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## Revision Summary

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision History</th>
<th>Revision Class</th>
<th>Comments</th>
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<td>3/17/2010</td>
<td>0.1</td>
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<td>Released new document.</td>
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<td>Introduced no new technical or language changes.</td>
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</table>
# Table of Contents

1 **Introduction** ..................................................................................................................... 4  
   1.1 Glossary ........................................................................................................................... 4  
   1.2 References ....................................................................................................................... 4  
      1.2.1 Normative References ............................................................................................... 4  
      1.2.2 Informative References ............................................................................................. 4  
   1.3 Microsoft Implementations .............................................................................................. 4  
   1.4 Standards Support Requirements .................................................................................... 5  
   1.5 Notation ......................................................................................................................... 6  

2 **Standards Support Statements** .......................................................................................... 7  
   2.1 Normative Variations ...................................................................................................... 7  
      2.1.1 [DOM Level 2 - Style] Section 1.2, Style Sheet Interfaces ........................................ 7  
      2.1.2 [DOM Level 2 - Style] Section 1.3, Document Extensions ......................................... 8  
      2.1.3 [DOM Level 2 - Style] Section 1.4, Association between a style sheet and a document ........................................................... 8  
      2.1.4 [DOM Level 2 - Style] Section 2.2, CSS Fundamental Interfaces ............................. 9  
      2.1.5 [DOM Level 2 - Style] Section 2.2.1, Override and computed style sheet .......... 15  
      2.1.6 [DOM Level 2 - Style] Section 2.2.2, Style sheet creation ...................................... 16  
      2.1.7 [DOM Level 2 - Style] Section 2.3, CSS2 Extended Interface ............................... 16  
   2.2 Clarifications .................................................................................................................. 27  
   2.3 Extensions .................................................................................................................... 27  
      2.3.1 [DOM Level 2 - Style] Section 2.3, CSS2 Extended Interface ............................... 28  
   2.4 Error Handling ............................................................................................................. 34  
   2.5 Security ........................................................................................................................ 34  

3 **Change Tracking** ................................................................................................................ 35  

4 **Index** ............................................................................................................................... 36
1 Introduction

This document describes the level of support provided by Microsoft web browsers for the Document Object Model (DOM) Level 2 Style Specification Version 1.0 [DOM Level 2 - Style], published 13 November 2000.

The [DOM Level 2 - Style] specification may contain guidance for authors of webpages and browser users, in addition to user agents (browser applications). Statements found in this document apply only to normative requirements in the specification targeted to user agents, not those targeted to authors.

1.1 Glossary

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

1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the Errata.

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.


1.2.2 Informative References

None.

1.3 Microsoft Implementations

The following Microsoft web browser versions implement some portion of [DOM Level 2 - Style]:

- Windows Internet Explorer 7
- Windows Internet Explorer 8
- Windows Internet Explorer 9
- Windows Internet Explorer 10
- Internet Explorer 11
- Internet Explorer 11 for Windows 10
- Microsoft Edge
Each browser version may implement multiple document rendering modes. The modes vary from one to another in support of the standard. The following table lists the document modes supported by each browser version.

<table>
<thead>
<tr>
<th>Browser Version</th>
<th>Document Modes Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet Explorer 7</td>
<td>Quirks Mode</td>
</tr>
<tr>
<td></td>
<td>Standards Mode</td>
</tr>
<tr>
<td>Internet Explorer 8</td>
<td>Quirks Mode</td>
</tr>
<tr>
<td></td>
<td>IE7 Mode</td>
</tr>
<tr>
<td></td>
<td>IE8 Mode</td>
</tr>
<tr>
<td>Internet Explorer 9</td>
<td>Quirks Mode</td>
</tr>
<tr>
<td></td>
<td>IE7 Mode</td>
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<tr>
<td></td>
<td>IE8 Mode</td>
</tr>
<tr>
<td></td>
<td>IE9 Mode</td>
</tr>
<tr>
<td>Internet Explorer 10</td>
<td>Quirks Mode</td>
</tr>
<tr>
<td></td>
<td>IE7 Mode</td>
</tr>
<tr>
<td></td>
<td>IE8 Mode</td>
</tr>
<tr>
<td></td>
<td>IE9 Mode</td>
</tr>
<tr>
<td></td>
<td>IE10 Mode</td>
</tr>
<tr>
<td>Internet Explorer 11</td>
<td>Quirks Mode</td>
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<tr>
<td></td>
<td>IE7 Mode</td>
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<tr>
<td></td>
<td>IE8 Mode</td>
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<tr>
<td></td>
<td>IE9 Mode</td>
</tr>
<tr>
<td></td>
<td>IE10 Mode</td>
</tr>
<tr>
<td>Internet Explorer 11 for Windows 10</td>
<td>Quirks Mode</td>
</tr>
<tr>
<td></td>
<td>IE7 Mode</td>
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<tr>
<td></td>
<td>IE8 Mode</td>
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<td></td>
<td>IE9 Mode</td>
</tr>
<tr>
<td></td>
<td>IE10 Mode</td>
</tr>
<tr>
<td></td>
<td>IE11 Mode</td>
</tr>
<tr>
<td>Microsoft Edge</td>
<td>EdgeHTML Mode</td>
</tr>
</tbody>
</table>

