



Comment 7 • a year ago

window when invoked. However, I think a new browser.print might be better if there are going to be other print API calls. How would I go about creating a new WebExtensions API that just needs the ability to invoke the existing "cmd printPreview" command ? Reply Andy McKay [:andym] 🔻 Comment 5 • a year ago Cool. There's a couple of extra wrinkles that come with a WebExtension, but in the end you'll just be calling printUtils and providing a few extra things like creating the schema. If you haven't built Firefox before, you can learn how to get set up to to work on it here: https://developer.mozilla.org/en-US/docs/Mozilla/Developer_guide/Build_Instructions/Simple_Firefox_build Some details on hacking on WebExtensions is here: https://wiki.mozilla.org/WebExtensions/Hacking Probably the best way to go is to look at some other APIs, one example is: https://dxr.mozilla.org/mozilla-central/source/browser/components/extensions/ext-history.js https://dxr.mozilla.org/mozilla-central/source/browser/components/extensions/schemas/history.json I've added Kris as a mentor, he can help you out with any more questions. Mentor: kmaglione+bmo@mozilla.com Tim Nguyen:ntim 🔻 Updated • a year ago Status: UNCONFIRMED → NEW Ever confirmed: true Andy McKay [:andym] * Updated • a year ago Whiteboard: [design-decision-needed]triaged → [design-decision-approved]triaged dw-dev ▼ (Assignee) Reply Comment 6 • a year ago Kris, I have looked at the documents and source code referenced by Andy. As far as I can see, the changes I need to make to implement a printPreview() API are fairly trivial, and the effort involved will be far outweighed by setting up the Firefox build environment! I have a few questions: 1. As an example, to add a new interface to chrome.tabs, what else would I need to modify besides ext-tabs.js and tabs.json? 2. I understand I would have to add the new bespoke interface to browser.tabs rather than to chrome.tabs. How would I do that? 3. We may want to add the new interface to a new set of interfaces, for example, to browser.print rather than to browser.tabs. Who makes that decision? Would I just have to add two new files, ext-print.js and print.json? 4. I still have a feeling that it would be nice to have a generic interface that allows any Firefox standard command to be executed. For example, in my case, browser.runtime.executeCommand("cmd_printPreview"), which would just call window.doCommand("cmd_printPreview"). Is this idea worth pursuing? Flags: needinfo?(kmaglione+bmo@mozilla.com) Andy McKay [:andym] * Reply

3 von 27

> 4. I still have a feeling that it would be nice to have a generic interface
> that allows any Firefox standard command to be executed. For example, in my
> case, browser.runtime.executeCommand("cmd_printPreview"), which would just
> call window.doCommand("cmd_printPreview"). Is this idea worth pursuing?

I would caution against that, however it depends what you mean by "standard command". We are making sure that any API we write is suitable for extensions, conforms to security and privacy standards, works well with e10s and is async. Not everything in Firefox meets that.



```
every interface either takes a window parameter or returns one or more windows. But PrintUtils.printPreview()
always previews the selected tab (and creates a preview tab and optionally a simplify page tab). So I don't
think it really fits with the other chrome.tab or chrome.windows interfaces.
Chrome has a chrome.printProvider set of interfaces, but I don't think printPreview() really fits.
If we go for a new chrome.print set of interfaces, I could envisage chrome.print.print() and
chrome.print.pageSetup(), as well as chrome.print.printPreview. Another alternative would be a new
chrome.custom set of interfaces, which could be used for specific custom interfaces required by add-ons, such as
chrome.custom.printPreview().
What do you think?
Flags: needinfo?(kmaglione+bmo@mozilla.com)
    Andy McKay [:andym] 🔻
     Updated • a year ago
Flags: needinfo?(amckay@mozilla.com)
     Kris Maglione [:kmag] *
     Updated • 10 months ago
Duplicate of this bug: 1303733
     r.chrzanowski *
                                                                                                                  Reply
     Comment 12 • 10 months ago
If we are talking about print API in WebExtensions I would like it to be possible to call both printing and
print priview with ability to pass printSettings object (allowing to chose printer name, page size, margins,
header/footer etc.). Just like it was possible to do with current extensions.
