## Towards the Promised Land: Globalization Developments in Web Standards



Richard Ishida and Addison Phillips W3C Internationalization Activity Vastly improved or room for improvement?

• Why "the promised land"?

The promise of a multilingual Web is being realized and new W3C specifications help demonstrate that.

... but we've been waiting a long time.

• Why only "towards"

Many features we'll talk about today are not implemented yet or are partially implemented. Many features <u>are</u> implemented.

- What issues are more or less solved on the Web?
- What are we doing to address the remaining problems?
- How can you influence the outcomes?

## What do we mean by "HTML5"



# Characters

Language Date & time Bidirectional text CSS3: Global ready presentation JavaScript Widgets and Web apps Best practices



## Unicode

#### جعل شبكة الويب العالمية عالمية عالمية حقًّا! وب ماني رارد شي ماني رارم! وب ماني رارد شي ماني رارم! The Path W3C follows عالمگيرويب كو تقيقي طور پر عالمگير بنايا دي عالمگيرويب كو تقيقي طور پر عالمگير بنايا در له ماني باليان ماليك ماليان ماليان ماليك ماليان ماليان ماليك ماليان ماليك ماليان ماليك ماليان ماليك ماليان ماليان ماليان ماليك ماليان مالي مماليا ماليان ماليان ماليا ماليان ماليالي مالي مالياليا ما

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缔造真正全球通行的万维网

ליצור מהרשת רשת כלל עולמית באמת!

meikin ðə w3:ld waid web 'tru:li 'w3:ld'waid

ワールド・ワイド・ウェッブを世界中に広げましょう ធ្វើឲ្យវើលវ៉ាយវ៉េបមានទូទាំងពិភពលោកពិប្រាកដមែន!

ធ្វេទ្យផលោយពេចទេទូទាំងសារពេលពេលប្រាជាមេ

전세계의 월드 와이드 웹으로 만들기!

Gwneud y we fyd-eang yn wirioneddol fyd-eang! การทำให้ World Wide Web แพร่หลายไปทั่วโลกอย่างแท้จริง ฉยัสเลูโราพัรสาฉริณาฉริ รัสเวลรารรา ฉยัสเลูโราพัรสาญเฏิราสู้รางเรารัรา **Tim Berners-Lee** 

## Ē

## جعل شبكة الويب العالميّة عالميّة حقًّا! وب *حاني رابدد شي حاني سازيم !* عالمگيرويب كو تقيقي طور پر عالمگير بنايا

"Дүниежүзілік торды" нағыз дүниежүзілік етеміз! वर्ल्ड वाईड वेबलाई यथार्थमै विश्वव्यापी बनाउने

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

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ˈmeɪkɪŋ ðə wɜːld waɪd wɛb ˈtruːlɪ ˈwɜːldˈwaɪd

ワールド・ワイド・ウェッブを世界中に広げましょう ធ្វើឲ្យវើលវ៉ាយវ៉េបមានទូទាំងពិភពលោកពិប្រាកដមែន! 전세계의 월드 와이드 웹으로 만들기!

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# Other ASCII UTF-8

### Unicode on the Web

## **Encoding declarations**

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"

"http://www.w3.org/TR/html4/strict.dtd">

<html lang='en'>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

</head>
```

```
<DOCTYPE html>
```

<html>

<head>

```
<meta charset=utf-8>
```

</head>

•••

- Strong encouragement to use UTF-8.
- New meta charset declaration. Either approach will work, but check you don't have both.
- Must be completely within the first 1024 bytes of the file.

## Polyglot documents

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html>
<html lang="en" xml:lang="en" xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta charset="utf-8" />
</head>
```

```
•••
```

- Strong encouragement to use UTF-8.
- New meta charset declaration. Either approach will work, but check you don't have both.
- Must be completely within the first 1024 bytes of the file.



 Polyglot documents use UTF-8 only, but no XML declaration.

# UTF-16 documents



# ■ charset attributes

k rel="stylesheet" charget="Windows-1251" href="mystyles.css" type="text/css">

See our <a href="/mysite/mydoc.html" chippet="ISO-8859-1">list of publications</a>.