For each variation presented in this document there is a list of the document modes and browser versions that exhibit the behavior described by the variation. All combinations of modes and versions that are not listed conform to the specification. For example, the following list for a variation indicates that the variation exists in three document modes in all browser versions that support these modes:

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

**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.

### 1.4 Standards Support Requirements

To conform to [DOM Level 2 - Style](https://www.w3.org/DOM/level2/html) 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 [DOM Level 2 - Style] and whether they are considered normative or informative.

<table>
<thead>
<tr>
<th>Sections</th>
<th>Normative/Informative</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-4</td>
<td>Normative</td>
</tr>
<tr>
<td>Appendix A-D</td>
<td>Informative</td>
</tr>
</tbody>
</table>

### 1.5 Notation

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

<table>
<thead>
<tr>
<th>Notation</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>C####</td>
<td>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.</td>
</tr>
<tr>
<td>V####</td>
<td>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.</td>
</tr>
<tr>
<td>E####</td>
<td>Identifies extensibility points (such as optional implementation-specific data) in the target specification, which can impair interoperability.</td>
</tr>
</tbody>
</table>

For document mode and browser version notation, see section 1.3.
2  Standards Support Statements

This section contains all variations, clarifications, and extensions for the Microsoft implementation of [DOM Level 2 - Style].

- Section 2.1 describes normative variations from the MUST requirements of the specification.
- Section 2.2 describes clarifications of the MAY and SHOULD requirements.
- Section 2.3 describes extensions to the requirements.
- Section 2.4 considers error handling aspects of the implementation.
- Section 2.5 considers security aspects of the implementation.

2.1  Normative Variations

The following subsections describe normative variations from the MUST requirements of [DOM Level 2 - Style].

2.1.1  [DOM Level 2 - Style] Section 1.2, Style Sheet Interfaces

V0001:

The specification states:

```plaintext
href of type DOMString, readonly
If the style sheet is a linked style sheet, the value of its attribute is its location. For inline style sheets, the value of this attribute is null.
```

**Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)**

The `href` attribute of the `StyleSheet` interface is not treated as read-only. It is possible to get and set the `href` attribute. If `href` is set to a new value, the new style sheet is read and applied to the document in place of the original style sheet.

The `href` attribute for an inline style sheet is returned as an empty string, instead of null.

V0002:

The specification states:

```plaintext
media of type MediaList, readonly
The intended destination media for style information. The media is often specified in the ownerNode. If no media has been specified, the MediaList will be empty.
```

**Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)**

The `media` attribute of the `StyleSheet` interface has read/write access; it is of type string, not `MediaList`.

V0003:

The specification states:

```plaintext
ownerNode of type Node, readonly
```
The node that associates this style sheet with the document. For HTML, this may be the corresponding LINK or STYLE element. For XML, it may be the linking processing instruction. For style sheets that are included by other style sheets, the value of this attribute is null.

Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)

The **ownerNode** attribute of the **StyleSheet** interface is not supported. Similar functionality is provided by the **owningElement** attribute.

V0004:

The specification states:

```
title of type DOMString, readonly

The advisory title. The title is often specified in the ownerNode.
```

Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)

The **title** attribute of the **StyleSheet** interface has read/write access.

V0005:

The specification states:

```
The MediaList interface provides the abstraction of an ordered collection of media, without defining or constraining how this collection is implemented. An empty list is the same as a list that contains the medium "all".
The items in the MediaList are accessible via an integral index, starting from 0.
```

Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)

The **MediaList** interface is not supported. The **media** attribute of the **StyleSheet** interface is of type string, not **MediaList**.

2.1.2 [DOM Level 2 - Style] Section 1.3, Document Extensions

V0006:

The specification states:

```
The LinkStyle interface provides a mechanism by which a style sheet can be retrieved from the node responsible for linking it into a document. An instance of the LinkStyle interface can be obtained using binding-specific casting methods on an instance of a linking node (HTMLLinkElement, HTMLStyleElement or ProcessingInstruction in DOM Level 2).
```

Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)

The **LinkStyle** interface is not supported.

2.1.3 [DOM Level 2 - Style] Section 1.4, Association between a style sheet and a document.

V0007:
The specification states:

The underlying style sheet will be created after the element is inserted into the document and the type attribute is set in a way indicating that the element corresponds to a style sheet language interpreted by the user agent.

**Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)**

Inserting a style sheet by creating a new **STYLE** element is supported, but rules can be edited only through the **Rules** collection of a **styleSheet** object.