    Andy McKay [:andym] 🔻
     Updated • 9 months ago
Component: WebExtensions: Untriaged → WebExtensions: General
Summary: WebExtensions: Need a way to invoke Print Preview from WebExtension add-on → Need a way to invoke Print Preview from WebExtension
add-on
     Andy McKay [:andym] *
     Updated • 9 months ago
Priority: -- → P5
     dw-dev ▼ (Assignee)
                                                                                                                  Reply
     Comment 13 • 8 months ago
Over the past couple of months, I have been working on creating WebExtensions versions of my other Firefox add-
ons (Navigate Up, Search Site, Tile Tabs & Zoom Page), so I have not been able to progress this bug.
Returning to look at this bug again, I think the right way forwards is to add a new
'browser.tabs.printPreview(callback)' interface.
To do this, in tabs.json, we would add the following code:
    {
      "name": "printPreview",
"type": "function",
       "description": "Shows print preview for active tab.",
       "async": "callback",
       "parameters": [
           "type": "function", "name": "callback",
           "parameters": [
               "type": "boolean",
"name": "status",
               "description": "Whether print preview was successful."
          ]
        }
      ]
```

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},
And, in ext-tabs.js, we would add the following code:
    printPreview(callback) {
      let tab = TabManager.activeTab;
      let mm = tab.linkedBrowser.messageManager;
      let onEntered = (message) => {
        mm.removeMessageListener("Printing:PrintPreview:Entered", onEntered);
        callback(message.data.failed);
      }
      mm.addMessageListener("Printing:Preview:Entered", onEntered);
      PrintUtils.printPreview(PrintPreviewListener);
    },
Is it possible for someone familiar with the Firefox build and review process to apply these changes?
                                                                                                           Reply
    dw-dev ▼ (Assignee)
    Comment 14 • 8 months ago
Please could you give me some feedback on the proposed code changes in Comment 13.
Would these code changes be sufficient and acceptable if I made them ?
     Tomislav Jovanovic :zombie 🔻
                                                                                                           Reply
     Comment 15 • 8 months ago
(In reply to dw-dev from comment #14)
> Would these code changes be sufficient and acceptable if I made them ?
This bug is flagged as [design-decision-approved], so we want to do this. You are asking if your code is a good
fix for the bug, or in other words, you are asking for code review. If you produce your code in the form of a
patch and flag for review?, you should get a faster response.
                                                                                                           Reply
    kernp25 ▼
    Comment 16 • 4 months ago
Can i work on this bug?
                                                                                                           Reply
    dw-dev (Assignee)
     Comment 17 • 4 months ago
Thanks for your interest. I would welcome your help or advice.
Two API functions are required to make Print Edit WE really useful and equivalent to my original Print Edit add-
  chrome.tabs.printPreview(callback)
  - chrome.tabs.saveAsPDF(pageSettings,callback)
I have already done a prototype implementation of both these functions in my local version of mozilla-central.
And they both work really well with a slightly modified version of Print Edit WE.
However, there are a couple of areas where I would welcome help or advice:
1. I have not been able to get the asynchronous callback functions working, probably because of my unfamiliarity
with promises. Having callbacks is not essential, but would it would be nice to pass back a success/failure
status.
2. The next step is to submit the changes for review and release, hopefully in time for Firefox 56, if not
Firefox 55.
However, I have no experience of using the Mozilla tools to uploading changes to Firefox for review and release.
I can upload the two changed files (tabs.json & ext-tabs.js) if you are interested.
                                                                                                           Reply
    kernp25 ▼
     Comment 18 • 4 months ago
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```
(In reply to dw-dev from comment #17)
> Thanks for your interest. I would welcome your help or advice.
> Two API functions are required to make Print Edit WE really useful and
> equivalent to my original Print Edit add-on:
     - chrome.tabs.printPreview(callback)
    - chrome.tabs.saveAsPDF(pageSettings,callback)
We also need an api for calling window.print()
Here's why:
1) Setting the pref "dom.disable_window_print" disables the window.print function/method
2) Calling window.print a third time will display a dialog "Prevent this page from creating additional dialogs"
if the user clicks ok (by mistake) then window.print is disabled. ([Exception... "Component is not available
nsresult: "0x80040111 (NS_ERROR_NOT_AVAILABLE)" location: "JS frame :: debugger eval code :: <TOP_LEVEL> :: line
1" data: no])
https://dxr.mozilla.org/mozilla-central/source/dom/base/nsGlobalWindow.cpp#7916
    r.chrzanowski *
                                                                                                           Reply
    Comment 19 • 4 months ago
Personnaly I'd love to see API that would allow to query for available printers and change print settings
(printer, page size, margins, even silent printing -- or just pass them once with a single printing job).
