

[MS-RUBY]: Internet Explorer Ruby Annotation Standards Support Document

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Revision Summary

Date	Revision History	Revision Class	Comments
03/17/2010	0.1	New	Released new document.
03/26/2010	1.0	None	Introduced no new technical or language changes.
05/26/2010	1.2	None	Introduced no new technical or language changes.
09/08/2010	1.3	Major	Significantly changed the technical content.
10/13/2010	1.4	Minor	Clarified the meaning of the technical content.
02/10/2011	2.0	No change	Introduced no new technical or language changes.

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1 Introduction

This document describes the level of support provided by Windows® Internet Explorer® 7, Windows® Internet Explorer® 8, and Windows® Internet Explorer® 9 for the *Ruby Annotation* [W3C-Ruby], W3C Recommendation 31 May 2001. Internet Explorer displays webpages written in HTML.

The [W3C-Ruby] specification may contain guidance for authors of webpages and browser users, in addition to user agents (browser applications). This document considers only normative language from the specification that applies directly to user agents.

1.1 Glossary

MAY, SHOULD, MUST, SHOULD NOT, MUST NOT: These terms (in all caps) are used as described in [RFC2119]. All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.ietf.org/rfc/rfc2119.txt>

[W3C-Ruby] Sawicki, M., Suignard, M., Ishikawa, M., Durst, M., and Texin, T., "Ruby Annotation", W3C Recommendation 31 May 2001 (Markup errors corrected 25 June 2008), <http://www.w3.org/TR/ruby/>

1.2.2 Informative References

None.

1.3 Microsoft Implementations

The following Microsoft products implement some portion of [W3C-Ruby]:

- Windows® Internet Explorer® 7
- Windows® Internet Explorer® 8
- Windows® Internet Explorer® 9

In addition, each version of Windows® Internet Explorer® implements multiple document modes, which can vary individually in their support of the standard. The following table lists the document modes available in each version of Internet Explorer:

Browser Version	Documents Modes Supported
Internet Explorer 7	Quirks Mode

Browser Version	Documents Modes Supported
	Standards Mode
Internet Explorer 8	Quirks Mode IE7 Mode IE8 Mode
Internet Explorer 9	Quirks Mode IE7 Mode IE8 Mode IE9 Mode

Throughout this document, the document mode appears first followed by the browser version in parentheses. Only those document modes and browser versions for which there is a variation note will be listed. If the document mode is not listed, conformance to the specification can be assumed.

Note "Standards mode" in Internet Explorer 7 and "IE7 mode" in Internet Explorer 8 refer to the same document mode. "IE7 mode" is the preferred way of referring to this document mode across all versions of the browser. In addition, "IE5 mode" and "quirks mode" refer to the same document mode in Internet Explorer 9.

1.4 Standards Support Requirements

To conform to [\[W3C-Ruby\]](#) a user agent must implement all required portions of the specification. Any optional portions that have been implemented must also be implemented as described by the specification. Normative language is usually used to define both required and optional portions. (For more information, see [\[RFC2119\]](#).)

The following table lists the sections of [\[W3C-Ruby\]](#) and whether they are considered normative or informative.

Sections	Normative/Informative
1-3	Normative
4	Informative
Appendix A-E	Informative

1.5 Notation

The following notations are used in this document to differentiate between notes of clarification, variation from the specification, and extension points.

Notation	Explanation
C####	This identifies a clarification of ambiguity in the target specification. This includes imprecise statements, omitted information, discrepancies, and errata. This does not include data formatting clarifications.
V####	This identifies an intended point of variability in the target specification such as the use of MAY, SHOULD, or RECOMMENDED. (See [RFC2119] .) This does not include extensibility points.

Notation	Explanation
E####	Because the use of extensibility points (such as optional implementation-specific data) can impair interoperability, this profile identifies such points in the target specification.

For document mode and browser version notation, see also section [1.3](#).

2 Standards Support Statements

This section contains a full list of variations, clarifications, and extension points in the Microsoft implementation of [\[W3C-Ruby\]](#).