V0008:

The specification states:

**HTML and Style Sheet Removal**

Removing a **LINK** HTML element or a **STYLE** HTML element removes the underlying style sheet from the style sheet collection associated with a document. Specifically, the removed style sheet is no longer applied to the presentation of the document.

**All Document Modes (Internet Explorer 7)**

When removing a **LINK** element or a **STYLE** element from a **document** object through a script, the underlying **styleSheet** is removed from the style sheet collection associated with a document (**document.styleSheets**). However, the style is still applied to the presentation of the document.

### 2.1.4 [DOM Level 2 - Style] Section 2.2, CSS Fundamental Interfaces

V0009:

The specification states:

The **CSSStyleSheet** interface is a concrete interface used to represent a CSS style sheet i.e., a style sheet whose content type is "text/css".

**IDL Definition**

```
// Introduced in DOM Level 2:
interface CSSStyleSheet : stylesheets::StyleSheet {
  readonly attribute CSSRule          ownerRule;
  readonly attribute CSSRuleList      cssRules;
  unsigned long           insertRule(in DOMString rule,
                                      in unsigned long index)
                          raises(DOMException);
  void              deleteRule(in unsigned long index)
                          raises(DOMException);
};
```

**Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)**

The following standard attributes or methods are not supported:

- **cssRules**
- **ownerRule**
- **insertRule**
- **deleteRule**
The following non-standard attributes or methods are supported:

- `readonly`
- `id`
- `imports`
- `pages`
- `rules`
- `addImport`
- `addPageRule`
- `addRule`
- `removeImport`
- `removeRule`

**IE8 Mode (All Versions)**

The additional attributes `isAlternate` and `isPrefAlternate` are supported.

**V0010:**

The specification states:

The `CSSRule` interface is the abstract base interface for any type of CSS statement. This includes both rule sets and at-rules. An implementation is expected to preserve all rules specified in a CSS style sheet, even if the rule is not recognized by the parser. Unrecognized rules are represented using the `CSSUnknownRule` interface.

**IDL Definition**

```javascript
// Introduced in DOM Level 2:
interface CSSRule {
    // RuleType
    const unsigned short UNKNOWN_RULE = 0;
    const unsigned short STYLE_RULE   = 1;
    const unsigned short CHARSET_RULE = 2;
    const unsigned short IMPORT_RULE  = 3;
    const unsigned short MEDIA_RULE   = 4;
    const unsigned short FONT_FACE_RULE = 5;
    const unsigned short PAGE_RULE    = 6;

    readonly attribute unsigned short type;
    attribute DOMString cssText;
    // raises(DOMException) on setting

    readonly attribute CSSStyleSheet parentStyleSheet;
    readonly attribute CSSRule parentRule;
}
```

**Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)**

The following variations apply:

- The `CSSRule` interface is not supported.
The **rule** object can be used to represent a style within a style sheet that consists of a selector and one or more declarations.

The **page** object represents an @page rule within a **stylesheet** object.

The **imports** object represents an @import rule within a **stylesheet** object.

**IE9 Mode, IE10 Mode, and IE11 Mode (All Versions)**

The **CSSRule** interface is supported, but the **UNKNOWN_RULE** and **CHARSET_RULE** rule types are not supported.

Setting the **cssText** attribute does not raise a **DOMException** exception. The command to set the **cssText** attribute is ignored.

**V0011:**

The specification states:

```plaintext
The CSSStyleRule interface represents a single rule set in a CSS style sheet.

IDL Definition
// Introduced in DOM Level 2:
interface CSSStyleRule : CSSRule {
    attribute DOMString selectorText;
    // raises(DOMException) on setting
    readonly attribute CSSStyleDeclaration style;
};
```

**Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)**

The following variations apply:

- The **CSSStyleRule** interface does not support the inherited properties of the **CSSRule** interface.
- The **readOnly** property is an additional supported property.
- The **selectorText** property is read-only.

**IE9 Mode, IE10 Mode, IE11 Mode, and EdgeHTML Mode (All Versions)**

Setting **selectorText** does not raise a **DOMException**. The command is ignored.

**V0012:**

The specification states:

```plaintext
The CSSMediaRule interface represents a @media rule in a CSS style sheet. A @media rule can be used to delimit style rules for specific media types.

IDL Definition
// Introduced in DOM Level 2:
interface CSSMediaRule : CSSRule {
    readonly attribute stylesheets::MediaList media;
    readonly attribute CSSRuleList cssRules;
    unsigned long insertRule(in DOMString rule,
        in unsigned long index)
        raises(DOMException);
    void deleteRule(in unsigned long index)
        raises(DOMException);
};
```
Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)

The **CSSMediaRule** interface is not supported.

V0013:

The specification states:

The CSSFontFaceRule interface represents a @font-face rule in a CSS style sheet. The @font-face rule is used to hold a set of font descriptions.

