

Mozile Development

Mozile 0.6.31 – 1 Jan 2007

Known Bugs and Issues

Testing with Firefox 2.0 on Windows.

Caret Movement and Navigation

1. General Caret Movement Problems

The eDOM cursor manipulation is not very good. E.g. It can't move the cursor correctly to the start/end of a line, it always goes to the start/end of the Line container. Using the browser caret handling the Home/End keys move the cursor correctly to the start/end of line. Tag view doesn't now cause as much problem as with Fx1.5; the tags are now skipped. A similar argument applies to the Up/Down keys. You can choose which method you want by commenting out the relevant lines in mozileKeyboard.js. Ideally, at some point the eDOM navigation needs to be improved to hook into the existing browser caret movement functions, if this is possible. Don't forget, that the eDOM should ideally constrain the cursor movement to the editable area and not let you move out of it. Just using the built in browser navigation doesn't let you do this. In most cases, if you are editing a large block of text it doesn't matter. But for anyone who wants to edit small chunks of text (e.g. just the odd word here and there) constraining the cursor to a fixed area is much more important.

2. Caret Movement around end of line in "*white-space: pre*" sections

The caret is incorrectly placed at the end of the previous line when you try to place it at the start of a line using Javascript. This bug has been submitted to Bugzilla and it should be fixed in future versions of Firefox. There is no known Javascript work around to this problem, although you can use the keyboard keys (left, right, home) to correctly navigate through the text. Causes complete confusion when you try and insert or delete text around the end of line.

3. Caret disappears

Sometimes the caret disappears for no good reason and you have to click around to try and get it back. It will appear in some pieces of text but not others. If you know where it should be you can usually still carry on typing and everything else appears to work correctly. Sometimes closing the source edit window if it is open makes the caret reappear.

Detection and Wakeup

1. Toolbar detection has been improved when switching between multiple browser tabs, but it is still not complete and probably never will be. Ideally, switching to a new tab would always reset the Mozile toolbar to match the configuration for that page. If you are editing multiple documents in multiple tabs, each document could have a different MES and hence a different toolbar. At the moment, most of the time you would probably have to click in an editable area to reset the toolbar to its correct state. In reality this is only a minor issue, because not many people edit multiple documents with different MES at the same time.
2. If Mozile "detect and edit" is switched OFF autohiding will no longer work. Hence, to get rid of the toolbar you have to go via a roundabout route. From the main Firefox menu select View > Toolbars and then deselect "Mozile Toolbar" to hide the toolbar. Similarly if the Mozile toolbar is hidden and you want to disable it you first have to show the Mozile toolbar to access the options. Or you could access the Mozile Options from the Tools > Add-ons menu without having to show the Mozile Toolbar. [I don't think this will change, autohiding could be made to work when Mozile is OFF, but it would kind of defeat the whole purpose of having an ON/OFF switch.]

MES

1. Key overrides not yet implemented. The purpose of these is to re-map standard keyboard commands such as enter, tab, etc to other commands to give complete control over the editing environment. The data is currently parsed from the MES, but nothing is done with it.
2. More of the basic editing commands could be made available via the MES. E.g. insert character, split line, etc. Also, there aren't any of the simple "advanced" commands that might be useful such as split an element, delete an element, etc.
3. Only one MES can be used per page. Technically it wouldn't be difficult to do because essentially it would just involve parsing and storing more data, then selecting the correct MES for each editable area. The "class" attribute could be used for xhtml, but this wouldn't work for xml in general. [If implemented, it would be useful to tie in with saving of multiple areas.]
4. **font-weight: bold**
Note that the CSS 2.1 spec does not provide for an equivalent mapping between the font-weight scale (100, 200, ..., 900) and the *bolder* value. The default value for the bold tag is *bolder*, whereas for editing you are likely to use the absolute scale. Hence, if you want the bold tag to show up as equivalent to *font-weight: bold*, which itself is equivalent to *font-weight: 700*, you must redefine the default style for the bold tag. i.e. Put this in your CSS file:

```
b {  
    font-weight: bold;  
}
```

Cut and Paste

1. Only *text* cut and paste is currently working. Most of the code for *xml* and *xhtml* cut and paste seems to be there but needs finishing off.

Saving

1. Saving all editable areas, or all those that have been modified, is not implemented.

Markup editing mode

1. Strict HTML editing is not supported. The XML parser is used for all documents.
2. You can't edit the root element, or anything outside it.
3. The only entities supported are: < > &

Browser bugs

1. The **Mozile Menu** isn't closed when you change applications if you have right clicked and opened one of the context menus. The menu gets left floating above the new application. (The workaround is to make sure you close the window before switching applications.)
2. **Special Chars XUL Dialog**
Window doesn't always redraw correctly on the right hand side when you make a new selection from the dropdown box. Looks like a 1 pixel strip on the inside edge of the right border is not being filled in.

Javascript warnings and errors

1. Always on the lookout for these! Mozile should work in strict Javascript mode and not produce any warnings or errors. Please report any reproducible warnings or errors.

eDOM Limitations

1. Problems navigating *white-space: pre* end of lines.
2. XHTML `
` not fully implemented; problems with navigation.
3. Problems when the editable container is a paragraph or inline element rather than a *div*. Not all commands check when adding or splitting nodes that what they are doing is allowable according to the XHTML DTD. (Some commands have been fixed, others to do.)
4. Styles don't always get merged/removed correctly in the line container.
5. Editing Token - can not be easily changed.
6. Backspace deletes the container of a Token Contained Line if it is the top line. There should be an option to prevent the deletion of the container.
7. eDOM JSUnit test need rewriting.

Namespace issues

1. Report any namespace issues.

XML Specific Issues

1. Report any XML specific issues.

XHTML features not implemented

1. Forms.
2. Tables, other than basic table insertion.
3. Definition lists
4. Nested lists (ol/ul) not complete.
5. Adding unique page bookmarks/ids.
6. Editing of page title.
7. Editing and insertion/deletion of meta tags.
8. Images - very basic. Can't link, edit properties, upload image files.
9. Proper handling of the class attribute. i.e. commands to style using class, and also to correctly normalize class attributes.
10. Proper handling of inline elements such as ``, ``, etc.

Browsers

1. Only works in Firefox 2.0.

Minor Bugs

1. Some minor problems converting between Bounded and Contained Lines. The Contained Lines sometimes end up with invalid whitespace at the start / end of the line.
2. Switching between Bounded and Contained Lines - cursor sometimes moves - due to whitespace handling issues.
3. Inserting an image at the end of a Contained Line after another image - cursor is left before the inserted image instead of at the end of the line.

[Inserting images is not really sorted out but it appears to work well enough in most cases. Not sure what happens if you set the CSS *display* value for images to *block* or *inline*, or if Mozile is meant to handle this automatically - there doesn't appear to be any code for this. The eDOM code used to insert images says it shouldn't be used for images and similar xhtml empty elements...]

Bug Reports

Please report any bugs you find. They might not get fixed very quickly, but if you don't report them they probably won't get fixed at all. This document refers to the 0.6 series. In general, bugs will only be considered for the latest version of the Mozile 0.6 Series. If you report a bug for an old version, the first thing you will be asked to do is verify that bug still exists in the current version. There are also a few cross-platform issues, so it helps if you say what sort of OS you are using.

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