I can see that is something that that could be abused (silently sending hundreds of pages to network printer or
something) but that would allow for ex. batch printing (for ex. invoices) from web applications.
    dw-dev ▼ (Assignee)
                                                                                                           Reply
    Comment 20 • 4 months ago
(In reply to kernp25 from comment #18)
> We also need an api for calling window.print()
> Here's why:
> 1) Setting the pref "dom.disable_window_print" disables the window.print
> function/method
> 2) Calling window.print a third time will display a dialog "Prevent this
> page from creating additional dialogs" if the user clicks ok (by mistake)
> then window.print is disabled. ([Exception... "Component is not available"
> nsresult: "0x80040111 (NS_ERROR_NOT_AVAILABLE)" location: "JS frame ::
> debugger eval code :: <TOP_LEVEL> :: line 1" data: no])
I understand points (1) \delta (2) and that in these cases window.print() is disabled.
This would only be an issue for Print Edit WE if the user prints the same page multiple times, using the Print
item on the right-click menu of the Print Edit WE toolbar button. I assume you are thinking of wider
applications. Is it a good idea to bypass the "dom.disable_window_print" pref?
    dw-dev (Assignee)
                                                                                                           Reply -
    Comment 21 • 4 months ago
(In reply to r.chrzanowski from comment #19)
> Personnaly I'd love to see API that would allow to query for available
> printers and change print settings (printer, page size, margins, even silent
> printing -- or just pass them once with a single printing job).
For the moment, I would like to focus on the API support needed for Print Edit WE, which was the original driver
for this interface request. Down the track, I think it would make sense to have a pageSetup(pageSettings)
function, and possibly a printer enumeration function.
                                                                                                           Reply
     kernp25 *
    Comment 22 • 3 months ago
(In reply to dw-dev from comment #20)
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> (In reply to kernp25 from comment #18)
  > We also need an api for calling window.print()
>
> > Here's why:
>
> > 1) Setting the pref "dom.disable_window_print" disables the window.print
> > function/method
> > 2) Calling window.print a third time will display a dialog "Prevent this
  > page from creating additional dialogs" if the user clicks ok (by mistake)
  > then window.print is disabled. ([Exception... "Component is not available"
> > nsresult: "0x80040111 (NS_ERROR_NOT_AVAILABLE)" location: "JS frame ::
  > debugger eval code :: <TOP_LEVEL> :: line 1" data: no])
 > I understand points (1) \delta (2) and that in these cases window.print() is
> disabled.
> Is it a good idea to bypass the "dom.disable_window_print"
> pref?
window.print() should always be available to webextensions.
Comment hidden (mozreview-request)
                                                                                                                      +
     Andy McKay [:andym] 🔻
                                                                                                               Reply
     Comment 24 • 3 months ago
Thanks for the patch dw-dev. I don't actually review patches for WebExtensions, but at a quick glance, it has
zero tests and all the code inside WebExtensions has unit tests to ensure that it has tests and won't regress
when something changes inside Firefox.
If you look in browser/components/extensions/test, you'll find the tests for tabs. We aim for 100% coverage on
our tests if possible.
I don't think it would hurt to have Kris give it a quick look over though to make sure you are on the right
path.
     Andy McKay [:andym] *
     Updated • 3 months ago
Attachment #8860457 - Flags: review?(amckay@mozilla.com)
     dw-dev ▼ (Assignee)
                                                                                                               Reply
     Comment 25 • 3 months ago
Kris, Andy,
As you can see, I have submitted a patch to add print(), printPreview() and saveAsPDF(pageSettings) functions to
the chrome.tabs WebExtensions API's. I have tested these functions using my local build of Firefox and modified
version of my Print Edit WE add-on.
The key design considerations were:
1. Whether chrome.tabs.print() and chrome.tabs.printPreview() should have a pageSettings parameter. This
parameter is not necessary for Print Edit WE and I cannot see the need in other scenarios. Both print and print
preview will use the current (default) printer page settings. The user will be interacting with the print
preview window and can use the Page Setup dialog to change the page settings.
