

S576: Separate content process for file:// URLs [EngQA]

1. Functional

C20002: Open a local file from the File menu

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox, navigate to about:config and set the preference "dom.ipc.processCount.file" = 2
2. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
3. Have at least one local file saved on your PC (for e.g you can save the about: page)

Steps

Step	Expected Result
1 Launch Firefox	Firefox is properly opened
2 Open a new tab, go to File Menu, click on Open File -> select any local file -> Open	The Open File window is opened The selection of a local file is allowed The local File is properly opened
3 Check the Task Manager	A new local process is opened along with the local file from the previous step
4 Close the local file opened in step 3 (check the task manager again)	The local file along with its corresponding local process are closed

C20003: Open a local file using the keyboard shortcut Ctrl+O/Cmd+O

Type Other	Priority Medium	Estimate None	References None
Automatable No			

Preconditions

1. Open Firefox, navigate to about:config and set the preference "dom.ipc.processCount.file" = 2
2. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
3. Have at least one local file saved on your PC (for e.g you can save the about: page)

Steps

Step	Expected Result
1 Launch Firefox	Firefox is properly opened
2 Open a new tab, hit the Ctrl+O keys (CMD+O on Mac OS X) to open the Open File window	The Open File windows is properly opened
3 Select any local file and click on the Open button (look also at the task manager/system monitor/Activity monitor)	The local file is opened. A new file content process is opened in the task manager/system monitor/Activity monitor.
4 Hover your mouse over the tab where the local file is opened and look at the process number	The process from the tab (should look like - "e10s XXXXX") is the same with the local process that was opened in the previous step in the task manager/system monitor/Activity monitor.
5 Close the local file	The local file along with its corresponding local process are closed

C20004: Open a local file by drag and drop

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox, navigate to about:config and set the preference "dom.ipc.processCount.file" = 2
2. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
3. Have at least one local file saved on your PC (for e.g you can save the about: page)

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Drag a local file from your PC and drop it into the Firefox tabs bar (look also at the task manager/system monitor/Activity monitor)	The local file is successfully opened in a new tab A new file content process is opened in the task manager (the PID number is the same in the task manager as is in the tab with the opened local file)
3 Open a new Firefox window	A new window is opened
4 Drag the tab with the local file from step 2 and drop it into the new window from step 3 (look also at the task manager/system monitor/Activity monitor)	The drag and drop action is successfully done The file content process remains the same
5 In a new tab, open another local file (look also at the task manager/system monitor/Activity monitor)	The local file is properly opened A new file content process is opened in the task manager (the PID number is the same in the task manager as is in the tab with the opened local file)
6 Drag the newly opened tab and drop it onto the Desktop (look also at the task manager/system monitor/Activity monitor)	A new window is opened (only one tab with the local file opened) The file content process remains the same as in the previous step
7 In a new tab, open another local file of your choice	The local file is properly opened The file content process is the same with either the one from step 2 or the one from step 6
8 Close the local file from step 6 (look also at the task manager/system monitor/Activity monitor)	The local file is properly closed If the local file from step 7 has the same content process as the local file from step 2, then the content process of the local file from step 6 will be closed. If the local file from step 7 has the same content process as the local file from step 6, then no content process will be closed

C20005: Open a local file from an external application

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox, navigate to about:config and set the preference "dom.ipc.processCount.file" = 2
2. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
3. Save several types of local files (e.g: HTML, png, txt, pdf, WebM, etc)
4. Set Firefox as a default browser

Steps

Step	Expected Result
1 Launch Firefox	Firefox is successfully opened
2 Open some local files from an external application (skype, chat, document). Look also at the task manager/system monitor/Activity monitor	The local files are properly opened in new tabs On Nightly - for the first 2 local files new content processes will be opened. After that, the 2 opened processes will be divided between all the opened local files randomly.
3 Close all the local files one by one. (look also at the task manager/system monitor/Activity monitor)	The 2 opened file content processes are properly closed.

C20006: Open a local file in a new tab from a local file

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

- Open Firefox, navigate to about:config and set the preference "dom.ipc.processCount.file" = 2
- Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
- Create a local HTML name test1 that contains a link to another local HTML. You can use this as an example (don't forget to add the path of the local file from point "b" here: ` Click here `)

1st html file

```
<!DOCTYPE html>
<html>
<title>Test1</title>
<body>
<a href="data:xxxx" target="_blank"> Click here </a>
</body>
</html>
```

*Note: data:xxxx is the path of the local file

2st html file

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Test2</title>
<link rel="stylesheet" href="chrome://global/skin/about.css" type="text/css"/>
</head>

<body dir="&locale.dir;">
<div id="aboutLogoContainer">
<a id="vendorURL">

<p id="version">&about.version;</p>
</a>
</div>

<ul id="aboutPageList">
<li>&about.credits.beforeLink;<a href="about:credits">&about.credits.linkTitle;</a>&about.credits.afterLink;</li>
<li>&about.license.beforeTheLink;<a href="about:license">&about.license.linkTitle;</a>&about.license.afterTheLink;</li>
<li hidden="true">&about.relnotes.beforeTheLink;<a id="releaseNotesURL">&about.relnotes.linkTitle;
</a>&about.relnotes.afterTheLink;</li>
<li>&about.buildconfig.beforeTheLink;<a href="about:buildconfig">&about.buildconfig.linkTitle;</a>&about.buildconfig.afterTheLink;
</li>
<li id="buildID">&about.buildIdentifier;</li>
<script type="application/javascript" src="chrome://global/content/about.js"/>
</ul>

