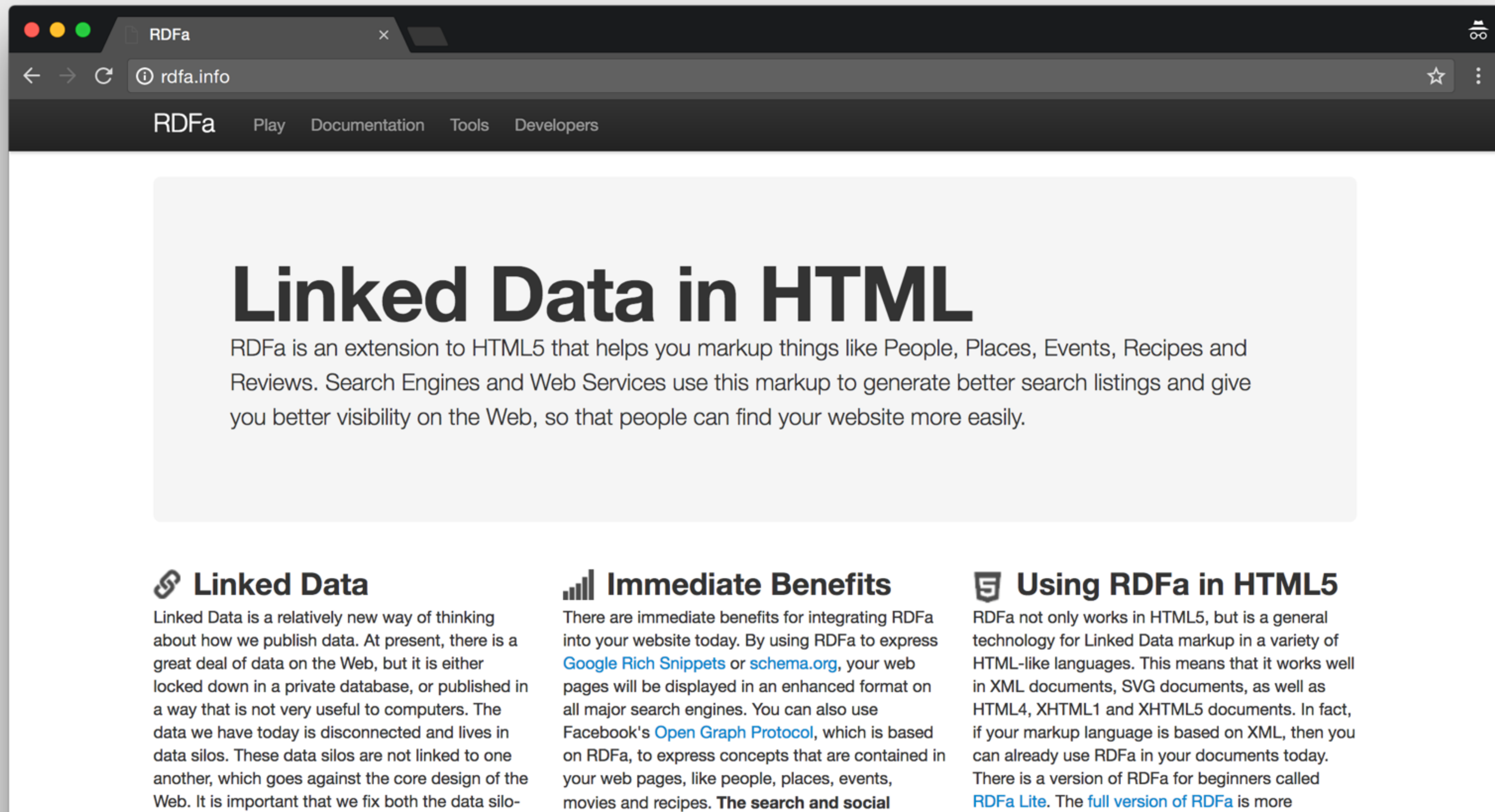
@content

```
<p vocab="http://schema.org/"  
  typeof="Event">  
  0 <span property="name">FrontInBH</span>  
  ocorre no dia  
  <span property="startDate"  
    content="2016-08-16T08:00">  
    06/08/2016</span>!  
</p>
```





www.frontinbh.com.br



<http://rdfa.info>