2. Whether chrome.tabs.print() is really necessary. Arguably this function is not necessary since
window.print() could be used instead, but see Comment 18 & Comment 22 above.
3. Whether these functions should have callback function parameters. These are not really necessary for knowing when a print or print preview has completed, because the 'afterprint' event can be used. They might be useful
for passing back a status (error) indicator, especially in the case of saveAsPDF() if the user cancels the 'Save
As' dialog. To be honest, I tried adding callback functions, but could not get them to work correctly.
4. In the longer term, I would expect there to be a chrome.tabs.pageSetup(pageSettings) function added, which
would set the page settings for the current (default) printer.
I welcome your thoughts on these issues.
                                                                                                               Reply
     dw-dev ▼ (Assignee)
     Comment 26 • 3 months ago
```

```
(In reply to Andy McKay [:andym] from comment #24)
> Thanks for the patch dw-dev. I don't actually review patches for
> WebExtensions, but at a quick glance, it has zero tests and all the code
> inside WebExtensions has unit tests to ensure that it has tests and won't
> regress when something changes inside Firefox.
> If you look in browser/components/extensions/test, you'll find the tests for
> tabs. We aim for 100% coverage on our tests if possible.
> I don't think it would hurt to have Kris give it a quick look over though to
> make sure you are on the right path.
Andy, I was aware of the automated tests in browser/components/extensions/test, but I haven't done anything
about tests for these new interfaces, for two reasons:
1. I need some feedback and agreement on the design of these new interfaces, before spending time on developing
automated tests.
2. It is not obvious to me what tests could be automated for these new interfaces, other than checking for
'beforeprint' events. Ideally, for chrome.tabs.print() and chrome.tabs.printPreview() there would be a "dummy"
printer with default print settings in the test environment, but I am not aware if that is the case. Also, chrome.tabs.saveAsPDF() requires user interaction with the "Save As" dialog, so I'm not sure how this could be
tested.
I think it would be good to get input from Bob Owen who has done a lot of work on the core print, print preview
and print as PDF code, regarding the possibilities for testing. I know there is an intention to improve the
testing of the core print and print preview functionality.
Flags: needinfo?(bobowencode@gmail.com)
                                                                                                                Reply -
     Bob Owen (:bobowen) *
     Comment 27 • 3 months ago
(In reply to dw-dev from comment #26)
> (In reply to Andy McKay [:andym] from comment #24)
> I think it would be good to get input from Bob Owen who has done a lot of
> work on the core print, print preview and print as PDF code, regarding the
> possibilities for testing. I know there is an intention to improve the
> testing of the core print and print preview functionality.
Unfortunately, I've still not had chance to work on any printing tests.
Someone else has got quite a long way with testing using PDF.js (bug 1299848), but I don't think anything has
landed.
I don't know enough about web extensions to know how much testing could be done, to make sure the correct things
are being called without actually printing.
I would have thought that print preview could be tested though.
I don't know the print preview side of things all that well, I think we have some tests that mimick and test the
layout, but I'm not sure what we have that fully invokes print preview.
Flags: needinfo?(bobowencode@gmail.com)
    Andy McKay [:andym] 🔻
     Updated • 3 months ago
Attachment #8860457 - Flags: review?(kmaglione+bmo@mozilla.com) → review?(mixedpuppy@gmail.com)
    🛓 Andy McKay [:andym] 🔻
     Updated • 3 months ago
Mentor: kmaglione+bmo@mozilla.com → mixedpuppy@gmail.com
  Shane Caraveo (:mixedpuppy) 🔻
                                                                                                                Reply
     Comment 28 • 3 months ago
 mozreview-review
Comment on attachr
Bug 1269300 Patch 2
https://reviewboard.mozilla.org/r/132450/#review139396
```

```
The patch seems pretty straight forward, I just need to digest all the bug comments and think about tests and
the api namespace.
