Structure in Wikipedia

- Title
- Abstract
- Infoboxes
- Geo-coordinates
- Categories
- Images
- Links
  - other language versions
  - other Wikipedia pages
- To the Web
- Redirects
- Disambiguations
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Categories: Busan | Cities in South Korea | Coastal cities
Structure in Wikipedia

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  - Disambiguations
Infobox Templates

```wikitext
{{Infobox Korean settlement
| title       = Busan Metropolitan City
| img         = Busan.jpg
| imgcaption  = A view of the [[Geumjeong]] district in Busan
| hangul      = 부산 광역시
... 
| area_km2    = 763.46
| pop         = 3635389
| popyear     = 2006
| mayor       = Hur Nam-sik
| divs        = 15 wards (Gu), 1 county (Gun)
| region      = [[Yeongnam]]
| dialect     = [[Gyeongsang]]
}}
```

RDF representation

dbp:Busan  dbp:title "Busan Metropolitan City"
dbp:Busan  dbp:hangul "부산 광역시" @Hang
dbp:Busan  dbp:area_km2 "763.46"^xsd:float
dbp:Busan  dbp:pop "3635389"^xsd:int
dbp:Busan  dbp:region dbp:Yeongnam
dbp:Busan  dbp:dialect dbp:Gyeongsang
...
Creating Knowledge out of Interlinked Data

A closer look at infoboxes

George A. Romero
Born: George Andrew Romero
February 4, 1940 (age 69)
New York, NY, U.S.
Occupation: film director
screenwriter
editor
actor
Spouse(s): Christine Forrest (1981–present)

Björk
Björk performance at Rock en Seine, Paris 2007

Background information
Birth name: Björk Guðmundsdóttir
Born: 21 November 1965
(age 43)
Reykjavík, Iceland
Genres: Electronica, alternative
rock, trip hop, IDM
Occupations: Musician, songwriter,
producer, actress,

The Right Honourable
Gordon Brown
MP
Prime Minister of the United Kingdom
Incumbent
Assumed office
27 June 2007
Monarch: Elizabeth II
Preceded by: Tony Blair
Chancellor of the Exchequer
In office
2 May 1997 – 27 June 2007
Prime Minister: Tony Blair
### George A. Romero

**Born**  
George Andrew Romero  
February 4, 1940 (age 69)  
New York, NY, U.S.

**Occupation**  
film director  
screenwriter  
editor  
actor

**Spouse(s)**  
Christine Forrest (1981-present)

---

### Björk

**Born**  
21 November 1965  
(age 43)  
Reykjavik, Iceland

**Genres**  
Electronica, alternative rock, trip hop, IDM

**Occupations**  
Musician, songwriter, producer, actress

---

### The Right Honourable Gordon Brown

**Prime Minister of the United Kingdom**  
Incumbent  
Assumed office  
27 June 2007

**Monarch**  
Elizabeth II  
Preceded by  
Tony Blair

**Chancellor of the Exchequer**  
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Preceded by
Tony Blair

Chancellor of the Exchequer

In office
2 May 1997 – 27 June 2007

Prime Minister
Tony Blair
Creating Knowledge out of Interlinked Data

Björk (Musician)
Occupation = Musician, Actor
Born = 21.12.1965, Reykjavík

Brown (Prime Minister)
office = Prime Minister of the UK
birth_date = 20.4.1951
birth_place = Govan

Romero (Actor)
occupation = Actor, Editor
birthdate = 4.2.1940
birthplace = New York
Creating Knowledge out of Interlinked Data

Björk (Musician)
Occupation = Musician, Actor
Born = 21.12.1965, Reykjavík

Brown (Prime Minister)
office = Prime Minister of the UK
birth_date = 20.4.1951
birth_place = Govan

Romero (Actor)
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occupation = Actor, Editor
birthdate = 4.2.1940
birthplace = New York
• Mappings Wiki
  • Crowdsource the ontology source as well as infobox type & properties
  • http://mappings.dbpedia.org/
  • Everybody can contribute new mappings or improve existing ones
  • ~170 editors

• Correct Semantics:
  • Combine what belongs together (birth_place, birthplace)
  • Separate what is different (bornIn, birthplace)
  • Big boost for Precision
  • Recall is crowdsourced - Help us! :)
Creating Knowledge out of Interlinked Data

Mapping en:Infobox album

This is the mapping for the Wikipedia template Infobox album. Find usages of this Wikipedia template [Infobox album](https://www.wikidata.org/wiki/Q171876). Test this mapping [here](https://lod2.eu/2014/sesame/infobox-album) with some example Wikipedia pages. Check which properties are not mapped yet [here](https://lod2.eu/2014/sesame/infobox-album).

