

chrome.devtools.inspectedWindow

Description:	Use the <code>chrome.devtools.inspectedWindow</code> API to interact with the inspected window: obtain the tab ID for the inspected page, evaluate the code in the context of the inspected window, reload the page, or obtain the list of resources within the page.
Availability:	Since Chrome 31.

Use `chrome.devtools.inspectedWindow` to interact with the inspected window: obtain the tab ID for the inspected page, evaluate the code in the context of inspected window, reload the page, or obtain the list of resources within the page.

See [DevTools APIs summary](#) for general introduction to using Developer Tools APIs.

Overview

The `tabId` property provides the tab identifier that you can use with the `chrome.tabs.*` API calls. However, please note that `chrome.tabs.*` API is not exposed to the Developer Tools extension pages due to security considerations — you will need to pass the tab ID to the background page and invoke the `chrome.tabs.*` API functions from there.

The `reload` method may be used to reload the inspected page. Additionally, the caller can specify an override for the user agent string, a script that will be injected early upon page load, or an option to force reload of cached resources.

Use the `getResources` call and the `onResourceContent` event to obtain the list of resources (documents, stylesheets, scripts, images etc) within the inspected page. The `getContent` and `setContent` methods of the `Resource` class along with the `onResourceContentCommitted` event may be used to support modification of the resource content, for example, by an external editor.

Executing Code in the Inspected Window

The `eval` method provides the ability for extensions to execute JavaScript code in the context of the inspected page. This method is powerful when used in the right context and dangerous when used inappropriately. Use the `tabs.executeScript` method unless you need the specific functionality that the `eval` method provides.

Here are the main differences between the `eval` and `tabs.executeScript` methods:

- The `eval` method does not use an isolated world for the code being evaluated, so the JavaScript state of the inspected window is accessible to the code. Use this method when access to the JavaScript state of the inspected page is required.
- The execution context of the code being evaluated includes the [Developer Tools console API](#). For example, the code can use `inspect` and `$0`.
- The evaluated code may return a value that is passed to the extension callback. The returned value has to be a valid JSON object (it may contain only primitive JavaScript types and acyclic references to other JSON objects). *Please observe extra care while processing the data received from the inspected page — the execution context is essentially controlled by the inspected page; a malicious page may affect the data being returned to the extension.*

Important: Due to the security considerations explained above, the `tabs.executeScript` method is the preferred way for an extension to access DOM data of the inspected page in cases where the access to JavaScript state of the inspected page is not required.

Note that a page can include multiple different JavaScript execution contexts. Each frame has its own context, plus an additional context for each extension that has content scripts running in that frame.

By default, the `eval` method executes in the context of the main frame of the inspected page.

The `eval` method takes an optional second argument that you can use to specify the context in which the code is evaluated. This *options* object can contain one or more of the following keys:

frameURL

Use to specify a frame other than the inspected page's main frame.

contextSecurityOrigin

Use to select a context within the specified frame according to its **web origin**.

useContentScriptContext

If true, execute the script in the same context as the extensions's content scripts. (Equivalent to specifying the extensions's own web origin as the context security origin.) This can be used to exchange data with the content script.

Examples

The following code checks for the version of jQuery used by the inspected page:

```
chrome.devtools.inspectedWindow.eval(  
  "jQuery.fn.jquery",  
  function(result, isException) {  
    if (isException)  
      console.log("the page is not using jQuery");  
    else  
      console.log("The page is using jQuery v" + result);  
  }  
);
```

You can find more examples that use Developer Tools APIs in [Samples](#).

Summary

Types
Resource
Properties
tabId
Methods
eval – <code>chrome.devtools.inspectedWindow.eval(string expression, object options, function callback)</code>
reload – <code>chrome.devtools.inspectedWindow.reload(object reloadOptions)</code>
getResources – <code>chrome.devtools.inspectedWindow.getResources(function callback)</code>
Events

onResourceAdded

onResourceContentCommitted

Types

Resource

A resource within the inspected page, such as a document, a script, or an image.

properties

string

url

The URL of the resource.

methods

getContent

`Resource.getContent(function callback)`

Gets the content of the resource.

Parameters

function	callback	A function that receives resource content when the request completes. The <i>callback</i> parameter should be a function that looks like this: <code>function(string content, string encoding) {...};</code>
string	content	Content of the resource (potentially encoded).
string	encoding	Empty if the content is not encoded, encoding name otherwise. Currently, only base64 is supported.

setContent

`Resource.setContent(string content, boolean commit, function callback)`

Sets the content of the resource.