- Not well supported by browsers.
- Hard to ensure it continues to be correct.
- There are better ways to do it.



• Ok for script element.

## Unicode versions and ids

<h2><a id="რჩეული"> ფოტოსურათი</a></h

<a href="/wiki/ჭიამა class="mw-redirect">ჭია bოჭოების ოჯახს ეკუс მომრგვალო ან ოვალუ ფონზე შავი ლაქები ავ

## W3C\*

#### Extensible Markup Language (XML) 1.0 (Fifth Edition)

#### W3C Recommendation 26 November 2008

#### This version:

http://www.w3.org/TR/2008/REC-xml-20081126/

#### Latest version:

http://www.w3.org/TR/xml/ Previous versions:

http://www.w3.org/TR/2008/PER-xml-20080205/ http://www.w3.org/TR/2006/REC-xml-20060816/

#### Editors:

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Please refer to the errate for this document, which may include some normative corrections.

The previous errata for this document, are also available.

#### See also translations.

This document is also available in these non-normative formats: XML and XHTML with color-coded revision indicators.

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#### Abstract

The Extensible Markup Language (XML) is a subset of SGML that is completely described in this document. Its goal is to enable generic SGML to be served, received, and processed on the Web in the way that is now possible with HTML. XML has been designed for ease of implementation and for interoperability with both SGML and HTML.

#### Status of this Document

This section describes the status of this document at the time of its publication. Other documents may supersede this document. A list of current W3C publications and the latest revision of this technical report can be found in the  $\underline{W3C}$  technical reports index at http://www.w3.org/TR/

This document specifies a syntax created by subsetting an existing, widely used international text processing standard (Standard Generalized Markup Language, ISO 8879:1986(E) as amended and corrected) for use on the World Wide

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#### Oldida OF UNA DOCUMENT



## Normalization

# NFDllzelilNFCÍzelítőül

Ha a világ beszélni akarna, Unicode-ul szólalna meg. Regisztráljon már most a Tizedik Nemzetközi Unicode Konferenciára, melyet 1997. március 10-12-én rendeznek Meinz-ban, Németországban. Ezen a konferencián az iparág több neves szakértője is résztvesz. Ízelítőül a témákból: a világháló és a Unicode nemzetközisítése és lokalizálása, a Unicode alkalmazása működő rendszerekben és alkalmazásokban, szövegelrendezésnél, és többnyelvű számítógépeken.

## Character Model for the World Wide Web



## Web resource identifiers



## Web resource identifiers



وزارة-الأتصالات مصر//http://



## Web resource identifiers



## Characters



Date & time Bidirectional text CSS3: Global ready presentation JavaScript <u>Widgets and Web apps</u>

## Language declarations

<DOCTYPE html> <html lang=it> <head> <meta http-equiv=Content-Language content="en, it"> </head>

- Attributes indicate the language of text inside that element for text processors. Only one language value allowed.
- Meta elements indicate the language of the expected readership. Multiple languages are ok.
- Attributes override other declarations.

## Language declarations

```
<DOCTYPE html>
<html lang=it>
<head>
<meta http-equiv=Cop int-Language content="en, it">
</head>
```

- Attributes indicate the language of text inside that element for text processors. Only one language value allowed.
- Meta elements indicate the language of the expected readership. Multiple languages are ok.
- Attributes override other declarations.



The meta element with Content-Language is now non-conforming.

