

### Outline

W3C Internationalization Activity

Bidirectional text

Ruby

Translate flag

### About the Consortium

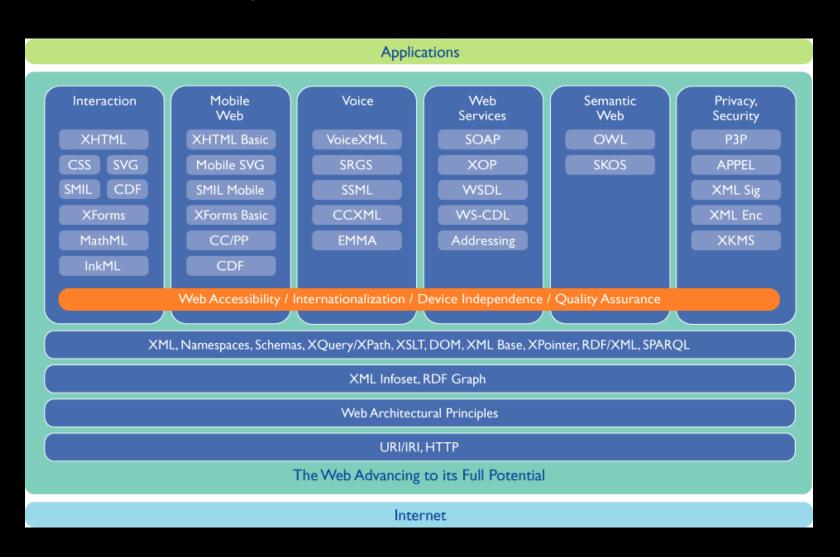


1994: World Wide Web Consortium created and still led by: Sir Tim Berners-Lee, inventor of the WWW.

Mission:
Lead the
technical evolution of the Web
and ensure its
interoperability



### W3C technology stack



### Internationalization (i18n) Core Working Group

جعل شبكة الويب العالميّة عالميّة حقًّا! 

वर्ल्ड वाईड वेबलाई यथार्थमै वश्विव्यापी बनाउने የዓለም አቀፉን ድር በእውነት አለም አቀፍ ማድረግ!

Κάνοντας τον Παγκόσμιο Ιστό πραγματικά Παγκόσι • Liaise with other standards 缔造真正全球通行的万维网

ליצור מהרשת רשת כלל עולמית באמת!

meikin ðə wa:ld waid web 'tru:li 'wa:ld'waid ワールド・ワイド・ウェッブを世界中に広げま • Help users of Web technology ធ្វើឲ្យវើលវ៉ាយវ៉ែបមានទូទាំងពិភពលោកពិប្រាកដមែន 전세계의 월드 와이드 웹으로 만들기!

वह्मामीर लूरमावर्गिकावरी रू.मावयर प्रदा वह्मामीर लूरमा

- Help W3C Working Groups understand issues and build in requirements relating to worldwide support for Web technologies
- organizations to develop support for the international Web (Unicode, IETF, etc)
- understand what's available to them and how to use it by developing best practices and other resources

### MultilingualWeb-LT Working Group

جعل شبكة الويب العالميّة عالميّة حقًّا! عسلسي شبكة الويب العالميّة عالميّة حقًّا! عسلسي السيالية عالميّة حقًّا! على المناسية المناسية المناسية المناسية المناسبة الم

Κάνοντας τον Παγκόσμιο Ιστό πραγματικά Παγκόσμ ਵਰਡ ਵਾਈਡ ਵੈਬ ਨੂੰ ਵਾਕਈ ਵਿਸ਼ਵ-ਵਿਆਪੀ ਬਨਾਉਣਾ !

缔造真正全球通行的万维网



- Define meta-data for web content (mainly HTML5) and "deep Web" content, for example a CMS or XML files from which HTML pages are generated, that facilitates its interaction with multilingual technologies and localization processes.
- Demonstrate interoperable implementations.

### **Internationalization Interest Group**

جعل شبكة الويب العالميّة عالميّة حقًّا! 

