

## [MS-DOM2V]:

# Internet Explorer Document Object Model (DOM) Level 2 Views Standards Support Document

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## Revision Summary

Date	Revision History	Revision Class	Comments
3/17/2010	0.1	New	Released new document.
3/26/2010	1.0	None	Introduced no new technical or language changes.
5/26/2010	1.2	None	Introduced no new technical or language changes.
9/8/2010	1.3	Major	Significantly changed the technical content.
2/10/2011	2.0	None	Introduced no new technical or language changes.
2/22/2012	3.0	Major	Significantly changed the technical content.
7/25/2012	3.1	Minor	Clarified the meaning of the technical content.
6/26/2013	4.0	Major	Significantly changed the technical content.
3/31/2014	4.0	None	No changes to the meaning, language, or formatting of the technical content.
1/22/2015	5.0	Major	Updated for new product version.
7/7/2015	5.1	Minor	Clarified the meaning of the technical content.
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3/22/2016	5.1	None	No changes to the meaning, language, or formatting of the technical content.
11/2/2016	5.1	None	No changes to the meaning, language, or formatting of the technical content.
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# Table of Contents

<b>1</b>	<b>Introduction .....</b>	<b>4</b>
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 .....	6
1.5	Notation.....	6
<b>2</b>	<b>Standards Support Statements.....</b>	<b>7</b>
2.1	Normative Variations .....	7
2.1.1	[DOM Level 2 - Views] Section 1.1, Introduction.....	7
2.1.2	[DOM Level 2 - Views] Section 1.2, Interfaces.....	7
2.2	Clarifications .....	8
2.2.1	[DOM Level 2 - Views] Section 1.1, Introduction.....	8
2.3	Error Handling .....	9
2.4	Security .....	9
<b>3</b>	<b>Change Tracking.....</b>	<b>10</b>
<b>4</b>	<b>Index.....</b>	<b>11</b>

# 1 Introduction

This document describes the level of support provided by Microsoft web browsers for the *Document Object Model (DOM) Level 2 Views Specification Version 1.0* [[DOM Level 2 - Views](#)], W3C Recommendation 13 November, 2000. Internet Explorer displays webpages written in HTML.

The [[DOM Level 2 - Views](#)] 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](mailto:dochelp@microsoft.com). We will assist you in finding the relevant information.

[DOM Level 2 - Core] W3C, "Document Object Model (DOM) Level 2 Core Specification Version 1.0", W3C Recommendation 13 November, 2000, <http://www.w3.org/TR/DOM-Level-2-Core/>

[DOM Level 2 - Views] W3C, "Document Object Model (DOM) Level 2 Views Specification Version 1.0", W3C Recommendation 13 November, 2000, <http://www.w3.org/TR/DOM-Level-2-Views/>

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

### 1.2.2 Informative References

None.

## 1.3 Microsoft Implementations

The following Microsoft web browser versions implement some portion of [[DOM Level 2 - Views](#)]:

- 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 another in support of the standard. The following table lists the document modes supported by each browser version.

Browser Version	Document Modes Supported
Internet Explorer 7	Quirks Mode Standards Mode
Internet Explorer 8	Quirks Mode IE7 Mode IE8 Mode
Internet Explorer 9	Quirks Mode IE7 Mode IE8 Mode IE9 Mode
Internet Explorer 10	Quirks Mode IE7 Mode IE8 Mode IE9 Mode IE10 Mode
Internet Explorer 11	Quirks Mode IE7 Mode IE8 Mode IE9 Mode IE10 Mode IE11 Mode
Internet Explorer 11 for Windows 10	Quirks Mode IE7 Mode IE8 Mode IE9 Mode IE10 Mode IE11 Mode
Microsoft Edge	EdgeHTML Mode

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 [\[DOM Level 2 - Views\]](#) 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 - Views] and whether they are considered normative or informative.

Sections	Normative/Informative
1	Normative
Appendix A-D	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 <a href="#">[RFC2119]</a> .) This does not include extensibility points.
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 [\[DOM Level 2 - Views\]](#).

- 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 [\[DOM Level 2 - Views\]](#).

#### 2.1.1 [DOM Level 2 - Views] Section 1.1, Introduction

V0002:

The specification states:

```
In order to fully support this module, an implementation must also support the
"Core" feature defined defined in the Document Object Model Level 2 Core
specification \[DOM Level 2 - Core\]. Please refer to additional information about
conformance in the DOM Level 2 Core specification.
```

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

The "Core" feature is not fully supported. The **hasFeature** method of the **DOMImplementation** interface returns `false` for the "Core" module and the version strings "1.0" and "2.0."

#### 2.1.2 [DOM Level 2 - Views] Section 1.2, Interfaces

V0003:

The specification states:

```
Interface AbstractView (introduced in DOM Level 2)
A base interface that all views shall derive from.
```

```
IDL Definition
// Introduced in DOM Level 2:
interface AbstractView {
    readonly attribute DocumentView    document;
};
```

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

The **AbstractView** and **DocumentView** interfaces are not supported.

V0004:

The specification states:

document of type `DocumentView`, readonly  
The source `DocumentView` of which this is an `AbstractView`.

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

The **AbstractView** and **DocumentView** interfaces are not supported.

V0005:

The specification states:

Interface `DocumentView` (introduced in DOM Level 2)  
The `DocumentView` interface is implemented by `Document` objects in DOM implementations supporting DOM Views. It provides an attribute to retrieve the default view of a document.

```
IDL Definition
// Introduced in DOM Level 2:
interface DocumentView {
    readonly attribute AbstractView    defaultView;
};
```

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

The **DocumentView** interface is not supported.

V0006:

The specification states:

`defaultView` of type `AbstractView`, readonly  
The default `AbstractView` for this `Document`, or null if none available.

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

The **AbstractView** and **DocumentView** interfaces are not supported.

## 2.2 Clarifications

The following subsection identifies clarifications to recommendations made by [\[DOM Level 2 - Views\]](#).

### 2.2.1 [DOM Level 2 - Views] Section 1.1, Introduction

C0001:

The specification states:

The interfaces found within this section are not mandatory. A DOM application may use the `hasFeature(feature, version)` method of the `DOMImplementation` interface with parameter values "Views" and "2.0" (respectively) to determine whether or not this module is supported by the implementation.

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

The **hasFeature** method of the **DOMImplementation** interface returns `false` for the "Views" module and the version strings "1.0" and "2.0."



## **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.

## 4 Index

### C

[Change tracking](#) 10

### G

[Glossary](#) 4

### I

[Informative references](#) 4

[Interfaces](#) 7

Introduction ([section 1](#) 4, [section 2.1.1](#) 7, [section 2.2.1](#) 8)

### N

[Normative references](#) 4

### R

References

[informative](#) 4

[normative](#) 4

### T

[Tracking changes](#) 10