## **BCP 47 improvements**

- Basis for Java7, JavaScript, PHP, .Net and other locales
- -u- extension
  - Unicode Locales (RFC 6067)
- :lang pseudo-attribute
  - CSS selection
- -t- extension
  - Transliterations and transformations (Internet-Draft in Last Call)

Characters

Language

# Date & time

Bidirectional text CSS3: Global ready presentation JavaScript Widgets and Web apps Best practices

## ■ New to HTML5



## Locale sensitivity

- Still an issue for the Web
  - Date pickers not locale or language sensitive
  - No markup-based control over format
  - Time zone support is spotty

Characters

Language

Date & time

# **Bidirectional text**

CSS3: Global ready presentation JavaScript Widgets and Web apps Best practices

## Bidirectional text support

# بي التدويل، نشاط التدويل، W3C م

<description dir="rtl">W3C ، نشاط التدويل، description dir="rtl">w3C /description

## Bidi isolation for inserted text





## <span dir=rtl>לילית</span> - 5 reviews

## Bidi isolation for inserted text

- CSS3 added the "isolate" value to the unicodebidi property.
- HTML5 adds a new <bdi> element, with unicodebidi:isolate in the default stylesheet.
- (The <output> element behaves the same way.)



## <bdi>di>לילית</bdi> - 5 reviews

## Determining direction at run time



## Determining direction at run time



## Determining direction at run time

- HTML5 adds new "auto" value for the dir attribute.
- dir=auto sets the unicode-bidi CSS property to to "isolate".
- CSS3 adds a "plaintext" value to the unicode-bidi property to allow perparagraph auto-direction, primarily for use on <textarea> and elements.
- It estimates a direction according to the UBA method.



Your search - <span class=booktitle dir=auto>יוות דודיק תורהצה<CSS</span> - did not match any documents.

## Other bidi changes

- Reporting the chosen direction of <input> and <textarea> in form submissions
- <br> should should serve as a bidi separator
- Block elements as bidi separators
- <title> should support the dir attribute
- <option> should support the dir attribute and be displayed accordingly both in the dropdown and after being chosen

• ...

Characters Language Date & time Bidirectional text

# CSS3: Global ready presentation

JavaScript Widgets and Web apps Best practices

#### W3C

#### CSS3 module: line

#### Editor's Draft 23 February 2008

#### This version:

[no permanent URL] Latest version:

http://www.w3.org/TR/css3-linebox

#### Previous version:

http://www.w3.org/TR/2002/WD-css3-linebox-20020515/ Editors:

Michel Suignard (Microsoft) (until February 2003) Eric A. Meyer (until February 2003) L. David Baron (Mozilla Corporation) (from March 2003)

#### Authors:

Original CSS2 authors, and Bert Bos (W3C) Michel Suignard (Microsoft) Steve Zilles (Adobe) L. David Baron (Mozilla Corporation)

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#### Abstract

The CSS formatting model provides for a flow of elements and text inside of a container to be wrapped into lines. The formatting of elements and text within a line, its positioning in the inline progression direction, and the breaking of lines are described in [CSS3TEXT]. This module describes the positioning in the block progression direction both of elements and text within lines and of the lines themselves. This positioning is often relative to a baseline. It also describes special features for formatting of first lines and drop caps. It extends on the model in

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The (archived) public mailing list www-style@w3.org (see instructions) is preferred for discussion of this specification. When sending e-mail, please put the text "css3-linebox" in the subject, preferably like this: "[css3-

> Implementers of user agents need to be prodded by the public to support the developing marketplace !

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## Writing Mode

CSS3 has a new module for "writing mode" that supports vertical text.



## Vertical and Bidi Test File

Used for testing WebKit nightlies and other stuff.

http://www.w3.org/TR/css3-writing-modes/







### **W3**C

#### CSS Text Layout Modu

#### Editor's Draft 5 May 2010

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This version: http://dev.wd.org/csswg/css3-text-la Latest version: http://www.w3.org/Tr2css3-text-lay Previous version: http://www.w3.org/tr2003/CR-css3 Editors: Elika J. Etemad Shinyu Murakami (Antenna House) Previous Editors: Paul Nelson (Microsoft) Michel Sugnard (Microsoft)

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#### Abstract

This module specifies the text layout mo vertical text.