Parameters

string	content	New content of the resource. Only resources with the text type are currently supported.
boolean	commit	True if the user has finished editing the resource, and the new content of the resource should be persisted; false if this is a minor change sent in progress of the user editing the resource.
function	(optional) callback	A function called upon request completion. If you specify the <i>callback</i> parameter, it should be a function that looks like this: <code>function(object error) {...};</code>

		object	(optional) error	Set to undefined if the resource content was set successfully; describes error otherwise.
--	--	--------	---------------------	---

Properties

integer	<code>chrome.devtools.inspectedWindow.tabId</code>	The ID of the tab being inspected. This ID may be used with <code>chrome.tabs.*</code> API.
---------	--	---

Methods

eval

`chrome.devtools.inspectedWindow.eval(string expression, object options, function callback)`

Evaluates a JavaScript expression in the context of the main frame of the inspected page. The expression must evaluate to a JSON-compliant object, otherwise an exception is thrown. The eval function can report either a DevTools-side error or a JavaScript exception that occurs during evaluation. In either case, the `result` parameter of the callback is `undefined`. In the case of a DevTools-side error, the `isException` parameter is non-null and has `isError` set to true and `code` set to an error code. In the case of a JavaScript error, `isException` is set to true and `value` is set to the string value of thrown object.

Parameters				
string	expression	An expression to evaluate.		
object	(optional) options	Since Chrome 38.		
		The options parameter can contain one or more options.		
		string	(optional) frameURL	If specified, the expression is evaluated on the iframe whose URL matches the one specified. By default, the expression is evaluated in the top frame of the inspected page.
		boolean	(optional) useContentScriptContext	Evaluate the expression in the context of the content script of the calling extension, provided that the content script is already injected into the inspected page. If not, the expression is not evaluated and the callback is invoked with the exception parameter set to an object that has the <code>isError</code> field set to true and the <code>code</code> field set to <code>E_NOTFOUND</code> .
string	(optional) contextSecurityOrigin	Evaluate the expression in the context of a content script of an extension that matches the specified origin. If given, contextSecurityOrigin overrides the 'true' setting on userContentScriptContext.		

function	(optional) callback	<p>A function called when evaluation completes.</p> <p>If you specify the <i>callback</i> parameter, it should be a function that looks like this:</p> <pre>function(object result, object exceptionInfo) {...};</pre> <table><tr><td>object</td><td>result</td><td colspan="2">The result of evaluation.</td></tr><tr><td>object</td><td>exceptionInfo</td><td colspan="2">An object providing details if an exception occurred while evaluating the expression.<table><tr><td>boolean</td><td>isError</td><td>Set if the error occurred on the DevTools side before the expression is evaluated.</td></tr><tr><td>string</td><td>code</td><td>Set if the error occurred on the DevTools side before the expression is evaluated.</td></tr><tr><td>string</td><td>description</td><td>Set if the error occurred on the DevTools side before the expression is evaluated.</td></tr><tr><td>array of any</td><td>details</td><td>Set if the error occurred on the DevTools side before the expression is evaluated, contains the array of the values that may be substituted into the description string to provide more information about the cause of the error.</td></tr><tr><td>boolean</td><td>isException</td><td>Set if the evaluated code produces an unhandled exception.</td></tr><tr><td>string</td><td>value</td><td>Set if the evaluated code produces an unhandled exception.</td></tr></table></td></tr></table>			object	result	The result of evaluation.		object	exceptionInfo	An object providing details if an exception occurred while evaluating the expression. <table><tr><td>boolean</td><td>isError</td><td>Set if the error occurred on the DevTools side before the expression is evaluated.</td></tr><tr><td>string</td><td>code</td><td>Set if the error occurred on the DevTools side before the expression is evaluated.</td></tr><tr><td>string</td><td>description</td><td>Set if the error occurred on the DevTools side before the expression is evaluated.</td></tr><tr><td>array of any</td><td>details</td><td>Set if the error occurred on the DevTools side before the expression is evaluated, contains the array of the values that may be substituted into the description string to provide more information about the cause of the error.</td></tr><tr><td>boolean</td><td>isException</td><td>Set if the evaluated code produces an unhandled exception.</td></tr><tr><td>string</td><td>value</td><td>Set if the evaluated code produces an unhandled exception.</td></tr></table>		boolean	isError	Set if the error occurred on the DevTools side before the expression is evaluated.	string	code	Set if the error occurred on the DevTools side before the expression is evaluated.	string	description	Set if the error occurred on the DevTools side before the expression is evaluated.	array of any	details	Set if the error occurred on the DevTools side before the expression is evaluated, contains the array of the values that may be substituted into the description string to provide more information about the cause of the error.	boolean	isException	Set if the evaluated code produces an unhandled exception.	string	value	Set if the evaluated code produces an unhandled exception.
object	result	The result of evaluation.																												
object	exceptionInfo	An object providing details if an exception occurred while evaluating the expression. <table><tr><td>boolean</td><td>isError</td><td>Set if the error occurred on the DevTools side before the expression is evaluated.</td></tr><tr><td>string</td><td>code</td><td>Set if the error occurred on the DevTools side before the expression is evaluated.</td></tr><tr><td>string</td><td>description</td><td>Set if the error occurred on the DevTools side before the expression is evaluated.</td></tr><tr><td>array of any</td><td>details</td><td>Set if the error occurred on the DevTools side before the expression is evaluated, contains the array of the values that may be substituted into the description string to provide more information about the cause of the error.</td></tr><tr><td>boolean</td><td>isException</td><td>Set if the evaluated code produces an unhandled exception.</td></tr><tr><td>string</td><td>value</td><td>Set if the evaluated code produces an unhandled exception.</td></tr></table>		boolean	isError	Set if the error occurred on the DevTools side before the expression is evaluated.	string	code	Set if the error occurred on the DevTools side before the expression is evaluated.	string	description	Set if the error occurred on the DevTools side before the expression is evaluated.	array of any	details	Set if the error occurred on the DevTools side before the expression is evaluated, contains the array of the values that may be substituted into the description string to provide more information about the cause of the error.	boolean	isException	Set if the evaluated code produces an unhandled exception.	string	value	Set if the evaluated code produces an unhandled exception.									
boolean	isError	Set if the error occurred on the DevTools side before the expression is evaluated.																												
string	code	Set if the error occurred on the DevTools side before the expression is evaluated.																												
string	description	Set if the error occurred on the DevTools side before the expression is evaluated.																												
array of any	details	Set if the error occurred on the DevTools side before the expression is evaluated, contains the array of the values that may be substituted into the description string to provide more information about the cause of the error.																												
boolean	isException	Set if the evaluated code produces an unhandled exception.																												
string	value	Set if the evaluated code produces an unhandled exception.																												