</body>
</html>
```

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Open a new tab and load the 1st html local file (look also at the task manager/system monitor/Activity monitor)	1st local HTML file is properly opened A new file content process is opened in the task manager

(the PID number from task manager is the same as the number that is displayed when hovering the mouse over the containing tab)

- | | | |
|----------|--|---|
| <p>3</p> | <p>Left click on the "Click here" link (look also at the task manager/system monitor/Activity monitor)</p> | <p>Open 2nd local HTML file is properly opened in a new tab Nightly - the local file is opened either using the same content process as the one from step 2 either a new one. (2 content processes are allocated for the local files)</p> |
| <p>4</p> | <p>Go back to the local file from step 2 and middle click on the "Click here" link (look also at the task manager/system monitor/Activity monitor)</p> | <p>2nd local HTML file is properly opened in a new tab Nightly - the local file is opened either using the same content process as the one from step 2 either a new one. (2 content processes are allocated for the local files)</p> |

C20007: Open a local file in a new window from a local file

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox, navigate to about:config and set the preference "dom.ipc.processCount.file" = 2
2. Use local file Test1 from the previous test case named "Open a local file in a new tab from a local file".
3. Open the Task manager (Windows)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the detailed processes

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Go to about:preferences -> General -> uncheck the "Open new windows in a new tab instead" option	Preference is unchecked
3 In a new tab open the Test1 local file (check also the task manager/system monitor/Activity monitor)	1st local html file is properly opened A new file content process is opened (the PID number from task manager is the same as the number displayed when hovering the mouse over the containing tab).
4 Click on the "Click here link"	1st local html file is opened in a new window. The local file is opened either using the same content process as the one from step 2 either a new one. (2 content processes are allocated for the local files)
5 Close Test2 tab (check also the task manager/system monitor/Activity monitor)	The last opened window is properly closed If the content process ID was the same as in step 3, then no content process will be closed BUT if a new content process is opened in step 4, then that content process will be closed

C20014: Open a local file with multiple iframes

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox, navigate to about:config and set the preference "dom.ipc.processCount.file" = 2
2. Create a local html file that contains the following code (name it Test3):