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The (archived) public mailing list was specification. When sending e-mail, plea text-layout, ...summary of comment...\* This document was produced by a maintains a <u>public list of any patent disci-</u> includes instructions for disclosing a pat believes contains <u>Essential Claim(s)</u> mu <u>Policy</u>. 12011201 £ वि JALLIO 27 10506 Z व 4 3 Optor 2 う Ł ま Ъ 1 بمسروبر Ł d đ ( Juni £ 3 Olunor A đ g ወ 9 9 đ Ĵ 1 f đ ф option g d d g G oprator, 1 d) 111151 JULIOL G 7 ŋ d ₫, 7 đ 3 9 A くしくこ I まう 2 oto ろ 9 3 3 3





## W3C" W3C" CSS Text Laye Editor's Draft 5 Ma This version: http://dec.w3.org/cssa

Latest version: http://www.w3.org/TR Previous version: http://www.w3.org/h720 Editors: Elika J. Etemad Shinyu Murakami (Ante Previous Editors: Paul Nesson (Microsoft) Michel Sulgnard (Microsoft) Michel Sulgnard (Microsoft)

#### Abstract

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## **Ruby** annotation

W3C\*

(See <u>Ackr</u> <u>Copyright</u> ©1998-24 <u>licensing</u> rules appl

#### Abstract

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Marcin S

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document and

#### W3C\*

#### HTML5

A vocabulary and associated APIs for HTML and XHTML

#### Editor's Draft 4 May 2010

Latest Published Version: http://www.w3.org/TR/html5/ Latest Editor's Draft:

#### http://dev.w3.org/html5/spec/Overview.html Previous Versions: http://www.w3.org/TR/2009/WD-html5-20090825/

http://www.w3.org/TR/2009/WD-html5-20090423/ http://www.w3.org/TR/2009/WD-html5-20090212/ http://www.w3.org/TR/2008/WD-html5-20080610/ http://www.w3.org/TR/2008/WD-html5-20080122/ Editors:

lan Hickson, Google, Inc.

This specification is available in the following formats: <u>single page HTML</u>, multipage HTML, This is revision SRevision: 1.4073 S. <u>Concerts</u> 7070 <u>BUT 64</u> <u>AUT Concerts</u> <u>AUR spins</u> Reserved WIC <u>(abult)</u>; <u>takement</u> and <u>document</u> <u>are rules apply</u>.

#### Abstract

This specification defines the 5th major revision of the core language of the World Wide Web: the Hypertext Markup Language (HTML). In this version, new features are introduced to help Web application authors, ne elements are introduced based on research into prevailing authoring practices, and special attention has be given to defining clear conformance criteria for user agents in an effort to improve interoperability.

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If you wish to make comments regarding this document, please send them to public-html-comments@w3.org





## **Ruby** annotation

117~° ノき <ruby<rb>凝</rb><rt>ぎょう</rt></ruby> 門む <ruby><rb>視</rb><rt>し</rt></ruby> HTML5 vocabulary and associated APIs for HTML and XHTMI <ruby>凝<rt>ぎょう</rt>視<rt>し</rt></ruby> が http://dev.w3.org/html5/spec/Overview.html Previous Versions: http://www.w3.org/TR/2009/WD-html5-20090825/ http://www.w3.org/TR/2009/WD-html5-20090423/ http://www.w3.org/TR/2009/WD-html5-20090212 http://www.w3.org/TR/2008/WD-html5-20080610/ w.w3.org/TR/2008/WD-html5-2008012; <ruby> <rbc><rb>凝</rb><rb>視</rb></rb> <rtc><rt>ぎょう</rt><rt>し</rt></rt> </ruby> Status of This document

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If you wish to make comments regarding this document, please send them to public-html-comments@w3.org

## **Requirements for Japanese Layout**



for Japanese lavout, JIS X 4051, however, it also addresses areas which are not covered by JIS X 4051.





## Web fonts

```
@font-face {
  font-family: 'battambang-woff';
  font-style: normal;
  font-weight: normal;
  src: url(fonts/khmerosbbang.woff);
 }
```

```
:lang(kh) {
  font-family: 'battambang-woff';
  font-size: 100%;
  }
```



### Issues

- Rendering detail for complex fonts.
- Subsetting capability may be needed.
- Can only be used for fonts with an appropriate licence.