::: browser/components/extensions/ext-tabs.js:763
(Diff revision 1)
> +
> +
> +
          printPreview() {
            let activeTab = getTabOrActive(null);
> +
            let {PrintUtils} = activeTab.ownerGlobal;
> +
> +
            let {PrintPreviewListener} = activeTab.ownerGlobal;
let {
  PrintUtils,
  PrintPreviewListener
} = activeTab.ownerGlobal
::: browser/components/extensions/ext-tabs.js:772
(Diff revision 1)
> +
> +
          saveAsPDF(pageSettings) {
> +
            let activeTab = getTabOrActive(null);
            let picker =
Components. classes \hbox{\tt $[$@mozilla.org/filepicker;1$].} create \hbox{\tt $Instance(Components.interfaces.ns} \hbox{\tt $IfilePicker)$;} \\
            picker.init(activeTab.ownerGlobal, "Save As", Components.interfaces.nsIFilePicker.modeSave);
> +
Be sure to run ./mach eslint on the files, it will catch a bunch of code style nits.
::: browser/components/extensions/ext-tabs.js:802
(Diff revision 1)
                printSettings.showPrintProgress = false;
> +
> +
> +
                printSettings.printFrameType = Components.interfaces.nsIPrintSettings.kFramesAsIs;
> +
                printSettings.outputFormat = Components.interfaces.nsIPrintSettings.kOutputFormatPDF;
> +
> +
                if (pageSettings.orientation !== null) printSettings.orientation = pageSettings.orientation;
For those attributes that are named the same, do something like:
for opt in ["orientation", ...]
if pageSettings.has(opt) printSettings[opt] = pageSettings[opt]
::: browser/components/extensions/schemas/tabs.json:1036
(Diff revision 1)
            "type": "function",
> +
            "description": "Saves page in active tab as a PDF file.",
> +
            "parameters": [
> +
> +
              1
                 "type": "object",
> +
                "name": "pageSettings",
Lets make this a type, see "Tab" in the types section of this file.
Attachment #8860457 - Flags: review?(mixedpuppy@gmail.com)
                                                                                                                 Reply -
    dw-dev ▼ (Assignee)
     Comment 29 • 3 months ago
Shane, thanks for getting involved and reviewing my first ever attempt at a Firefox patch.
_____
With regards to your review points:
> I just need to digest all the bug comments and think about tests and the api namespace.
I chose the 'tabs' namespace because it seemed the best fit of the existing namespaces. Chrome already has a
'printerProvider' namespace, but I'm not sure the new API's fit into that namespace. If we go for a new namespace, then I would favour 'print' or 'pagePrint' (similar to 'pageCapture'). If necessary, we could also
```

 ${\tt rename \ save ASPDF() \ to \ print ToPDF() \ to \ make \ it \ more \ obvious \ that \ this \ is \ a \ print-based \ function.}$

```
> let {
    PrintUtils,
    PrintPreviewListener
> } = activeTab.ownerGlobal
Yes.
> Be sure to run ./mach eslint on the files, it will catch a bunch of code style nits.
Good idea.
> For those attributes that are named the same, do something like:
> for opt in ["orientation", ...]
> if pageSettings.has(opt) printSettings[opt] = pageSettings[opt]
I originally had the code as you suggest, but decided against it, because it would allow an add-on to change any
of the settings in printSettings. I think an add-on should only be allowed to change those settings that are
configurable by the user in the Page Setup dialog. So these are the settings I have defined in pageSettings. I
could change the code to use a loop with a defined list of properties, if you would prefer.
> Lets make this a type, see "Tab" in the types section of this file.
Good idea.
```

Back in Comment 25, I mentioned that I had tried adding callback functions, but could not get them to work correctly.

I have now realized what I was doing wrong and have implemented a callback function for saveAsPDF(). The callback function is called when the 'Save As' dialog closes and returns a status code (0 = saved, 1 = cancelled, 2 = replaced, 3 = cannot create, 4 = cannot replace). I have tested this with a modified version of my Print Edit WE add-on and it works really well.

I have also done some more thinking about the feasibility of callback functions for print() and printPreview(), based on my knowledge of how things work in printUtils.js and browser-content.js.

I don't think there is any easy way of knowing when a print operation has completed. A 'Printing:Error' message is sent if printing is unsuccessful, but no message is sent if printing is successful. If we really want to have a callback, we would need to call webBrowserPrint.print() in the content process with a print progress listener. Without a callback function, add-ons can listen for the 'afterprint' event, although I am not sure exactly when this event is fired.