```
<iframe src="https://people-mozilla.org/~dglastonbury/block-playback/autoplay-test-1.html" width=300 height=300></iframe>
<iframe src="https://people-mozilla.org/~dglastonbury/block-playback/autoplay-test-1.html" width=300 height=300></iframe>
<iframe src="https://people-mozilla.org/~dglastonbury/block-playback/autoplay-test-1.html" width=300 height=300></iframe>
<iframe src="https://people-mozilla.org/~dglastonbury/block-playback/autoplay-test-1.html" width=300 height=300></iframe>
<iframe src="https://people-mozilla.org/~dglastonbury/block-playback/autoplay-test-1.html" width=300 height=300></iframe>
<iframe src="https://people-mozilla.org/~dglastonbury/block-playback/autoplay-test-1.html" width=300 height=300></iframe>
<iframe src="https://people-mozilla.org/~dglastonbury/block-playback/autoplay-test-1.html" width=300 height=300></iframe>
<iframe src="https://people-mozilla.org/~dglastonbury/block-playback/autoplay-test-1.html" width=300 height=300></iframe>
<iframe src="https://people-mozilla.org/~dglastonbury/block-playback/autoplay-test-1.html" width=300 height=300></iframe>
<iframe src="https://people-mozilla.org/~dglastonbury/block-playback/autoplay-test-1.html" width=300 height=300></iframe>
```
3. Open the Task manager (Windows)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the detailed processes

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 In a new tab, open Test3 local file (check also the task manager/system monitor/Activity monitor)	Test3 local file is properly opened Only one new file content process is opened (the PID number from task manager is the same as the number displayed when hovering the mouse over the containing tab).
3 Close the Test3 tab	The tab with the local file is properly closed The file content process is also closed.

C20015: Open a local file from a http page

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox, navigate to about:config and set the preference "dom.ipc.processCount.file" = 2
2. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.

Steps

Step	Expected Result
1 Launch Firefox	Firefox is properly opened
2 Navigate to: https://jsbin.com/?html,output	Navigation is done
3 Add this to <code>Click this link </code> to the above jsbin page. * data:xxxx - file path to one of yours local files	Click this link is displayed on the right side of the jsbin page
4 In a new tab navigate to: https://addons.mozilla.org/en-US/firefox/addon/noscript/?src=ss install the NoScript add-on and restart Firefox	The NoScript add-on is installed
5 Go to about:addons -> Extensions -> NoScript -> Options -> Advanced -> Trusted -> Allow local links	
6 Go back to the jsbin page, give permissions to the page by selecting Allow All This Page on the Noscript Bar and click on "Click this link" (check also the task manager/system monitor/Activity monitor))	The local file added in step 2 is opened in a new tab A new file content process is opened in the task manager (the PID number from task manager is the same as the number that is displayed when hovering the mouse over the containing tab)
7 Close the local link tab	The local file is properly closed The file content process opened in step 6 is closed

C20016: Open local files in Private window

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox, navigate to about:config and set the preference "dom.ipc.processCount.file" = 2
2. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
3. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 In the URL bar, click on Open menu -> New Private Window	A new Private Window is opened
3 In a new tab - open a local file of your choice (PNG, HTML, WebM, .txt, PDF, etc) (look also at the task manager/system monitor/Activity monitor)	The local file is properly opened A new file content process is opened in the task manager (the PID number from task manager is the same as the number that is displayed when hovering the mouse over the containing tab)
4 In a new tab - open another local file of your choice (PNG, HTML, WebM, .txt, PDF, etc) (look also at the task manager/system monitor/Activity monitor)	The local file is properly opened Nightly - A new file content process is opened in the task manager (the PID number from task manager is the same as the number that is displayed when hovering the mouse over the containing tab)
5 In a new tab - open another local file of your choice (PNG, HTML, WebM, .txt, PDF, etc) (look also at the task manager/system monitor/Activity monitor)	The local file is properly opened No other file content process is opened. The local file has the same process as one of the 2 previous opened processes.
6 Close all the local files opened in steps 3, 4 and 5 (look also at the task manager/system monitor/Activity monitor)	The 2 content processes opened for the local files are closed
7 In a new tab - open a local file from where you can open another local file (Test1 HTML local file)	Test1 local HTML file is properly opened A new file content process is opened in the task manager (the PID number from task manager is the same as the number that is displayed when hovering the mouse over the containing tab)
8 Click on the "Click here" link (look also at the task manager/system monitor/Activity monitor)	Test2 local HTML file is properly opened in a new tab Nightly - the local file might be opened using the same content process as in step 7 or a new one (Note: not more than 2 content processes are allocated for local files)
9 Go to about:preferences -> General -> uncheck the "Open new windows in a new tab instead" option	Preference is unchecked
10 Go back to Test1 HTML local file opened in step 7	

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Click on the "Click here" link (look also at the task manager/system monitor/Activity monitor)

Test2 local file is opened in a new window.
The local file might be opened using the same content process as in step 7 or a new one (Note: not more than 2 content processes are allocated for local files)

C30642: Open a local file on the default settings

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
2. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).

Steps

Step	Expected Result
1 Launch Firefox with a new profile (dom.ipc.processCount.file preference is set to 1)	Firefox is opened (only one process content is allocated for the local files)
2 Open a local file by going to File Menu, click on Open File -> select any local file -> Open (look also at the task manager/system monitor/Activity monitor)	The Open File window is opened. The selection of a local file is allowed. The local File is properly opened A new file content process is opened in the task manager/system monitor/Activity monitor.
3 In a new tab, open a local file by hitting the Ctrl+O keys (CMD+O on Mac OS X), selecting the file and choosing the Open button	The Open file is opened The local file is properly selected and opened The file content process is the same as in step 2
4 Open a new local file by dragging and dropping it in the tabs bar	The local file is properly opened in a new tab after being dragged and dropped in the tabs bar The file content process is the same as in steps 2 and 3
5 Open a new tab and load the local HTML file named Test1 (created at a previous test case)	Test1 local file is properly opened The file content process is the same as in step 2, 3 and 4
6 Click on the Click here link from step 5	Test2 local file is properly opened The file content process is the same as in step 2, 3, 4 and 5