IDL Definition

```javascript
// Introduced in DOM Level 2:
interface CSSFontFaceRule : CSSRule {
  readonly attribute CSSStyleDeclaration style;
};
```

Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)

The **CSSFontFaceRule** interface is not supported.

V0014:

The specification states:

The CSSPageRule interface represents a @page rule within a CSS style sheet. The @page rule is used to specify the dimensions, orientation, margins, etc. of a page box for paged media.

Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)

The **CSSPageRule** interface is not supported.

The `page` object represents an @page rule within a style sheet.

V0015:

The specification states:

The CSSImportRule interface represents a @import rule within a CSS style sheet. The @import rule is used to import style rules from other style sheets.

Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)

The **CSSImportRule** interface is not supported.

The `imports` collection represents an @import rule within a style sheet.

V0016:

The specification states:

The CSSCharsetRule interface represents a @charset rule in a CSS style sheet. The value of the encoding attribute does not affect the encoding of text data in the
DOM objects; this encoding is always UTF-16. After a stylesheet is loaded, the value of the encoding attribute is the value found in the @charset rule. If there was no @charset in the original document, then no CSSCharsetRule is created. The value of the encoding attribute may also be used as a hint for the encoding used on serialization of the style sheet.

The value of the @charset rule (and therefore of the CSSCharsetRule) may not correspond to the encoding the document actually came in; character encoding information e.g. in an HTTP header, has priority (see CSS document representation) but this is not reflected in the CSSCharsetRule.

All Document Modes (All Versions)

The CSSCharsetRule interface is not supported.

V0017:

The specification states:

The CSSUnknownRule interface represents an at-rule not supported by this user agent.

All Document Modes (All Versions)

The CSSUnknownRule interface is not supported.

V0018:

The specification states:

The CSSStyleDeclaration interface represents a single CSS declaration block. This interface may be used to determine the style properties currently set in a block or to set style properties explicitly within the block. While an implementation may not recognize all CSS properties within a CSS declaration block, it is expected to provide access to all specified properties in the style sheet through the CSSStyleDeclaration interface. Furthermore, implementations that support a specific level of CSS should correctly handle CSS shorthand properties for that level. For a further discussion of shorthand properties, see the CSS2Properties interface.

This interface is also used to provide a read-only access to the computed values of an element. See also the ViewCSS interface.

Note: The CSS Object Model doesn't provide an access to the specified or actual values of the CSS cascade.

IDL Definition

// Introduced in DOM Level 2:
interface CSSStyleDeclaration {
    attribute DOMString cssText;
    // raises(DOMException) on setting
    DOMString getPropertyValue(in DOMString propertyName);
    CSSValue getPropertyCSSValue(in DOMString propertyName);
    DOMString removeProperty(in DOMString propertyName)
        raises(DOMException);
    DOMString getPropertyPriority(in DOMString propertyName);
    void setProperty(in DOMString propertyName,
        in DOMString value,
        in DOMString priority)
        raises(DOMException);
    readonly attribute unsigned long length;
    DOMString item(in unsigned long index);
    readonly attribute CSSRule parentRule;
};

Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)
The `cssText` attribute is the only attribute supported in the `CSSStyleDeclaration` interface.

**IE9 Mode, IE10 Mode, IE11 Mode, and EdgeHTML Mode (All Versions)**

The `getPropertyPriority` method returns an empty string for the following shorthand properties even if they have a priority (for example, "important"):

- `border-color`
- `border-style`
- `border-top`
- `border-right`
- `border-bottom`
- `border-left`
- `border-width`
- `font`
- `list-style`
- `margin`
- `outline`
- `padding`

The `getPropertyCSSValue` method is not supported.

**V0019:**

The specification states:

> The CSSValue interface represents a simple or a complex value. A CSSValue object only occurs in a context of a CSS property.

**All Document Modes (All Versions)**

The `CSSValue` interface is not supported.

**V0020:**

The specification states:

> The CSSPrimitiveValue interface represents a single CSS value. This interface may be used to determine the value of a specific style property currently set in a block or to set a specific style property explicitly within the block.

**All Document Modes (All Versions)**

The `CSSPrimitiveValue` interface is not supported.

**V0021:**

The specification states:
The CSSValueList interface provides the abstraction of an ordered collection of CSS values.

**All Document Modes (All Versions)**

The **CSSValueList** interface is not supported.

V0022:

The specification states:

The RGBColor interface is used to represent any RGB color value. This interface reflects the values in the underlying style property.

**All Document Modes (All Versions)**

The **RGBColor** interface is not supported.

V0023:

The specification states:

The Rect interface is used to represent any rect value. This interface reflects the values in the underlying style property.

**All Document Modes (All Versions)**

The **Rect** interface is not supported.