Similarly, I don't think there is any easy way of knowing when entry into print preview has completed. It would be possible to listen for the 'Printing:Preview:Entered' message, except that I can't see any way of knowing the identity of the print preview browser. As an alternative, add-ons could listen for the 'beforeprint' event, although I am not sure exactly when this event is fired.

My feeling is that callback functions for print() and printPreview() are not essential at the moment and can be left for a future enhancement.

What do you think?



I have now found a way to implement a callback function for printPreview(). The callback function is called when print preview mode has been entered and returns a status code (false = failed, true = suceeded).

With regards to testing these new APIs:

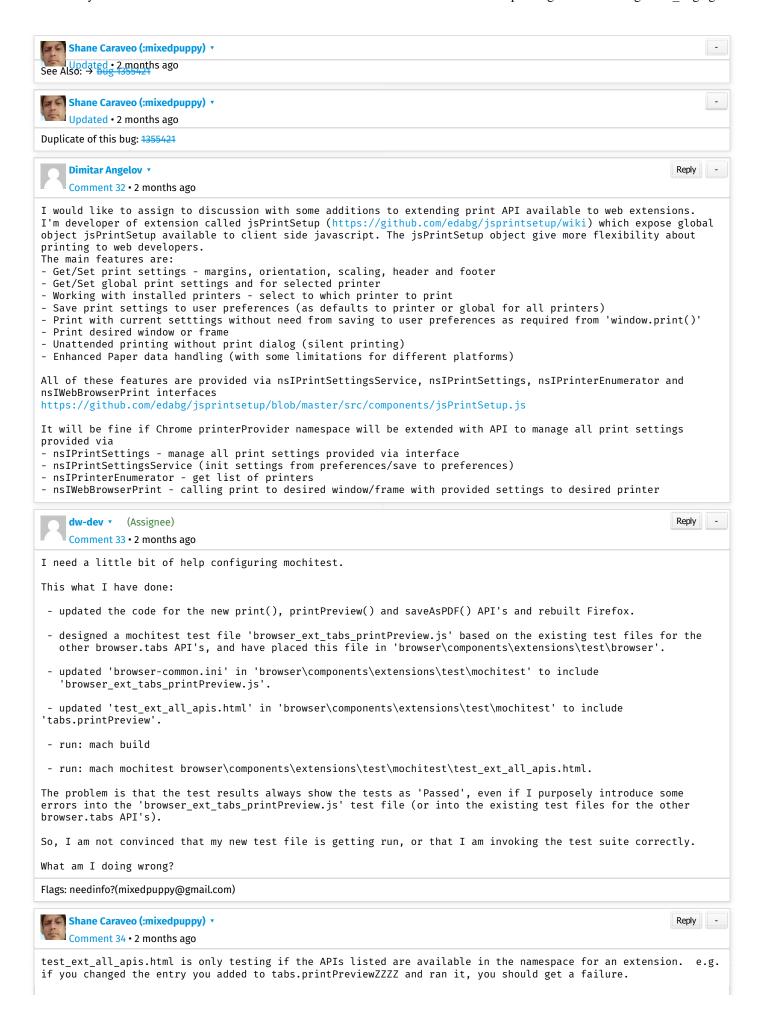
print() - Based on Bob Owen's comments and the print code in printUtils.js, I am struggling to see what can be tested programatically.

printPreview() - We could test that the print preview toolbar has been created and that the print preview browser has been created.

saveAsPDF() - We could test that the file has been created with non-zero size, but only if it is possible to programmatically respond to the 'Save As' dialog.

I am wondering whether we really need to make the pageSettings object into a type, since I have noticed that this has not been done for the object parameters to create(), query() or update()?

29.07.2017, 20:28 11 von 27



```
Flags: needinfo?(mixedpuppy@gmail.com)
Comment hidden (mozreview-request)
                                                                                                                 +
Shane Caraveo (:mixedpuppy) 🔻
    Updated • 2 months ago
Attachment #8860457 - Flags: review?(amckay@mozilla.com) → review?(mixedpuppy@gmail.com)
    dw-dev ▼ (Assignee)
                                                                                                           Reply
     Comment 36 • 2 months ago
Shane - apologies that this review was not directed to you.
With regards to the latest patch:
- The source code of tabs.json and ext-tabs.js has been updated in line with the comments in Comment 28, except
for one comment - see Note 1.