Read more about mapping Wikipedia templates.

| Template Mapping (help) | | |
|-------------------------|------------------|
| map to class | Album |

## Mappings

| Property Mapping (help) | | |
|-------------------------|------------------|
| template property | Name |
| ontology property | foaf:name |

| Property Mapping (help) | | |
|-------------------------|------------------|
| template property | Last album |
| ontology property | previousWork |

| Property Mapping (help) | | |
|-------------------------|------------------|
| template property | Released |
| ontology property | releaseDate |

| Property Mapping (help) | | |
|-------------------------|------------------|
| template property | Length |
| ontology property | runtime |
| unit | minute |

| Property Mapping (help) | | |
|-------------------------|------------------|
| template property | Director |
| ontology property | director |

| Property Mapping (help) | | |
|-------------------------|------------------|
| template property | Producer |
| ontology property | producer |

| Property Mapping (help) | | |
|-------------------------|------------------|
| template property | Reviews |
### Mapping: Infobox book

<table>
<thead>
<tr>
<th>Template Mapping</th>
<th>map to class</th>
<th>Book</th>
</tr>
</thead>
</table>

### Mappings

#### Property Mapping

<table>
<thead>
<tr>
<th>Template property</th>
<th>Illustrator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ontology property</td>
<td>Illustrator</td>
</tr>
</tbody>
</table>

#### Property Mapping

- **Name**
  - coverArtist
  - dcc
  - illustrator
  - isbn
  - lcc
  - mediaType
  - oclc
  - pages
  - subject
  - author

- **Mapping el: Βιβλίο**
  - Template Mapping | map to class | Book
  - Template property | Εικονογράφηση
  - Ontology property | Συγγραφέας

---

```json
{{Infobox book
    | name          |
    | title_orig    |
    | translator    |
    | image         |
    | image_caption |
    | author        |
    | illustrator   |
    | cover_artist  |
    | country       |
    | language      |
    | series        |
    | subject       |
    | genre         |
    | publisher     |
}}
```

---

```json
{{Ελληνικά
    | πρωτότυπο_όνομα_βιβλίου |
    | εικόνα                 |
    | λεζάντα                |
    | συγγραφέας             |
    | ετώσως                |
    | εκδότης                |
    | πρώτη_εκδοση            |
    | ISBN                    |
    | εικονογράφηση           |
    | επιμέλεια_εξώφυλλου    |
    | προηγούμενο_βιβλίο_σειράς |
    | επόμενο_βιβλίο_σειράς |
    | ημερομηνία_εκδοσης |
    | τόπος_μέσου |
    | σελίδες |
}}
```
Creating Knowledge out of Interlinked Data

DBpedia I18n - Mapping Activity

(a) Ontology edit activity

(b) Mapping edit activity for top 10 most active languages
Creating Knowledge out of Interlinked Data

DBpedia I18n – Mapping Statistics (2013.02)

(a) Mapped templates

(b) Mapped templates (percentage)

(c) Mapped properties

(d) Mapped properties (percentage)
Creating Knowledge out of Interlinked Data

DBpedia I18n – Mapping Statistics (v3.8)

Number of instances per class within 10 localized DBpedia versions.