V0024:

The specification states:

The Counter interface is used to represent any counter or counters function value. This interface reflects the values in the underlying style property.

**All Document Modes (All Versions)**

The **Counter** interface is not supported.

### 2.1.5 [DOM Level 2 - Style] Section 2.2.1, Override and computed style sheet

V0025:

The specification states:

Interface ViewCSS (introduced in DOM Level 2)
This interface represents a CSS view. The getComputedStyle method provides a read only access to the computed values of an element.

**Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)**

The **ViewCSS** interface is not supported.

**IE9 Mode, IE10 Mode, and IE11 Mode (All Versions)**
The `getComputedStyle` method incorrectly returns "0% 0%" when the style of the element to be computed has the value of `inherit` for the `background-position` property.

V0026:

The specification states:

```
Interface DocumentCSS (introduced in DOM Level 2)
This interface represents a document with a CSS view.
```

**All Document Modes (All Versions)**

The `DocumentCSS` interface is not supported.

2.1.6 [DOM Level 2 - Style] Section 2.2.2, Style sheet creation

V0027:

The specification states:

```
Interface DOMImplementationCSS (introduced in DOM Level 2).
This interface allows the DOM user to create a CSSStyleSheet outside the context of a document. There is no way to associate the new CSSStyleSheet with a document in DOM Level 2
```

**All Document Modes (All Versions)**

The `DOMImplementationCSS` interface is not supported.

2.1.7 [DOM Level 2 - Style] Section 2.3, CSS2 Extended Interface

V0028:

The specification states:

```
azimuth of type DOMString
See the azimuth property definition in CSS2.

Exceptions on setting
DOMException
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.
```

**All Document Modes (All Versions)**

The `azimuth` property of the `CSS2Properties` interface is not supported.

V0029:

The specification states:

```
background of type DOMString
See the background property definition in CSS2.

Exceptions on setting
DOMException
```
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.

NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

**Quirks Mode (All Versions)**

Setting the **background** property to normal is the same as setting **background** to none transparent scroll repeat 0% 0%.

**V0030:**

The specification states:

- `border` of type DOMString
  
  See the border property definition in CSS2.

  **Exceptions on setting**
  
  DOMException
  
  SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.

  NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

**Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)**

When setting the **border** property by using longhand (for example, `border-width:thick; border-style:dotted;`), **border** returns blank unless there is either a **style** or **width** property present.

**IE7 Mode (Internet Explorer 7)**

The **border**, **borderRight**, **borderLeft**, **borderTop**, and **borderBottom** properties are always displayed as blank unless there is either a **style** or a **width** property present. This is regardless of how the property was set by using shorthand or by using longhand.

**V0031:**

The specification states:

- `borderSpacing` of type DOMString
  
  See the border-spacing property definition in CSS2.

  **Exceptions on setting**
  
  DOMException
  
  SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.

  NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

**All Document Modes (Internet Explorer 7)**

The **borderSpacing** property is not supported.

**Quirks Mode and IE7 Mode (All Versions)**

Setting the **borderSpacing** property in the DOM has no effect on layout. The property can be read and set from the DOM but it will not be taken into consideration when laying out the page.

**V0032:**

The specification states:

- `captionSide` of type DOMString
See the caption-side property definition in CSS2.

Exceptions on setting
DOMException
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (Internet Explorer 7)
The captionSide property is not supported.

Quirks Mode and IE7 Mode (All Versions)
Setting the captionSide property in the DOM has no effect on layout. The property can be read and set from the DOM but it will not be taken into consideration when laying out the page.

V0033:
The specification states:

clip of type DOMString
See the clip property definition in CSS2.

Exceptions on setting
DOMException
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

IE7 Mode (All Versions)
The clip property is returned as an empty string instead of the correct value.

V0034:
The specification states:

cssFloat of type DOMString
See the float property definition in CSS2.

Exceptions on setting
DOMException
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)
The cssFloat property is not supported. Similar functionality is provided by the styleFloat property.

V0035:
The specification states:

cue of type DOMString
See the cue property definition in CSS2.

Exceptions on setting
DOMException
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.
Quirks Mode, IE7 Mode, IE8 Mode, IE9 Mode, IE10 Mode, and IE11 Mode (All Versions)

The **cue** property is not supported.

V0036:

The specification states:

```plaintext
cueAfter of type DOMString
See the cue-after property definition in CSS2.
```

Exceptions on setting
DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

---

All Document Modes (All Versions)

The **cueAfter** property is not supported.

V0037:

The specification states:

```plaintext
cueBefore of type DOMString
See the cue-before property definition in CSS2.
```

Exceptions on setting
DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

---

All Document Modes (All Versions)

The **cueBefore** property is not supported.

V0038:

The specification states:

```plaintext
elevation of type DOMString
See the elevation property definition in CSS2.
```

Exceptions on setting
DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

---

All Document Modes (All Versions)

The **elevation** property is not supported.