- Callback functions (returning a status value) have been added to tabs.printPreview() and tabs.saveAsPDF().
- An automated test has been added for tabs.printPreview(), but not for tabs.print() and tabs.saveAsPDF() - see
Note 2.
- The source code has been run through mach eslint and corrections made.
- All three functions have been thoroughly tested using a modified version of Print Edit WE (19.0b2) - see
I think this patch is ready for your approval.
Note 1
I tried copying the pageSettings to the printSettings using the following code:
    for (let setting of ["orientation", "scaling", "shrinkToFit", ... "marginBottom"]) {
      if (pageSettings.hasOwnProperty(setting)) {
        printSettings[setting] = pageSettings[setting];
      }
    }
However, this code and all of the other looping variants I tried (indexed arrays, etc) failed with the error
    NS_ERROR_XPC_CANT_MODIFY_PROP_ON_WN: Cannot modify properties of a WrappedNative
Further testing showed that:
 - printSettings["orientation"] = pageSettings["orientation"] always works
 - printSettings[propName] = pageSettings[propName] often fails with the above error message.
Therefore, I have reverted to my original long-hand copying of the settings.
Note 2
My view is that automated testing of tabs.print() and tabs.saveAsPDF() would be difficult:
print() - Bear in mind that this is essentially just a one line function. Based on Bob Owen's comments and the
code in printUtils.js, it is difficult to see what automatic tests could be performed. Is it possible to detect
the 'Print' dialog opening? Is it possible to close the 'Print' dialog programmatically?
saveAsPDF() - To do an automatic test, we would need to respond to the 'Save As' dialog, and then check that the
PDF file has been created with the correct name and non-zero size. Is it possible to detect the 'Save As' dialog
opening? Is it possible to respond to the 'Save As' dialog programmatically? Where would the saved file be
created?
```

```
Reply
     dw-dev ▼ (Assignee)
     Comment 37 • 2 months ago
Print Edit WE 19.0b2 with calls to print(), printPreview() and saveAsPDF()
This is the modified version of Print Edit WE (19.0b2) used to test the three new API functions: tabs.print(),
tabs.printPreview() and tabs.saveAsPDF().
    dw-dev ▼ (Assignee)
    Updated • 2 months ago
Attachment #8875888 - Attachment description: Print Edit WE 19.0b2 wih calls to print(), printPreview() and saveAsPDF() → Print Edit WE 19.0b2 with
calls to print(), printPreview() and saveAsPDF()
  Shane Caraveo (:mixedpuppy) 🔻
                                                                                                             Reply
    Comment 38 • 2 months ago
 mozreview-review
Comment on attachment 8860457 [details]
Bug 1269300 Patch 2
https://reviewboard.mozilla.org/r/132450/#review151552
Looking good, just a few things to work through.
::: browser/components/extensions/ext-tabs.js:775
(Diff revision 2)
> +
> +
                let mm = ppBrowser.messageManager;
> +
                let onEntered = (message) => {
> +
                  mm.removeMessageListener("Printing:Preview:Entered", onEntered);
> +
                  return resolve(!message.data.failed);
I think this should use ExtensionError.
if (message.data.failed) {
  throw new ExtensionError("print preview failed");
resolve():
And remove the boolean callback.
Alternative: After seeing multiple status types on saveAsPDF, maybe return a string for the status here to be
consistent. The status would be either "failed" or "success"
::: browser/components/extensions/ext-tabs.js:803
(Diff revision 2)
                      let fstream = Components.classes["@mozilla.org/network/file-output-
stream;1"].createInstance(Components.interfaces.nsIFileOutputStream);
                      fstream.init(picker.file, 0x2A, 0x1B6, 0); // write|create|truncate, file permissions rw-
rw-rw- = 0666 = 0x1B6
                      fstream.close(); // unlock file
> +
> +
                    } catch (e) {
                      let promptService = Components.classes["@mozilla.org/embedcomp/prompt-
service;1"].getService(Components.interfaces.nsIPromptService);
                      promptService.alert(null, "Warning", retval == 0 ? "Cannot create file." : "Cannot replace
file because it is locked.");
Strings in UI will need to be localizable.