## OpenType feature support by language



Београд, Април 1944 Измакоше ти кућу па собу па су ти узели свеску из руке неки бомбардери... Беоїрад, Айрил 1944 Измакоше ши кућу иа собу иа су ши узели свеску из руке неки бомбардери...





Zusätzlich erleichtert PLS die Eingrenzung von Anwendungen, indem es Aussprachebelang e von anderen Teilen der Anwendung abtrennt.

Zusätzlich erleichtert PLS die Eingrenzung von Anwendungen, indem es Aussprachebelange von anderen Teilen der Anwendung abtrennt.

## \* { hyphens: auto; }

## Hyphenation

- Hyphenation support is starting to become available.
  - Still works best with embedded (server-side) hinting
  - Language support??

#### Still in flux... development needed

#### ie end of the line before a hypricitation break

#### Example VI

In Latin scripts, the hyphen character (U+2010) is often used to indiarticle { hyphenate-character: "\2010" }

Both hyphens triggered by automatic hyphenation and hyphens trig Issue: Can we point to CLDR for hyphenation character data?

#### 5.3. Hyphenation Size Limit: the 'hyphenate-limit-zone' pr

#### Is 'hyphenate-limit-zone' a good name? Comments/suggest

This property specifies the maximum amount of unfilled space (a up into the current line. The q element

Some Norwegian text <q>More Norwegian<q> still more Norwegian</q></q>.

Some Norwegian text «More norwegian "more norwegian"».

:lang(en) > \* { quotes: ""' "" """ """; } :lang(no) > \* { quotes: "«" "»" ""' } The q element

Some Norwegian text <q>More Norwegian<q> still more Norwegian</q></q>.

Some English text "Some norwegian «more norwegian»".

:lang(en) > \* { quotes: "" "" "" ""; } :lang(no) > \* { quotes: "«" "»" "" } Characters Language Date & time Bidirectional text CSS3: Global ready presentation

# JavaScript

Widgets and Web apps Best practices



## Javascript gets a 'locale

## JS-II8N extension work

- Locales based on BCP 47 language tags
- Date, number formatting
- Collation
- and more...

http://wiki.ecmascript.org/doku.php?id=strawman:i18n\_api

## Examples (Kindle Touch browser)

#### NumberFormat

var format = new NumberFormat(NumberFormat.DECIMAL, null, new Locale("de-CH")) document.write("" + format.format(-123456.789));

- JavaScript I18N Demo

http://inter-locale.co

## JavaScript Internationalization

A page to demonstrate the nacent internationalization capabilities DateFormat This page is optimized for the Kindle Touch browser. No, not the \$

#### Locale

```
var loc = new Locale("fr-FR");
var display = loc.displayName(loc);
var displayEn = loc.displayName(new Locale("en-
document.write("" + display + " " + displayE
```

#### français (France) French (France)

- German (Germany) -123456,8
- French (France) -123456.8
- English (United States) -123456.8
- Hindi (India) १२३४५६.८
- Japanese -123456.8
- Thai (Thailand) -123456.8

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- fr-FR French (France) samedi 1 octobre 2011 20:26:32 UTC+00:00
- en-US English (United States) Saturday, October 1, 2011 8:26:32 PM GMT+00:00
- hi-IN Hindi (India) शनिवार, १ अक्तूबर २०११ ८:२६:३२ अपराह GMT+००:००
- ja Japanese 2011年10月1日土曜日20時26分33秒 GMT+00:00
- th-TH Thai (Thailand) วันเสาร์ที่1 ตุลาคม พ.ศ. 2554, 20 นาฬิกา 26 นาที่ 33 วินาที GMT+00:00

#### Collator

Characters Language Date & time Bidirectional text CSS3: Global ready presentation JavaScript

# Widgets and Web apps

Best practices



- Various technologies that make Web-based applications possible are under development. Some samples:
  - IDL
  - Web sockets, Web storage, Web workers
  - XHR
  - Widgets
  - Selectors
  - File APIs
  - DOM