V0039:

The specification states:

```plaintext
fontSizeAdjust of type DOMString
See the font-size-adjust property definition in CSS2.
```
Exceptions on setting
DOMException
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

**Quirks Mode, IE7 Mode, IE8 Mode, and IE9 Mode (All Versions)**

The `fontSizeAdjust` property is not supported.

V0040:

The specification states:

```plaintext
fontStretch of type DOMString
See the font-stretch property definition in CSS2.
```

Exceptions on setting
DOMException
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

**Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)**

The `fontStretch` property is not supported.

V0041:

The specification states:

```plaintext
markerOffset of type DOMString
See the marker-offset property definition in CSS2.
```

Exceptions on setting
DOMException
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

**All Document Modes (All Versions)**

The `markerOffset` property is not supported.

V0042:

The specification states:

```plaintext
marks of type DOMString
See the marks property definition in CSS2.
```

Exceptions on setting
DOMException
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

**All Document Modes (All Versions)**

The `marks` property is not supported.
V0043:
The specification states:

orphans of type DOMString  
See the orphans property definition in CSS2.

Exceptions on setting  
DOMException  
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.  
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (Internet Explorer 7)
The orphans property is not supported.

Quirks Mode and IE7 Mode (Internet Explorer 8 and Internet Explorer 9)
Setting the orphans property in the DOM has no effect on the page layout. The property can be read and set from the DOM but it will not be taken into consideration when laying out the page.

V0044:
The specification states:

outline of type DOMString  
See the outline property definition in CSS2.

Exceptions on setting  
DOMException  
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.  
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (Internet Explorer 7)
The outline property is not supported.

Quirks Mode and IE7 Mode (Internet Explorer 8 and Internet Explorer 9)
The outline property is accessible from the DOM. However, changing its value has no effect on the page layout. The value of this DOM property is ignored.

V0045:
The specification states:

outlineColor of type DOMString  
See the outline-color property definition in CSS2.

Exceptions on setting  
DOMException  
SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.  
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (Internet Explorer 7)
The outlineColor property is not supported.
Quirks Mode and IE7 Mode (Internet Explorer 8 and Internet Explorer 9)

Setting the **outlineColor** property in the DOM has no effect on the page layout. The property can be read and set from the DOM but it will not be taken into consideration when laying out the page.

V0046:

The specification states:

```
outlineStyle of type DOMString
See the outline-style property definition in CSS2.
```

Exceptions on setting

DOMException

SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.

NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (Internet Explorer 7)

The **outlineStyle** property is not supported.

Quirks Mode and IE7 Mode (Internet Explorer 8 and Internet Explorer 9)

Setting the **outlineStyle** property in the DOM has no effect on layout. The property can be read and set from the DOM but it will not be taken into consideration when laying out the page.

V0047:

The specification states:

```
outlineWidth of type DOMString
See the outline-width property definition in CSS2.
```

Exceptions on setting

DOMException

SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.

NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (Internet Explorer 7)

The **outlineWidth** property is not supported.

Quirks Mode and IE7 Mode (Internet Explorer 8 and Internet Explorer 9)

Setting the **outlineWidth** property in the DOM does not affect the layout. The property can be read and set from the DOM but it is not used during page layout.

V0048:

The specification states:

```
pag of type DOMString
See the page property definition in CSS2.
```

Exceptions on setting

DOMException

SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

_all document modes (all versions)_

The **page** property is not supported.

V0049:

The specification states:

```plaintext
pause of type DOMString
See the pause property definition in CSS2.
```

Exceptions on setting

DOMException

SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.

NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

_all document modes (all versions)_

The **pause** property is not supported.

V0050:

The specification states:

```plaintext
pauseAfter of type DOMString
See the pause-after property definition in CSS2.
```

Exceptions on setting

DOMException

SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.

NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

_all document modes (all versions)_

The **pauseAfter** property is not supported.

V0051:

The specification states:

```plaintext
pauseBefore of type DOMString
See the pause-before property definition in CSS2.
```

Exceptions on setting

DOMException

SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.

NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

_all document modes (all versions)_

The **pauseBefore** property is not supported.
V0052:
The specification states:

- `pitch` of type DOMString
  See the `pitch` property definition in CSS2.

  Exceptions on setting
  DOMException
  
  SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
  
  NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

**All Document Modes (All Versions)**

The **pitch** property is not supported.

V0053:
The specification states:

- `pitchRange` of type DOMString
  See the `pitch-range` property definition in CSS2.

  Exceptions on setting
  DOMException
  
  SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
  
  NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

**All Document Modes (All Versions)**

The **pitchRange** property is not supported.

V0054:
The specification states:

- "playDuring" of type DOMString
  See the `play-during` property definition in CSS2.

  Exceptions on setting
  DOMException
  
  SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
  
  NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

**All Document Modes (All Versions)**

The **playDuring** property is not supported.