<table>
<thead>
<tr>
<th>Class</th>
<th>en</th>
<th>it</th>
<th>pl</th>
<th>es</th>
<th>pt</th>
<th>fr</th>
<th>de</th>
<th>ru</th>
<th>ca</th>
<th>hu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person</td>
<td>763,643</td>
<td>145,060</td>
<td>70,708</td>
<td>65,337</td>
<td>43,057</td>
<td>62,942</td>
<td>33,122</td>
<td>18,620</td>
<td>7,107</td>
<td>15,529</td>
</tr>
<tr>
<td>Athlete</td>
<td>185,126</td>
<td>47,187</td>
<td>30,332</td>
<td>19,482</td>
<td>14,130</td>
<td>21,646</td>
<td>31,237</td>
<td>0</td>
<td>721</td>
<td>4,527</td>
</tr>
<tr>
<td>Artist</td>
<td>61,073</td>
<td>12,511</td>
<td>16,120</td>
<td>25,992</td>
<td>10,571</td>
<td>13,465</td>
<td>0</td>
<td>0</td>
<td>2,004</td>
<td>3,821</td>
</tr>
<tr>
<td>Politician</td>
<td>23,096</td>
<td>0</td>
<td>8,943</td>
<td>5,513</td>
<td>3,342</td>
<td>0</td>
<td>0</td>
<td>12,004</td>
<td>1,376</td>
<td>760</td>
</tr>
<tr>
<td>Place</td>
<td>572,728</td>
<td>14,1101</td>
<td>182,727</td>
<td>132,961</td>
<td>116,660</td>
<td>80,602</td>
<td>131,766</td>
<td>67,932</td>
<td>73,078</td>
<td>18,324</td>
</tr>
<tr>
<td>Popul.Place</td>
<td>387,166</td>
<td>138,077</td>
<td>167,034</td>
<td>121,204</td>
<td>109,418</td>
<td>72,252</td>
<td>79,410</td>
<td>63,826</td>
<td>72,743</td>
<td>15,535</td>
</tr>
<tr>
<td>Building</td>
<td>60,514</td>
<td>1,270</td>
<td>2,946</td>
<td>3,570</td>
<td>803</td>
<td>921</td>
<td>83</td>
<td>43</td>
<td>0</td>
<td>527</td>
</tr>
<tr>
<td>River</td>
<td>24,267</td>
<td>0</td>
<td>1,383</td>
<td>2</td>
<td>4,149</td>
<td>3,333</td>
<td>6,707</td>
<td>3,924</td>
<td>0</td>
<td>565</td>
</tr>
<tr>
<td>Organisation</td>
<td>192,832</td>
<td>4,142</td>
<td>12,193</td>
<td>11,710</td>
<td>10,949</td>
<td>17,513</td>
<td>16,973</td>
<td>1,598</td>
<td>1,399</td>
<td>3,993</td>
</tr>
<tr>
<td>Company</td>
<td>44,516</td>
<td>4,142</td>
<td>2,566</td>
<td>975</td>
<td>1,903</td>
<td>5,832</td>
<td>7,200</td>
<td>0</td>
<td>440</td>
<td>618</td>
</tr>
<tr>
<td>Educ.Inst.</td>
<td>42,270</td>
<td>0</td>
<td>599</td>
<td>1,207</td>
<td>270</td>
<td>1,636</td>
<td>2,171</td>
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<td>115</td>
</tr>
<tr>
<td>Band</td>
<td>27,061</td>
<td>0</td>
<td>2,993</td>
<td>0</td>
<td>4,476</td>
<td>3,868</td>
<td>5,368</td>
<td>0</td>
<td>263</td>
<td>802</td>
</tr>
<tr>
<td>Work</td>
<td>333,269</td>
<td>51,918</td>
<td>32,386</td>
<td>36,484</td>
<td>33,869</td>
<td>39,195</td>
<td>18,195</td>
<td>34,363</td>
<td>5,240</td>
<td>9,777</td>
</tr>
<tr>
<td>Music.Work</td>
<td>159,070</td>
<td>23,652</td>
<td>14,987</td>
<td>15,911</td>
<td>17,053</td>
<td>16,206</td>
<td>0</td>
<td>6,588</td>
<td>697</td>
<td>4,704</td>
</tr>
<tr>
<td>Film</td>
<td>71,715</td>
<td>17,210</td>
<td>9,467</td>
<td>9,396</td>
<td>8,896</td>
<td>9,741</td>
<td>15,038</td>
<td>12,045</td>
<td>3,859</td>
<td>2,320</td>
</tr>
<tr>
<td>Software</td>
<td>27,947</td>
<td>5,682</td>
<td>3,050</td>
<td>4,833</td>
<td>3,419</td>
<td>5,733</td>
<td>2,368</td>
<td>0</td>
<td>606</td>
<td>857</td>
</tr>
</tbody>
</table>
Thank you for your attention!

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