7 In new tabs, open another 10 local files of your choice	All the local files are opened All the local files use the same local process as in steps: 2,3,4,5,6

C20017: Open multiple local files in the same Firefox session

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
2. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).

Steps

Step	Expected Result
1 Launch Firefox with a NEW profile (check the value of the preference "dom.ipc.processCount" in about:config)	Firefox is launched The value of the preference "dom.ipc.processCount" tells you how many content processes are allocated for the websites.
2 In the 2 already opened tabs, navigate to 2 websites of your choice (look also at the task manager/system monitor/Activity monitor)	The navigation is allowed The content processes remain as before for each website
3 In new tabs, navigate to 2 websites of your choice	The navigation is allowed 2 new content processes are opened Note: in step 1, the value of the preference "dom.ipc.processCount" is set to 4 by default. The number of opened content processes is influenced by the value of the preference "dom.ipc.processCount".
4 Navigate to about:config and add an integer preference called "dom.ipc.processCount.file" and set the value to 6	Preference is added The value of the preference "dom.ipc.processCount.file" tells you how many content processes are allocated for the local files.
5 In a new tab, open a local file of your choice (PNG, HTML, WebM, .txt, PDF, etc) (look also at the task manager/system monitor/Activity monitor)	The local file is properly opened A new file content process is opened in the task manager (the PID number from task manager is the same as the number that is displayed when hovering the mouse over the containing tab)
6 In a new tab, open another local file of your choice (PNG, HTML, WebM, .txt, PDF, etc) (look also at the task manager/system monitor/Activity monitor)	The local file is properly opened Nightly - A new file content process is opened in the task manager (the PID number from task manager is the same as the number that is displayed when hovering the mouse over the containing tab)
7 In a new tab, open another local file of your choice (PNG, HTML, WebM, .txt, PDF, etc) (look also at the task manager/system monitor/Activity monitor)	The local file is properly opened Nightly - A new file content process is opened in the task manager (the PID number from task manager is the same as the number that is displayed when hovering the mouse over the containing tab)
8 Open 3 more local files of your choice (after each opened local file check the task manager/system monitor/Activity monitor)	The local files are opened. Each local file is opened in a new content process

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Open 3 more local files of your choice (after each opened local file check the task manager/system monitor/Activity monitor)

The local files are opened

No other file content process is opened. Each local file is randomly opened in one of the previous content processes (where local files were opened, not the websites from step 2).

C21685: [Windows only] Open local files when toggling preference "browser.tabs.remote.separateFileUriProcess"

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).
2. Install the Process Explorer tool: <https://technet.microsoft.com/en-us/sysinternals/procexpexplorer.aspx>

Steps

Step	Expected Result
1 Launch Firefox with a new profile (write down the content processes of the 2 tabs)	Firefox is opened
2 In the first tab - navigate to a website of your choice	Navigation is allowed The content process remains the same as in step 1
3 In the second tab - open a local file	The local file is opened A new file content process replaces one of the content processes from step 1 (the ID of the process is different when compared with the ID of the process from step 1)
4 Open the Process Explorer tool, look for the processes from steps 2 and 3 -> right click on each -> Properties and compare the 2 Groups IDs.	There are differences between the web content process and the local content process - for example, on the web content process, you will see some Restricted flags.
5 Navigate to about:config and set preference "browser.tabs.remote.separateFileUriProcess" to false	Changing the preference's value is allowed
6 Restart Firefox (Shift+F2/Cmd+F2)	Firefox is restarted
7 Open a new website and a new local file and using the Process Explorer tool compare the Properties tabs	There are no differences between the 2 properties tabs
8 Navigate to about:config again and set the preference "browser.tabs.remote.separateFileUriProcess" back to true	Changing the preference's value is allowed
9 Open another website and another local file and using the Process Explorer tool compare the Properties tabs	There are differences between the web content process and the local content process - for example, on the web content process, you will see some Restricted flags.

C26101: [Ubuntu/Mac OS X only]Open local files when toggling preference "browser.tabs.remote.separateFileUriProcess"

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. In about:config, look at the value of the preference dom.ipc.processCount - this value tells you how many processes are opened for the websites.
2. In about:config, look at the value of the preference dom.ipc.processCount.file - this value tells you how many processes are opened for the local files

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 In new tabs, open 7 websites of your choice (look also at System monitor/Activity monitor)	All the websites are properly opened All the websites share one or multiple content processes (the number of the content processes opened is given by the value of preference dom.ipc.processCount)
3 In new tabs, open 7 local files of your choice (look also at System monitor/Activity monitor)	All the local files are properly opened All the local files share one or multiple content processes (the number of the content processes opened is given by the value of preference dom.ipc.processCount.file). For e.g, if the value is one, only one content processes is opened for all the local files
4 Navigate to about:config and set preference "browser.tabs.remote.separateFileUriProcess" to false	Changing the preference's value is allowed
5 Close Firefox	Firefox is closed
6 Open Firefox	Firefox is opened
7 In new tabs, open 7 websites of your choice (look also at System monitor/Activity monitor)	All the websites are properly opened All the websites share one or multiple content processes (the number of the content processes opened is given by the value of preference dom.ipc.processCount)
8 In new tabs, open 7 local files of your choice (look also at System monitor/Activity monitor)	All the local files are properly opened No other new processes are opened - the processes from the previous step are used
9 Navigate to about:config and set preference "browser.tabs.remote.separateFileUriProcess" to true	Changing the preference's value is allowed
10 Restart Firefox	
11 Repeat steps 2 and 3	The expected results are the same as in steps 2 and 3

C29121: Submit form to http(s) URL using POST method from a local HTML page

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. To be run after Bug 1351358 is fixed.
2. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
3. Create a local HTML file that contains:

```
<!DOCTYPE html>
<html>
<head>
<title>PostFormTest</title>
<meta charset="UTF-8">
</head>
<body>
<form method="post" action=" http://software.hixie.ch/utilities/cgi/test-tools/echo" enctype="multipart/form-data">
<input type="file" name="test">
<button type="submit">Submit</button>
</form>
</body>
</html>
```

Steps

Step	Expected Result
1 Launch Firefox with a new profile	Firefox is opened.
2 Open a new tab and load the PostFormTest local HTML page (check also the content process ID)	The local file is properly opened A new local content process is opened
3 Click on the Browse button, select a local file and click Submit	You are taken to http://software.hixie.ch/utilities/cgi/test-tools/echo The content process remains the same as in step 2. Under the Content section, on the right side, you will see the name of the uploaded file and it should look something like:

Content

```
00000000 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d
2d |-----|
00000010 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d 33 31
38 |-----318|
00000020 39 39 31 35 36 37 39 33 31 35 39 36 0d 0a 43
6f |991567931596..Co|
00000030 6e 74 65 6e 74 2d 44 69 73 70 6f 73 69 74 69
6f |ntent-Dispositio|
00000040 6e 3a 20 66 6f 72 6d 2d 64 61 74 61 3b 20 6e
61 |n: form-data; na|
00000050 6d 65 3d 22 74 65 73 74 22 3b 20 66 69 6c 65
6e |me="test"; filen|
00000060 61 6d 65 3d 22 4d 6f 7a 69 6c 6c 61 2d 6c 6f 67
|ame="Mozilla-log|
00000070 6f 2e 6a 70 67 22 0d 0a 43 6f 6e 74 65 6e 74 2d
|o.jpg"..Content-|
00000080 54 79 70 65 3a 20 69 6d 61 67 65 2f 6a 70 65
67 |Type: image/jpeg|
```

```
00000090 0d 0a 0d 0a ff d8 ff e0 00 10 4a 46 49 46 00 01  
|.....JFIF.|  
000000a0 01 00 00 01 00 01 00 00 ff db 00 43 00 04 03  
03 |.....C....|  
000000b0
```

C39786: Open http(s) content linked from file:// URI

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
2. Create a local HTML file that contains a http page and and https page linked to the local file. You can take the following local html as an example:

