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DOMParser

DOMParser can be used to parse strings and streams of XML text. It can't be used to parse HTML "tag soup" (see [Parsing HTML from chrome](#) if you need that).

DOMParser is available to web pages, but it's not part of any standard and is not supported by some browsers (but see [this workaround](#)). Note, that if you want to parse XML received from the server, you can just use the responseXML property of [XMLHttpRequest](#).

The documentation is in the IDL: [content/base/public/nsIDOMParser.idl](#).

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Creating a DOMParser

To create a DOMParser object from a web page or a chrome script running in a window, simply use `new DOMParser()`. When you create a DOMParser from a privileged script, you can pass parameters to the constructor, more on that below.

To create a DOMParser when the constructor is not available (e.g., from a JS XPCOM component, a JS module, or an xpcshell test), use:

```
view plain print ?
01. var parser = Components.classes["@mozilla.org/xmlextras/domparser;1"]
02.     .createInstance(Components.interfaces.nsIDOMParser);
03. // optionally, call parser.init(principal, documentURI, baseURI);
```

Parsing XML

Once you have created a parser object, parsing is easy:

```
view plain print ?
01. var parser = new DOMParser();
02. var doc = parser.parseFromString(aStr, "text/xml");
```

Note that if the parsing process failed, `DOMParser` currently does not throw an exception, but instead returns an error document (see [bug 45566](#)):

```
view plain print ?
01. <parsererror xmlns="http://www.mozilla.org/newlayout/xml/parsererror.xml">
02. (error description)
03. <sourcetext>(a snippet of the source XML)</sourcetext>
04. </parsererror>
```

The parsing errors are also reported to the [Error Console](#), with the document URI (see below) as the source of the error.

Principals, document and base URI

Note: This section covers changes introduced to `DOMParser` in Gecko 1.9.

To create a document, the parser needs to specify a principal (see [Security check basics](#)), a base URI (see [document.baseURIObject](#)), and a [documentURI](#).

These values are automatically determined as defined below, but if you work with `DOMParser` from privileged code, you can override the defaults by providing arguments to the `DOMParser` constructor or calling `parser.init()`. Usually you don't need to do that. If you come across a situation when these matter, feel free to ask questions in [mozilla.dev.tech.dom](#) and update this documentation to mention these cases.

- When a `DOMParser` is instantiated by calling `new DOMParser()`, it inherits the calling code's principal (except that for chrome callers the principal is set to the null principal) and the `documentURI` and `baseURI` of the window the constructor came from.
- If the caller has `UniversalXPConnect` privileges, it can pass parameters to `new DOMParser()`. If fewer than three parameters are passed, the remaining parameters will default to `null`.
 - The first parameter is the principal to use; this overrides the default principal normally inherited.
 - The second parameter is the `documentURI` to use.
 - The third parameter is the `baseURI` to use.
- If you instantiate a `DOMParser` by calling `createInstance()`, and you don't call the `DOMParser`'s `init()` method, attempting to initiate a parsing operation will automatically call `init()` on the `DOMParser` with a null principal and null pointers for `documentURI` and `baseURI`.

Cases where these values matter:

- If you don't specify the document URI by calling `init()` after creating the parser via `createInstance()` the created documents will use a `moz-nullprincipal:{<guid>}` URI, which will show in the Error Console in parsing errors, in particular.
- Supposedly, if you want to create objects that some particular set of unprivileged code will be able to access (see discussion in [bug 565480](#)).

Examples

Within the context of a window:

WebTrends

```
view plain print ?
01.  var parser = new DOMParser();
02.  var doc = parser.parseFromString(aStr, "text/xml");
```

Outside of a window (e.g., a JS XPCOM component, a JS module, or an xpcshell test):

```
view plain print ?
01.  var parser = Components.classes["@mozilla.org/xmlextras/domparser;1"]
02.      .createInstance(Components.interfaces.nsIDOMParser);
03.  var doc = parser.parseFromString(aStr, "text/xml");
```

Using Components.Constructor():

```
view plain print ?
01.  const DOMParser = new Components.Constructor("@mozilla.org/xmlextras/domparser;1", "nsIDOMParser");
02.  var parser = new DOMParser();
03.  parser.init(principal, documentURI, baseURI);
04.  var doc = parser.parseFromString(aStr, "text/xml");
```

See also

- [Parsing and serializing XML](#)
- [XMLHttpRequest](#)
- [XMLSerializer](#)
- [Parsing HTML from chrome](#)

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