वर्ल्ड वाईड वेबलाई यथार्थमै वश्वव्यापी बन የዓለም አቀፉን ድር በእውነት አለም አቀፍ ማድረ

ਵਰਡ ਵਾਈਡ ਵੈਬ ਨੂੰ ਵਾਕਈ ਵਿਸ਼ਵ-ਵਿਆਪੀ ਬਨਾਉਣਾ !

#### 缔造真正全球通行的万维网

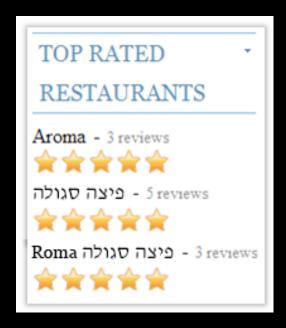
ליצור מהרשת רשת כלל עולמית באמת! meikin ðə waild waid web 'truili 'waild'wa ធ្វើឲ្យវើលវ៉ាយវ៉េបមានទូទាំងពិភពលោកពិប្រាកៈ 전세계의 월드 와이드 웹으로 만들기!

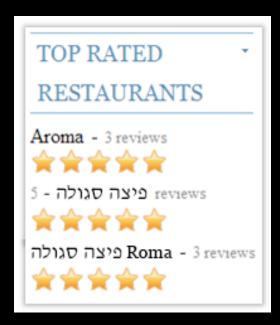
वह्मामीर लूरमावर्गिकावर्गः र्रामावर्गः वह्मामीर

- Յամաշխարհային ցանցն իրոբ համաշխալ www-international@w3.org
  - public-i18n-bidi@w3.org
  - public-i l 8n-cjk@w3.org
  - public-i18n-indic@w3.org
- ワールド・ウェッブを世界中に立・public-il8n-its@w3.org
- Gwneud y we fyd-eang yn wirioneddol fyd-eal public-iri@w3.org

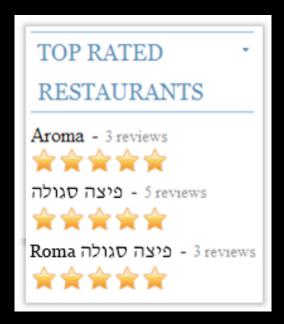
## Bidi

### Bidi Embedded text





## Bidi Embedded text



```
<bdi>Aroma</bdi> - 3 reviews<bdi>PURPLE PIZZA</bdi> - 5 reviews
```

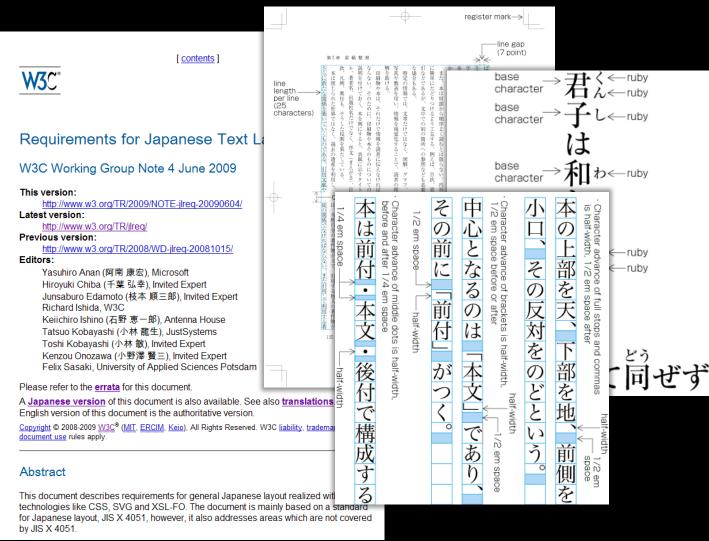
```
<span class="name" dir="auto">Aroma</span> - 3 reviews<span class="name" dir="auto">PURPLE PIZZA</span> - 5 reviews
```

# Ruby

Ruby What is it?