V0055:
The specification states:

- `richness` of type DOMString
  See the `richness` property definition in CSS2.

  Exceptions on setting
  DOMException
  
  SYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
  
  NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.
All Document Modes (All Versions)

The **richness** property is not supported.

V0056:

The specification states:

- `size` of type DOMString
  - See the `size` property definition in CSS2.

  Exceptions on setting
  - DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
  - NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (All Versions)

The **size** property is not supported.

V0057:

The specification states:

- `speak` of type DOMString
  - See the `speak` property definition in CSS2.

  Exceptions on setting
  - DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
  - NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (All Versions)

The **speak** property is not supported.

V0058:

The specification states:

- `speakHeader` of type DOMString
  - See the `speak-header` property definition in CSS2.

  Exceptions on setting
  - DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
  - NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (All Versions)

The **speakHeader** property is not supported.

V0059:

The specification states:

- `speakNumeral` of type DOMString
  - See the `speak-numeral` property definition in CSS2.

  Exceptions on setting
  - DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
  - NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.
All Document Modes (All Versions)

The **speakNumeral** property is not supported.

V0060:

The specification states:

```
spreakPunctuation of type DOMString
See the speak-punctuation property definition in CSS2.
```

Exceptions on setting
- DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
- NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (All Versions)

The **speakPunctuation** property is not supported.

V0061:

The specification states:

```
speechRate of type DOMString
See the speech-rate property definition in CSS2.
```

Exceptions on setting
- DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
- NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (All Versions)

The **speechRate** property is not supported.

V0062:

The specification states:

```
stress of type DOMString
See the stress property definition in CSS2.
```

Exceptions on setting
- DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
- NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.

All Document Modes (All Versions)

The **stress** property is not supported.

V0063:

The specification states:

```
textShadow of type DOMString
See the text-shadow property definition in CSS2.
```

Exceptions on setting
- DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
- NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.
Quirks Mode, IE7 Mode, IE8 Mode, and IE9 Mode (All Versions)

The **textShadow** property is not supported.

V0064:

The specification states:

```plaintext
voiceFamily of type DOMString
See the voice-family property definition in CSS2.

Exceptions on setting
DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.
```

All Document Modes (All Versions)

The **voiceFamily** property is not supported.

V0065:

The specification states:

```plaintext
volume of type DOMString
See the volume property definition in CSS2.

Exceptions on setting
DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.
```

All Document Modes (All Versions)

The **volume** property is not supported.

V0066:

The specification states:

```plaintext
whiteSpace of type DOMString
See the white-space property definition in CSS2.

Exceptions on setting
DOMExceptionSYNTAX_ERR: Raised if the new value has a syntax error and is unparsable.
NO_MODIFICATION_ALLOWED_ERR: Raised if this property is readonly.
```

Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)

Setting the **whiteSpace** property in the DOM has no effect on layout. The property can be read and set from the DOM but it will not be taken into consideration when laying out the page.

2.2 Clarifications

There are no clarifications of the MAY and SHOULD requirements of [DOM Level 2 - Style].

2.3 Extensions

The following subsection describes extensions to the requirements of [DOM Level 2 - Style].
2.3.1 [DOM Level 2 - Style] Section 2.3, CSS2 Extended Interface

E0001:

The specification states:

Interface CSS2Properties (introduced in DOM Level 2)
The CSS2Properties interface represents a convenience mechanism for retrieving and setting properties within a CSSStyleDeclaration. The attributes of this interface correspond to all the properties specified in CSS2. Getting an attribute of this interface is equivalent to calling the getPropertyValue method of the CSSStyleDeclaration interface. Setting an attribute of this interface is equivalent to calling the setProperty method of the CSSStyleDeclaration interface.

IE7 Mode, IE8 Mode, and IE9 Mode (All Versions)
The filter property is an additional property that is supported.

IE7 Mode, IE8 Mode, IE9 Mode, IE10 Mode, and IE11 Mode (All Versions)
The following non-standard properties are supported:

- accelerator
- layoutFlow
- layoutGrid
- layoutGridChar
- layoutGridLine
- layoutGridMode
- layoutGridType
- lineBreak
- msInterpolationMode
- pixelBottom
- pixelHeight
- pixelLeft
- pixelRight
- pixelTop
- pixelWidth
- posBottom
- posHeight
- posLeft
- posRight
- posTop
- posWidth
- scrollbar3dLightColor
- scrollbarArrowColor
- scrollbarBaseColor
- scrollbarDarkShadowColor
- scrollbarFaceColor
- scrollbarHighlightColor
- scrollbarShadowColor
- scrollbarTrackColor
- styleFloat
- textAutospace
- textDecorationBlink
- textDecorationLineThrough
- textDecorationNone
- textDecorationOverline
- textDecorationUnderline
- textJustifyTrim