```
<!DOCTYPE html>
<html>
<title>HTTP(S)Test</title>
<body>
<a href="file:///C:/Users/svuser/Desktop/local/about.html" target="_blank"> Local File </a>
<br>
<a href="https://www.youtube.com/watch?v=OIH1RCs96JA" target="_blank"> HTTPS page </a>
<br>
<a href="http://edition.cnn.com/" target="_blank"> HTTP page </a>
</body>
</html>
```

Steps

Step	Expected Result
1 Launch Firefox with a new profile	Firefox is opened.
2 Open a new tab and load the local HTML named HTTP(S) Test	The local file is properly opened A new local content process is opened
3 In the local HTTP(S) Test, LEFT click on the Local File link	The local file is properly opened in a new tab The local file is opened in the same content process as in step 2
4 In the local HTTP(S) Test, LEFT click on the HTTP page	HTTP page is properly opened in a new tab The page is opened in the same content process as in step 2
5 In the local HTTP(S) Test, LEFT click on the HTTPS page	HTTPS page is properly opened in a new tab The page is opened in the same content process as in step 2
6 In the local HTTP(S) Test, RIGHT click on the HTTP page and from the context menu select Open Link in a New Tab	HTTP page is properly opened in a new tab The page is opened in a different process than the local one (from steps 2,3,4,5)
7 In the local HTTP(S) Test, RIGHT click on the HTTPS page and from the context menu select Open Link in a New Tab	HTTPS page is properly opened in a new tab The page is opened in a different process than the local one (from steps 2,3,4,5)
8 In the local HTTP(S) test, LEFT click on the HTTP page, then write a different address in the URL bar and hit enter	The HTTP page is opened in the same content process as the local file from step 2 A new page is opened in the same tab, but the content process is different than the process from step 2



In the local HTTP(S) test, LEFT click on the HTTPS page, then write a different address in the URL bar and hit enter

The HTTPS page is opened in the same content process as the local file from step 2

A new page is opened in the same tab, but the content process is different than the process from step 2

2. Navigation

C20011: Local files and http sites

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
2. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Open any local file of your choice (check also the task manager/system monitor/Activity monitor)	The local file is opened A new file content process is opened
3 In the same tab, open any website of your choice (check also the task manager/system monitor/Activity monitor)	The website is opened The file content process is replaced by a new content process (is changed)
4 Go back to the local file from step 2 by clicking on the back button (check also the task manager/system monitor/Activity monitor)	You are taken to the local file from step 2 The content process is changed again
5 Click on the Forward button (check also the task manager/system monitor/Activity monitor)	You are taken to the website opened in step 3 The content process is changed again
6 In a new tab, navigate to 2 different local files (check also the task manager/system monitor/Activity monitor)	The local files are properly displayed The file content process is the same for both the local files
7 In the same tab as in step 6, navigate to 2 different websites (check also the task manager/system monitor/Activity monitor)	Navigation is allowed for both the websites After navigating to the first website the content process is changed The content process remains the same after navigating to the second website
8 Navigate through the tab history by clicking on the back/forward button a couple of times (check also the task manager/system monitor/Activity monitor)	Navigation through the history is done respecting the initial order The content process change each time when the transition between a local file and a website is done

C20012: Local files and about pages

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
2. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).ok

Steps

Step	Expected Result
1 Open Firefox (check also the task manager/system monitor/Activity monitor)	Firefox is opened
2 In a new tab, navigate to about:support (check also the task manager/system monitor/Activity monitor)	Navigation is allowed The tab has no content process ID on hover No other content process is opened
3 In the same tab, open a local file of your choice (check also the task manager/system monitor/Activity monitor)	The local file is opened A new file content process is opened
4 In the same tab, open another local file	The local file is opened The content process remains the same
5 In the same tab, navigate to about:preferences	Navigation is allowed The tab has no content process ID on hover The process content from step 3 and 4 is closed
6 Navigate through the tab's history by clicking on the back/forward buttons	Navigation back and forward is allowed When a local file is first in focus a new content process is opened, same process is displayed when navigating right to the next local file When an about: page is in focus, the content process that was opened for the local file is closed

C20013: Local files opened in View Source Tabs

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
2. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).
3. Open Firefox, navigate to about:config and set the preference "dom.ipc.processCount.file" = 2

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 In a new tab, open an HTML local file	The HTML local file is opened A new file content process is opened
3 Open the View Page Source (Ctrl+U/Cmd+U)	A new tab with the view page source is opened The content process is the same as in step 2
4 In the same tab where the View Page Source was opened in step 3, open another HTML local file	The local file is opened The content process is the same as in step 2
5 In a new tab, open a website of your choice	The website is opened A new content process is opened
6 Open the View Page Source	A new tab with the view page source is opened The content process is the same as in step 5
7 In the same tab where the View page Source was opened, open an HTML local file	The local file is opened The content process from step 5 is changed with another (either the ID from step 2 or a new one)

C20981: Responsive Design Mode and local files

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox with a new profile.
2. Check the value of the "dom.ipc.processCount.file" preference is about:config.
3. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
4. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Navigate to a website of your choice (look also at the task manager/system monitor/Activity monitor)	Navigation is allowed.
3 Enter into Responsive Design Mode (Open Menu -> Developers -> Responsive Design Mode, and check also the ID of the content process)	The website is entered in Responsive Design Mode The ID of the content process is the same as in step 2
4 Hit the keys Ctrl+O/Cmd+O -> select a local file (look also at the task manager/system monitor/Activity monitor)	The local file is properly opened The content processes changes to a new one
5 Open a new tab and open another local file (look also at the task manager/system monitor/Activity monitor)	The local file is properly opened On Nightly - a new content process is opened - but only if the value of preference "dom.ipc.processCount.file" > than 1. If the preference "dom.ipc.processCount.file"=1 then no new content process is opened (the content process is the same as in step 4)
6 Enter Responsive Design Mode	The local file is opened in RDM The content process is the same as in step 5.

3. Restore Local Files

C20008: Restore local files by using Ctrl+Shift+T/Cmd+Shift+T

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox with a new profile
2. Check the value of the "dom.ipc.processCount.file" preference is about:config.
3. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
4. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Open 7 tabs and in each tab load local files of your choice (look also at the task manager/system monitor/Activity monitor)	All the local files are properly opened The number of the content processes allocated for the local files is dependent of the value of the preference "dom.ipc.processCount.file". For e.g if dom.ipc.processCount.file=1, all the local files will be opened in the same content process