につぼんでんき 日本電気 NEC

### Requirements for Japanese Layout



## Ruby HTML5 innovations

XHTML <ruby> <rb> 日本</rb> <rt>にっぽん</rt> </ruby> <ruby> <rt>でん</rt> </ruby> <ruby> <rt> き</rt> </ruby>

HTML5 <ruby> <rt>にっぽん</rt> <rt>でん</rt> <rt> き</rt> </ruby>

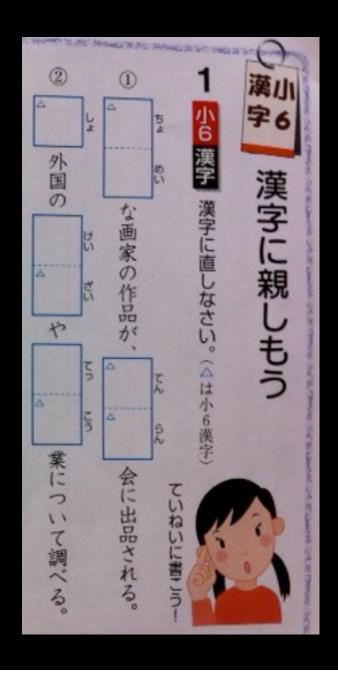
### Use case Ruby base styling

```
<ruby>
B
<rt>a</rt>
B
<rt>a</rt>
<rt>a</rt>
<ruby>
```

# 和文との混 に 用 いる欧字

### Use case Ruby base styling

```
<ruby>
<span>B <span>
<rt>a </rt>
B
<rt>a </rt>
<rt>a </rt>
<ruby>
```



## Use case Ruby base styling

- Use of span works.
- If used a lot, less obvious that this is better than rb.
- But allows styling within a base unit of multiple characters.
- Only works where span is present, so mass conversion for accessibility is not possible – but then neither does rb help if optional.
- Possible alternative, implicit rb element.

```
<ruby>
B
<rp>(</rp>
<rt>a</rt>
<rp>)</rp>
B
<rp>(</rp>
<rt>a</rt>
<rp>(</rp>
<rt>a</rt>
<rp>><rt>a</rt>
<rp><<rt>a</rt>
<rp><<rt>a</rt>
<rp><<ruby>
```

は

初

```
<ruby>
B
<rp>(</rp>
<rt>a</rt>
<rp>)</rp>
B
<rp>(</rp>
<rt>a</rt>
<rp>(</rp>
<rt>a</rt>
<rp>><rt>a</rt>
<rp><<rt>a</rt>
<rp><<rt>a</rt>
<rp><<ruby>
```

は

初

```
<rb>B</rb>
<rb>B</rb>
<rb>B</rb>
<rp>(</rp>
<rt>a</rt>
<rt>a</rt>
<rt>-a</rt>
<rt>-a</rt>
<rt>-a</rt>
<rp>)</rp>
<ruby>
```

は

初

- Should we go to a column-based, rather than row-based approach? This would involve introducing rb.
- Is there some other way of producing a fallback?
- Can we reach a situation quickly where fallbacks are not needed?

# Translate flag

## Translate flag Use cases

- some parts of texts should not be translated
- nowadays translation is usually automated thus there is a need for machine readable information about translatability

Click the Resume button on the Status Display or the CONTINUE button on the printer panel.

CONTINUE is a label on a hardware button and should not be translated as labels on hardware buttons are not going to be localized.

## Translate flag HTML5 solution

 translate="no" attribute can be added to any HTML element to indicate that content of element should not be translated

Click the Resume button on the Status Display or the CONTINUE button on the printer panel.



Click the Resume button on the Status Display
or the <span translate="no">CONTINUE</span> button
on the printer panel.

## Translate flag Additional information

- translate attribute was recently added to HTML5 by effort started at the MLW Pisa workshop in 2011
- it is available in many other XML based formats thanks to ITS (Internationalization Tag Set)
- translate attribute can have yes and no values which can be overridden
- already supported by on-line translation services from Microsoft and Google
- already supported by content formats like DITA or DocBook

## Getting involved...

### The Web needs your help

this is your Web – not the W3C's

the Web is about people, not technology

we need You to make the Web worldwide

get involved



Thank you http://www.w3.org/International/