reload

chrome.devtools.inspectedWindow.reload(object reloadOptions)

Reloads the inspected page.

Parameters				
object	(optional) reloadOptions	boolean	(optional) ignoreCache	When true, the loader will bypass the cache for all inspected page resources loaded before the load event is fired. The effect is similar to pressing Ctrl+Shift+R in the inspected window or within the Developer Tools window.
		string	(optional) userAgent	If specified, the string will override the value of the User-Agent HTTP header that's sent while loading the resources of the inspected page. The string will also override the value of the navigator.userAgent property that's returned to any scripts that are

				running within the inspected page.
		string	(optional) injectedScript	If specified, the script will be injected into every frame of the inspected page immediately upon load, before any of the frame's scripts. The script will not be injected after subsequent reloads—for example, if the user presses Ctrl+R.

getResources

```
chrome.devtools.inspectedWindow.getResources(function callback)
```

Retrieves the list of resources from the inspected page.

Parameters					
function	callback	<p>A function that receives the list of resources when the request completes.</p> <p>The <i>callback</i> parameter should be a function that looks like this:</p> <pre>function(array of Resource resources) {...};</pre> <table> <tr> <td>array of Resource</td><td>resources</td><td>The resources within the page.</td></tr> </table>	array of Resource	resources	The resources within the page.
array of Resource	resources	The resources within the page.			

Events

onResourceAdded

Fired when a new resource is added to the inspected page.

addListener

```
chrome.devtools.inspectedWindow.onResourceAdded.addListener(function callback)
```

Parameters					
function	callback	<p>The <i>callback</i> parameter should be a function that looks like this:</p> <pre>function(Resource resource) {...};</pre> <table> <tr> <td>Resource</td><td>resource</td><td></td></tr> </table>	Resource	resource	
Resource	resource				

onResourceContentCommitted

Fired when a new revision of the resource is committed (e.g. user saves an edited version of the resource in the Developer Tools).

addListener

```
chrome.devtools.inspectedWindow.onResourceContentCommitted.addListener(function callback)
```

Parameters		
------------	--	--

function	callback	<p>The <i>callback</i> parameter should be a function that looks like this:</p> <pre>function(Resource resource, string content) {...};</pre> <table> <tr> <td>Resource</td><td>resource</td><td></td></tr> <tr> <td>string</td><td>content</td><td>New content of the resource.</td></tr> </table>	Resource	resource		string	content	New content of the resource.
Resource	resource							
string	content	New content of the resource.						