3 Close all the tabs opened in step 2	All the local files are closed The content processes opened for the local files are also closed
4 Restore all the closed tabs by hitting the Ctrl+Shift+T on Windows, Cmd+Shift+T on Mac O SX keys	All the local files are opened One or more content processes are opened for all the local files (as many as in step 2)
5 In about:config set the preference dom.ipc.processCount.file to 7	The value of the preference is modified
6 Close and Reopen Firefox	Firefox is reopened
7 Open 7 tabs and in each tab load local files of your choice (look also at the task manager/system monitor/Activity monitor)	All the local files are properly opened 7 content processes are allocated for the opened local files.
8 Close all the tabs opened in step 7	All the local files are closed The 7 content processes opened for the local files are also closed
9 Restore all the closed tabs by hitting the Ctrl+Shift+T on Windows, Cmd+Shift+T on Mac O SX keys	All the local files are opened Seven content processes are opened for all the local files

C20009: Session restore of local files by using the Restore Previous Session

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox with a new profile
2. Check the value of the "dom.ipc.processCount.file" preference is about:config.
3. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
4. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).

Steps

Step	Expected Result
1 Launch Firefox	Firefox is properly opened
2 Open at least 5 local files of your choice	All the local files are properly opened The number of the content processes allocated for the local files is dependent of the value of the preference "dom.ipc.processCount.file". For e.g if dom.ipc.processCount.file=1, all the local files will be opened in the same content process
3 Close Firefox	Firefox is closed
4 Open Firefox again	Firefox is properly opened
5 In the lower right side - click on the Restore Previous Session button	If hovering the mouse over the tabs, only the tab that is in focus has the process ID displayed (the content is not loaded for the other tabs)
6 Focus each tab one by one	The content process is displayed on hover for all the tab One or more content processes are opened for all the local files (as many as in step 2)
7 Go to about:config and set preference "dom.ipc.processCount.file" to 3	The value of the preference is changed
8 Close and reopen Firefox	Firefox is reopened
9 Repeat step 2-6	Same results with the exception that this time - 3 content processes are allocated for the local files.

C20010: Session restore of local files after a Firefox crash

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox with a new profile
2. Check the value of the "dom.ipc.processCount.file" preference is about:config.
3. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
4. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Install the crash me now add-on and place it on the tabs bar (Open menu -> Customize -> place Crash add-on the tabs bar) https://addons.mozilla.org/en-US/firefox/addon/crash-me-now-simple/?src=ss	Add-on is installed. (The black little bomb icon is also properly placed in the tabs bar)
3 Open at least 5 new tabs and in each load any local file of your choice	All the local files are properly opened The number of the content processes allocated for the local files is dependent of the value of the preference "dom.ipc.processCount.file". For e.g if dom.ipc.processCount.file=1, all the local files will be opened in the same content process
4 Click on Crash your browser icon in the tabs bar and chose to Restart Firefox (don't forget to write "this is a test" as a comment in the crash dialog).	Firefox crashes and the Mozilla Crash Reporter dialog is displayed Firefox is Restored (if it was crashed more than once the Restore button will be also shown, clicking it - restores all the previous tabs) On hover, only the tab that is in focus has the Content process displayed.
5 Focus each tab one by one	The content processes are displayed for all the tabs on hover. One or more content processes are opened for all the local files (as many as in step 3)

C34507: Session restore of local files after a Firefox content crash

Type Other	Priority Medium	Estimate None	References None
Automatable No			

Preconditions

1. Open Firefox with a new profile
2. In about:config set the value of the "dom.ipc.processCount.file" preference to 2.
3. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
4. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Install the crash me now add-on and place it on the Open menu panel (Open menu -> Customize and drag the "Crash Content process" over the Open menu panel area https://addons.mozilla.org/en-US/firefox/addon/crash-me-now-simple/?src=ss)	Add-on is installed. (The Crash Content process icon is placed in the Open menu panel)
3 Open at least 5 new tabs and in each load any local file of your choice	All the local files are properly opened 2 content processes are allocated for the local files
4 Place yourself in any tab of a local file, hover your mouse over the tab to see the PID of the content process and check how many local files share the same content process	One or more local files share the same content process.
5 Click on Crash Content process icon in the Open menu panel	The content of that local file crashes If you hover the mouse of the tabs of the local files that shared the same content process you will notice that there is no process ID between the brackets The content process of the local file from step 4 is closed in the task manager/System Monitor /Activity Monitor. The other local content process opened in step 2 remains opened.
6 Chose to Restore This Tab	The tab with the local file is properly restored and a new content process is opened for it
7 Reload all the tabs and hover your mouse over all the local files tabs	Each opened local file has an allocated process content ID available between the brackets

C26278: Reload local files

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox, navigate to about:config and set the preference "dom.ipc.processCount.file" = 2
2. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
3. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).

Steps

	Step	Expected Result
1	Launch Firefox	Firefox is opened
2	In new tabs, open 2 websites of your choice (look also at the task manager/system monitor/Activity monitor)	The websites are properly opened 2 content processes should be opened for the websites
3	Open at least 5 local files of your choice (look also at the task manager/system monitor/Activity monitor)	The local files are properly opened Two content processes are opened for all the local files
4	Right click on any tab and select Reload All Tabs (look also at the task manager/system monitor/Activity monitor)	All the tabs are properly reloaded The ids of the content processes are not changed (not before nor after the reload)

4. Accessibility

C26103: Local files and screen readers

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. In about:config, set the preference dom.ipc.processCount.file = 3
2. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
3. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc).
4. Download and install a screen reader tool: Windows: <http://www.nvaccess.org/download> Ubuntu : Universal Access (already installed) -> All settings -> Screen reader -> set it to ON Mac OS X: Use "Voice Over" which is already installed. System Preferences> Accesibility> Voice Over> "Enable Voice Over"

Steps

Step	Expected Result
1 Open the screen reader	
2 Launch Firefox	Firefox is opened
3 In new tabs, open 3 websites of your choice (look also at the task manager/system monitor/Activity monitor)	The websites are properly opened.
4 In new tabs, open 3 local files of your choice (look also at the task manager/system monitor/Activity monitor)	The local files are properly opened in 3 new local content processes The screen reader is not influencing in any way
5 In new tabs, open 2 more local files of your choice (unrelated local files)	The local files are properly opened No new content process is opened The screen reader is not influencing in any way

5. Other tests

C22416: Add-ons - most popular, save as

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc.).
2. Create a local HTML file (name is Test4) that contains:

```
<body>
<a onclick="DownloadText('foo.txt', ['1','2','3']);">click-me</a>
<script>
function DownloadText(filename, textArr, mimetype='text/plain') {
var blob = new Blob(textArr, {type: mimetype});
var url = URL.createObjectURL(blob);

var link = document.createElement('a');
link.href = url;
link.download = filename;

document.body.appendChild(link);
link.click();
document.body.removeChild(link);

}
</script>
</body>
```
3. Save a .xpi file from: <https://ftp.mozilla.org/pub/firefox/releases/52.0b8/win32/xpi/>
4. Navigate to about:config and set the preference "dom.ipc.processCount.file" = 2

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Install the first 10 most popular extensions from: https://addons.mozilla.org/en-us/firefox/extensions/?sort=users	All the extensions are installed
3 Open the local file named Test4 (look at the Process ID)	The local file is opened A new content process is opened for the local file
4 Click on click-me and select Save File	The file is downloaded
5 Open the Download panel, drag the downloaded file and drop it onto the Tabs bar	A new local file is opened On Nightly - a new content process is opened
6 Open 6 more local files (by drag and drop, File-> Open File, Ctrl+O key shortcut)	All the local files are properly opened On Nightly - the same 2 processes opened in steps 3 and 5 are used for all the local files
7 Close all the tabs opened in steps 5 and 6.	All the local files are properly closed. Only one file content process remains opened for the local file opened in step 3.

-
- | | | |
|---|---|---|
| 8 | Open a new tab and load a website of your choice, drag the .xpi file and drop it over the tab | The content of the page remains the same
The panel with the install request of the .xpi file is displayed
The content process of the tab after the install is done is the same as before starting the installation of the add-on. |
|---|---|---|
-
- | | | |
|---|--|---|
| 9 | Open a local file, drag the .xpi file and drop it over the tab | The content of the page remains the same
The panel with the install request of the .xpi file is displayed
The content process remains the same after the install as it was before the add-on install. |
|---|--|---|

C22417: Open a local file from History and Bookmarks

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open Firefox with a new profile
2. Check the value of the "dom.ipc.processCount.file" preference is about:config.
3. Have several local files saved on your PC (PNG, HTML, WebM, .txt, PDF, etc.).

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Open 7 local files of your choice	The local files are opened The number of the content processes allocated for the local files is dependent on the value of the preference "dom.ipc.processCount.file". For e.g if dom.ipc.processCount.file=1, all the local files will be opened in the same content process
3 Close Firefox	Firefox is closed
4 Open Firefox	Firefox is opened
5 In the Tabs bar -> click on Open Menu -> click on History -> Show All History -> Today -> Open All in Tabs	All the local files from step 2 are opened properly The number of the content processes allocated for the local files is dependent on the value of the preference "dom.ipc.processCount.file". For e.g if dom.ipc.processCount.file=1, all the local files will be opened in the same content process
6 Right click on any Tab -> select Bookmark all Tabs -> name the folder -> add Bookmarks	All the tabs that are opened in step 5 are bookmarked
7 Close Firefox	Firefox is closed
8 Open Firefox again	Firefox is opened
9 Open the Bookmarks sidebar -> right click on the folder saved in step 7 -> Open all in Tabs	All the tabs are properly opened (including the local files) The number of the content processes allocated for the local files is dependent on the value of the preference "dom.ipc.processCount.file". For e.g if dom.ipc.processCount.file=1, all the local files will be opened in the same content process

C22418: telemetry

Type	Priority	Estimate	References
Other	Medium	None	None
Automatable			
No			

Preconditions

1. Open the Task manager (Windows - Go to the Details tab)/System Monitor (Ubuntu)/Activity Monitor (Mac OS X) and look at the processes ID.
2. Create the following local HTML page named Telemetry Test:

```
<!DOCTYPE html>
<html>
<title>Telemetry Test</title>
<body>
<iframe height="500px" width="100%" src="https://googlechrome.github.io/samples/service-worker/registration/index.html">
</iframe>
</body>
</html>
```

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Navigate to about:telemetry -> click on Histograms -> click on the dropdown near "parent" and select "content" -> look for the FILE_EMBEDDED_SERVICEWORKERS parameter	The Telemetry data page is opened The FILE_EMBEDDED_SERVICEWORKERS parameter is not found
3 Open a new tab and load the local HTML page named Telemetry Test (look also at the task manager/system monitor/Activity monitor)	The local page is properly opened - an iframe with the Service Worker Sample: Basic Registration A new content process is opened
4 Open the Web Console by going to: Open menu -> Developer -> Web Console	The following message is displayed in the web console: "ServiceWorker registered by document embedded in a file:/// URI. This may result in unexpected behavior."
5 Go back to the Telemetry Data from step 2, refresh the page, click on Histograms -> click on the dropdown near "parent" and select "content" -> look for the FILE_EMBEDDED_SERVICEWORKERS parameter	The Telemetry data page is opened The FILE_EMBEDDED_SERVICEWORKERS parameter is found having 1 sample
6 Open a new tab and load the local HTML page named Telemetry Test again (look also at the task manager/system monitor/Activity monitor)	The local page is properly opened - an iframe with the Service Worker Sample: Basic Registration
7 Go back to the Telemetry Data from step 2, refresh the page, click on Histograms -> click on the dropdown near "parent" and select "content" -> look for the FILE_EMBEDDED_SERVICEWORKERS parameter	The parameter FILE_EMBEDDED_SERVICEWORKERS parameter is found, 2 samples are now displayed

C26102: Local files while e10s is off

Type Other	Priority Medium	Estimate None	References None
Automatable No			

Steps

Step	Expected Result
1 Launch Firefox	Firefox is opened
2 Go to about:preferences -> General -> uncheck "Enable multi-process Nightly" -> select to restart when prompted	Firefox is restarted and e10s is disabled
3 Open several websites of your choice (check also the task manager/system monitor/Activity monitor)	All the websites are properly opened and use the same content process
4 Open several different local files of your choice (check also the task manager/system monitor/Activity monitor)	All the local files are using the same content process as in step 3
5 In a new tab, open a website of your choice, then a local file, another website, and another local file (check also the task manager/system monitor/Activity monitor)	Web sites and local files are properly opened in the same tab No other content process is opened
6 Click on the Back and Forward buttons for a couple of times	Navigating to the tab history is properly done

6. Regressions tests