## The Widget Spec

• Widget containers deliver "apps" cross-platform based on HTML5

- Extensive localization model
- Ability to set base locale

<widget xmlns=<u>http://www.w3.org/ns/widgets</u>
defaultlocale="en">

```
<name short="Weather"> Weather! a totally awesome
application! </name>
```

</widget>

# Webapps



## A standard HTML5/CSS3 Widget using P&C

## <sup>2</sup> Google <sup>3</sup> Google <sup>3</sup> Google <sup>3</sup> Google <sup>3</sup> Google ← <sup>3</sup> C loud Reader <sup>4</sup> Https://read.amazon.com <sup>1</sup> EN @ I <sup>4</sup> S <sup>4</sup> Max <sup>1</sup> C <sup>4</sup> Max <sup>1</sup> Max <sup>1</sup> Library <sup>1</sup> Ω <sup>1</sup> Ω <sup>1</sup> Ω

#### LETTERS TO A YOUNG CHEF

As no kitchen staff could shine without the invaluable efforts of the front of the house, I thank Michael Lawrence, Marcus Draxler and Jean Luc Le Dû at DANIEL; Charles Pouchot, Dante Camara and Olivier Flosse at Café Boulud in New York; Philippe Langlois, Jonathon Dwight and Hanspeter Waechter at Café Boulud in Palm Beach; Jean Pierre François, Jerome Delpuch and Ryan Buttner at DB Bistro Moderne.

To my business partners, Joel Smilow and Lili Lyn-ton, as well as my executive team of Brett Traussi, Guy Heksch, Georgette Farkas and Marcel Doron, for insisting we each give our very best everyday.

To all the Young Chefs who have worked in my kitchens, who have given their dedication, their energy, their willingness to learn. To the sous chefs, cooks, bakers, externs, stagiaires, and culinary students who have worked, 5 days or 5 years, as part of my *brigade*—I am thankful for your loyalty and commitment. It is so very rewarding to observe those of you who have passed through my doors and gone on to create and sustain your own extraordinary successes—in the US and around the world. There is no greater joy as a chef or mentor than knowing I have had some small influence on your careers. You make me proud and remind me why I am here in the first place.

> tire restaurant staff—no chef operates in a vacuum. It takes om every member of the front and back of the house. You are at which keeps my wheels turning and my dream possible. Every

phone answered, every dish washed and every delivery inspected is vital.

To American cooking schools, who have transformed the landscape of culinary education over the last few decades. Their efforts have increased the respect and understanding of our profession in this country.

Of course to my mentors, Gerard Nandron, Georges Blanc, Roger Vergé, Michel Guérard and Sirio Maccioni for giving me the tools I needed and the Characters Language Date & time Bidirectional text CSS3: Global ready presentation JavaScript Widgets and Web apps

# **Best practices**

# Capturing guidance for spec developers and implementers (and you)

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#### normalization

## working with case sensitivity

## more information about date & time

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	UA	IE	IE	Firefox	Chrome	Opera	Safari		
	version	8	7	3.6.3	4.1.249.1045	9.64	4.0.5		
	05	XP, SP3	XP, SP3	XP, SP3	XP, SP3	XP, SP3	XP, SP3		
	renderer	1.626.5756.0	1.626.5756.0	1.626.5756.0	1.626.5756.0	1.626.5756.0	1.626.5756.0		
	date	20100427	20100427	20100427	20100427	20100427	20100427		
	Alphabetic script (Georgian)	no 🖌	no 🖌	yes	no 🖌	no 🖌	no 🖌		
	Alphabetic script (Armenian)	no 🖌	no 🖌	yes	no 🖌	no 🖌	no 🖌		
	Complex scripts (Khmer)	no 🗸	no 🗸	yes	no 🗸	no 🗸	no 🗸		
	Complex scripts (Hindi)	no 🖌	no 🖌	yes	no 🖌	no 🖌	no 🖌		
	Shaping scripts (Arabic)	no 🖌	no 🖌	yes	no 🖌	no 🖌	no 🖌		
	Shaping scripts (Urdu)	no 🖌	no 🗸	yes	no 🗸	no 🗸	no 🗸		
	Mixed scripts (Thai)	no 🗸	no 🗸	yes	no 🗸	no 🗸	no 🗸		
	Mixed scripts (Tibetan)	no 🖌	no 🖌	yes	no 🗸	no 🖌	no 🖌		0
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## Internationalization resources