IE7 Mode, IE8 Mode, IE9 Mode, IE10 Mode, IE11 Mode, and EdgeHTML Mode (All Versions)

The following non-standard properties are supported:

- backgroundPositionX
- backgroundPositionY
- imeMode
- overflow
- overflowX
- overflowY
- rubyAlign
- rubyOverhang
- rubyPosition
- textAlignLast
- textJustify
- textKashida
- textKashidaSpace
• textOverflow
• textUnderlinePosition
• wordbreak
• writingMode

zoommode

IE7 Mode, IE8 Mode, IE9 Mode, IE10 Mode (All Versions)

The following non-standard properties are supported:
• behavior

IE8 Mode (All Versions)

The following non-standard properties are supported:
• msBlockProgression
• msBoxSizing

IE9 Mode, IE10 Mode, and IE11 Mode (All Versions)

The following non-standard properties are supported:
• accelerator
• backgroundPositionX
• backgroundPositionY
• imeMode
• layoutFlow
• layoutGrid
• layoutGridChar
• layoutGridLine
• layoutGridMode
• layoutGridType
• lineBreak
• msBlockProgression
• msBoxAlign
• msBoxDirection
• msBoxFlex
• msBoxFlexGroup
• msBoxLineProgression
• msBoxLines
- msBoxOrdinalGroup
- msBoxOrient
- msBoxPack
- msGetPropertyEnabled
- msInterpolationMode
- msPutPropertyEnabled
- msTransform
- msTransformOrigin
- overflowX
- overflowY
- pixelBottom
- pixelHeight
- pixelLeft
- pixelRight
- pixelTop
- pixelWidth
- posBottom
- posHeight
- posLeft
- posRight
- posTop
- posWidth
- rubyAlign
- rubyOverhang
- rubyPosition
- scrollbar3dLightColor
- scrollbarArrowColor
- scrollbarBaseColor
- scrollbarDarkShadowColor
- scrollbarFaceColor
- scrollbarHighlightColor
- scrollbarShadowColor
• `scrollbarTrackColor`
• `styleFloat`
• `textAlignLast`
• `textAutospace`
• `textDecorationBlink`
• `textDecorationLineThrough`
• `textDecorationNone`
• `textDecorationOverline`
• `textDecorationUnderline`
• `textJustify`
• `textJustifyTrim`
• `textKashida`
• `textKashidaSpace`
• `textOverflow`
• `textUnderlinePosition`
• `zoom`

**IE10 Mode and IE 11 Mode (All Versions)**

The following non-standard properties are supported:

• `msAnimation`
• `msAnimationDelay`
• `msAnimationDirection`
• `msAnimationDuration`
• `msAnimationFillMode`
• `msAnimationIterationCount`
• `msAnimationName`
• `msAnimationPlayState`
• `msAnimationTimingFunction`
• `msBackfaceVisibility`
• `msContentZoomBoundary`
• `msContentZoomBoundaryMax`
• `msContentZoomBoundaryMin`
• `msContentZoomChaining`
- msContentZooming
- msContentZoomSnap
- msContentZoomSnapPoints
- msContentZoomSnapType
- msFlowFrom
- msFlowInto
- msFontFeatureSettings
- msGridColumn
- msGridColumnAlign
- msGridColumnns
- msGridColumnSpan
- msGridLayer
- msGridRow
- msGridRowAlign
- msGridRows
- msGridRowSpan
- msHighContrastAdjust
- msHyphenateLimitChars
- msHyphenateLimitLines
- msHyphenateLimitZone
- msHyphens
- msOverflowStyle
- msPerspective
- msPerspectiveOrigin
- msScrollBoundary
- msScrollBoundaryBottom
- msScrollBoundaryLeft
- msScrollBoundaryRight
- msScrollBoundaryTop
- msScrollChaining
- msScrollRails
- msScrollSnapPointsX
- `msScrollSnapPointsY`
- `msScrollSnapType`
- `msScrollSnapX`
- `msScrollSnapY`
- `msTouchAction`
- `msTransformStyle`
- `msTransition`
- `msTransitionDelay`
- `msTransitionDuration`
- `msTransitionProperty`
- `msTransitionTimingFunction`
- `msUserSelect`
- `msWrapFlow`
- `msWrapMargin`
- `msWrapThrough`

### 2.4 Error Handling

There are no additional error handling considerations.

### 2.5 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.
4 Index

A

Association between a style sheet and a document 8

C

Change tracking 35
CSS Fundamental Interfaces 9
CSS2 Extended Interface (section 2.1.7 16, section 2.3.1 28)

D

Document Extensions 8

G

Glossary 4

I

Informative references 4
Introduction 4

N

Normative references 4

O

Override and computed style sheet 15

R

References
informative 4
normative 4

S

Style sheet creation 16
Style Sheet Interfaces 7

T

Tracking changes 35