- Section [2.1](#) includes only those variations that violate a MUST requirement in the target specification.
- Section [2.2](#) describes further variations from MAY and SHOULD requirements.
- Section [2.3](#) identifies variations in error handling.
- Section [2.4](#) identifies variations that impact security.

2.1 Normative Variations

The following subsections detail the normative variations from MUST requirements in [\[W3C-Ruby\]](#).

2.1.1 [W3C-RUBY] Section 2.4, The rtc element

V0001:

The specification states:

The `rtc` (ruby text container) element serves as the container for `rt` elements in the case of complex ruby markup. One or two `rtc` elements may appear inside a `ruby` element to associate ruby texts with a single base text, represented by an `rb` element. More than two `rtc` elements MUST NOT appear inside a `ruby` element.

All Document Modes (All Versions)

All **rtc** elements within **ruby** elements are displayed.

2.1.2 [W3C-RUBY] Section 2.6, The rt element

V0002:

The specification states:

The `rt` element may contain inline elements or character data as its content, but the `ruby` element is not allowed as its descendant element.

All Document Modes (All Versions)

The **ruby** element is allowed as a descendent element to the **rt** element.

V0003:

The specification states:

In complex ruby markup, the `rbspan` attribute allows an `rt` element to span multiple `rb` elements. The value shall be an integer value greater than zero ("0"). The default value of this attribute is one ("1"). The `rbspan` attribute should not be used in simple ruby markup, and user agents should ignore the `rbspan` attribute when

it appears in simple ruby markup.

All Document Modes (All Versions)

The **rbspan** attribute is not supported in **rt** elements.

2.1.3 [W3C-RUBY] Section 2.7, The rp element

V0004:

The specification states:

The **rp** element can be used in the case of simple ruby markup to specify characters that can denote the beginning and end of ruby text when user agents do not have other ways to present ruby text distinctively from the base text. Parentheses (or similar characters) can provide an acceptable fallback. In this situation, ruby text will only degrade to be rendered inline and enclosed in the fallback parentheses. This is the least inappropriate rendering under the condition that only inline rendering is available. The **rp** element cannot be used with complex ruby markup.

All Document Modes (All Versions)

The **rp** element is allowed within complex **ruby** elements.

2.2 Clarifications

The following subsections identify clarifications to recommendations made by [\[W3C-Ruby\]](#).

2.2.1 [W3C-RUBY] Section 2.2, The ruby element

C0001:

The specification states:

The **ruby** element is an inline (or text-level) element that serves as an overall container. It contains either the **rb**, **rt** and optional **rp** elements (simple ruby markup) or the **rbc** and **rtc** elements (complex ruby markup).

All Document Modes (All Versions)

The **dir** attribute is not supported in simple or complex **ruby** elements.

2.2.2 [W3C-RUBY] Section 2.3, The rbc element

C0002:

The specification states:

The **rbc** (ruby base container) element serves as the container for **rb** elements in the case of complex ruby markup. Only one **rbc** element may appear inside a **ruby** element.

All Document Modes (All Versions)

All **rb** elements within **ruby** elements are displayed.

2.2.3 [W3C-RUBY] Section 2.5, The rb element

C0003:

The specification states:

The rb (ruby base) element serves to markup the base text. For simple ruby markup, only one rb element may appear. For complex ruby markup, multiple rb elements may appear inside an rbc element. Each rb element is associated with a corresponding rt element, for fine-grained control of ruby presentation. The rb element may contain inline elements or character data as its content, but the ruby element is not allowed as its descendant element.

All Document Modes (All Versions)

The following clarifications apply:

- All **rb** elements within simple or complex **ruby** elements are displayed.
- No error handling occurs for an **rb** element with a descendant **ruby** element.

2.2.4 [W3C-RUBY] Section 2.6, The rt element

C0004:

The specification states:

The rt element is the markup for ruby text. For simple ruby markup, only one rt element may appear. For complex ruby markup, multiple rt elements may appear inside an rtc element, and each rt element contains the ruby text for the relevant base text, represented by the corresponding rb element.

All Document Modes (All Versions)

All **rt** elements within simple or complex **ruby** elements are displayed.

2.3 Error Handling

There are no additional considerations for error handling.

2.4 Security

There are no additional security considerations.

3 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

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