	USC Internationalization (I18n) Av	ctivity - Mozilla Firefox		18
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	Making the World Wide Web world wide!		I18n site search: RSS Feeds 🔝	
Articlos	Home Resources Techniques Topics News Groups About			
AI IICIES	Home page	Site links	i18n resources	
Tutorials	The W3C Internationalization (I18n) Activity works with <u>W3C</u> working groups and liaises with other organizations to make it possible to use Web technologies with different languages, scripts, and cultures. From this page you can find articles and other resources about Web internationalization, and information about the groups that make up the Activity. More Recent highlights	Getting Started     Tasks     Topics     Resource types     Reviews	<ul> <li>Authoring HTML &amp; CSS</li> <li>Authoring SVG</li> <li>Authoring XML</li> <li>Developing specifications</li> <li>Setting up a server</li> <li>Developing schemas</li> <li>Using the Web</li> </ul>	
	30 April 10 Text direction tests updated	Mail archives	Constants Barbar	
http://www.w3.or	g/International/	E Aggregated data E Translation E News by category E News archives	<ul> <li>Planet</li> <li>Specifications</li> <li>Articles etc.</li> </ul>	
	All		<ul> <li>Tests</li> </ul>	
Taata	All news		MultilingualWeb	
lests	24 May 2010	ᄰ @webi18n tweets		
	Ialk slides: W3C India Office opening           On 6th May Richard Ishida gave a talk entitled Internationalization & its           challenges at the Technology, Standards and Internationalization           Conference that was run to mark the opening of the W3C India Office in New D	elhi, India.	About the Activity Groups: Core, ITS, IG, JLTF	
Talks	The talk describes the work of the Internationalization Activity at the W3C, and Asia can contribute to that work.	Mission, Contacts Activity Statement		
	Edit	Participate!		
<b>-</b>	Text direction tests updated The HTML and CSS text direction tests in the Internationalization Activity test	30 April 2010 suite have been updated as	Join a Working Group Review a W3C specification Translate a specification or page	
IOOIS	rollows: • HTML5 and XHTML5 were added as new test formats • tests now use strict DOCTYPEs • reference graphics in the vertical text tests were improved • the order of test related to browser chrome was changed		Subscribe to the Interest Group list	
	In addition, a new results page was created for the tests about vertical text.			
Reviews	Other changes behind the scenes include gathering of all tests into a single PHI longer used). Code in the PHP file was also streamlined.	P file (generatehtml.php is no	<ul> <li>All Words</li> <li>Some Word</li> </ul>	
	[search key: results-vertical-text]		Entire phrase	
	Z Edit		Search	
	Categories: Highlight, Test, W/CWebDesign, W3CWebDserAgents	28 April 2010	Admin	
	New translation into Hindi	20 April 2010	Admin	
	Thanks to the Bhavatmaj Seth, the following getting-started article has been t	ranslated into Hindi.	Profile (rishida)     Logout (rishida)	
	वेव पर भाषा (Language on the Web) Done			
	an ec stat (Language on the web) Done			
	Thanks to the Bhavatmaj Seth, the following getting-started article has been t	ranslated into Hindi.	<ul> <li>Profile (rishida)</li> <li>Logout (rishida)</li> </ul>	

# ■ I18n resources



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# I18n resources



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http://www.wo.org/international/technique-moex-topic=htmlat

## 118n resources



## 118n resources



refers to the whole thin

subtag that represents a language, to more clearly make the distinction from 'language tag', wh

(recommended in BCP47)

	<ul> <li>Detailed report</li> </ul>		
Chaokar tool	Soverity Description		
	W3C In: Is your Web	ternational	ization Checker (Prototype only!)
	✓ Address		http://rishida.net/tools/i18nchecker/test.php
	http://rishida.net/tool	s/i18nchecker/t	Run another check
	✓ Results		
		<u>8</u> 2	<u>A</u> 8 📣 1
http://validator.w3.org/i	18n-check	er/	
Thtp://validatol.wo.org/l			XHTML 1.0 :: text/html
	Character encoding		Code
	HTTP Content-Type	No charset found.	Content-Type: text/html
	Byte order mark (BOM)	UTF8	
	xml declaration	None found.	
	meta charset element	iso-8859-1	<pre><meta content="text/html;&lt;br&gt;charset=iso-8859-1" http-equiv="Content-Type"/></pre>
I. Discover	HTML5 meta charset element	None found.	
	Language		Code
2 Check	<html lang="&lt;/td"><td>kk</td><td><pre><html dir="ltr" lang="kk" xml:lang="to" xmlns="http://www.w3.org/1999/xhtml"></html></pre></td></html>	kk	<pre><html dir="ltr" lang="kk" xml:lang="to" xmlns="http://www.w3.org/1999/xhtml"></html></pre>
E. CIICCR	<html xml:lang="&lt;/td"><td>to</td><td><html <br="" dir="ltr" lang="kk" xml:lang="to">xmlns="http://www.w3.org/1999/xhtml"&gt;</html></td></html>	to	<html <br="" dir="ltr" lang="kk" xml:lang="to">xmlns="http://www.w3.org/1999/xhtml"&gt;</html>
	HTTP Content-Language	ka, ta	Content-Language: ka, ta
	meta content-language element	en,fr,sp	<meta content="en,fr,sp" http-equiv="Content-Language"/>
	Text direction		Code
	Default direction	ltr	<html <br="" dir="ltr" lang="kk" xml:lang="to">xmlns="http://www.w3.org/1999/xhtml"&gt;</html>
	Class & id names		Code

<html lang="&lt;/th"><th>kk</th><th><html <br="" dir="ltr" lang="kk" xml:lang="to">xmlns="http://www.w3.org/1999/xhtml"&gt;</html></th></html>	kk	<html <br="" dir="ltr" lang="kk" xml:lang="to">xmlns="http://www.w3.org/1999/xhtml"&gt;</html>
<html xml:lang="&lt;/td"><td>to</td><td><html <br="" dir="ltr" lang="kk" xml:lang="to">xmlns="http://www.w3.org/1999/xhtml"&gt;</html></td></html>	to	<html <br="" dir="ltr" lang="kk" xml:lang="to">xmlns="http://www.w3.org/1999/xhtml"&gt;</html>
HTTP Content-Language	ka, ta	Content-Language: ka, ta
meta content-language element	en,fr,sp	<meta content="en,fr,sp" http-equiv="Content-Language"/> $\!$
ext direction		Code
Default direction	ltr	<html <br="" dir="ltr" lang="kk" xml:lang="to">xmlns="http://www.w3.org/1999/xhtml"&gt;</html>
Class & id names		Code
Non-ascii class or id names	8	Show list
Non-NFC class or id names	4	Show list
Request headers		
Accept-Language	en,pt-br;q=0.8	3,fr;q=0.5,ch;q=0.3
Accept-Charset	ISO-8859-1,u	tf-8;q=0.7,*;q=0.7
	·	† TO

# Getting involved...

## Getting involved

- Follow the discussions on the i18n mailing lists (eg. www-international@w3.org), and track other technologies for internationally relevant topics. Follow our RSS feeds and twitter channels (@webi18n and @multilingweb)
- Read and review specifications (http://www.w3.org/TR/trtechnology-drafts) and send comments to the i18n list or direct to the Working Group.
- Discuss local requirements for the Multilingual Web, and if you identify missing features, find ways to coordinate proposals.
- Use features needed for non-Latin script support and push implementers to include more in browsers and authoring tools.



## The Web needs your help

this is your Web – not the W3C's

we need You to make the Web worldwide

get involved



Thank you http://www.w3.org/International/talks/1101-iuc35 /