::: browser/components/extensions/ext-tabs.js:804
(Diff revision 2)
                      fstream.init(picker.file, 0x2A, 0x1B6, 0); // write|create|truncate, file permissions rw-
> +
rw-rw- = 0666 = 0x1B6
                      fstream.close(); // unlock file
> +
> +
                    } catch (e) {
                      let promptService = Components.classes["@mozilla.org/embedcomp/prompt-
service;1"].getService(Components.interfaces.nsIPromptService);
                      promptService.alert(null, "Warning", retval == 0 ? "Cannot create file." : "Cannot replace
file because it is locked.");
                      return resolve(retval == 0 ? 3 : 4);
```

```
return strings for status
::: browser/components/extensions/ext-tabs.js:807
(Diff revision 2)
                      let promptService = Components.classes["@mozilla.org/embedcomp/prompt-
> +
service;1"].getService(Components.interfaces.nsIPromptService);
                     promptService.alert(null, "Warning", retval == 0 ? "Cannot create file." : "Cannot replace
file because it is locked.");
                     return resolve(retval == 0 ? 3 : 4);
> +
> +
> +
                    let psService = Components.classes["@mozilla.org/gfx/printsettings-
> +
service;1"].getService(Components.interfaces.nsIPrintSettingsService);
Shorten to Cc["X"].getService(Ci.X) (and elsewhere in patch)
::: browser/components/extensions/ext-tabs.js:819
(Diff revision 2)
> +
                    printSettings.showPrintProgress = false;
> +
> +
                    printSettings.printFrameType = Components.interfaces.nsIPrintSettings.kFramesAsIs;
                    printSettings.outputFormat = Components.interfaces.nsIPrintSettings.kOutputFormatPDF;
> +
> +
> +
                    if (pageSettings.orientation !== null) printSettings.orientation = pageSettings.orientation;
if () {
..stuff
}
You should run ./mach eslint --setup then ./mach eslint path/to/file, it will show you any nits for style.
::: browser/components/extensions/schemas/tabs.json:140
(Diff revision 2)
>
>
           "id": "PageSettings",
> +
           "type": "object"
> +
           "description": "The page settings including: orientation, scale, background, margins, headers,
> +
footers.",
           "properties": {
> +
Please format the json. Remove "Str" and change "BG" to "Background".
::: browser/components/extensions/schemas/tabs.json:1078
(Diff revision 2)
            "async": "callback",
> +
> +
            "parameters": [
> +
               "$ref": "PageSettings",
> +
                "name": "pageSettings",
> +
               "description": "The page settings including: orientation, scale, background, margins, headers,
> +
footers. Note: Page Setup dialog cannot configure settings for printing to PDF file.
We don't need to include examples of what page settings are. Just say "The page settings used to print the
PDF". The note should go on the MDN documentation, but could probably use some clarity.
::: browser/components/extensions/schemas/tabs.json:1084
(Diff revision 2)
> +
> +
                "type": "function",
> +
               "name": "callback",
> +
> +
                "optional": true,
               "description": "Called after save as dialog closed.",
> +
Is it after the dialog is closed, or once the PDF is completely saved?
::: browser/components/extensions/schemas/tabs.json:1089
(Diff revision 2)
```

```
"description": "Called after save as dialog closed.",
> +
>
                "parameters": [
> +
                    "type": "integer", "name": "status",
> +
                     description": "Śave status: 0 = saved, 1 = cancelled, 2 = replaced, 3 = cannot create, 4 ="
> +
cannot replace.'
Change status to string and return the strings rather than numbers.
::: browser/components/extensions/test/browser/browser_ext_tabs_printPreview.js:42
(Diff revision 2)
     isnot(ppToolbar, null, "print preview toolbar created");
> + is(ppTab, gBrowser.selectedTab, "print preview tab selected");
> +
     is(ppTab.linkedBrowser.currentURI.spec, "about:printpreview", "print preview browser url correct");
     PrintUtils.exitPrintPreview();
Let's be sure we're waiting for this to complete.
await BrowserTestUtils.waitForCondition(() => !window.gInPrintPreviewMode);
Attachment #8860457 - Flags: review?(mixedpuppy@gmail.com) → review-
 Shane Caraveo (:mixedpuppy) 🔻
                                                                                                            Reply
    Comment 39 • 2 months ago
mozreview-review
Comment on attachment 8860457 [details]
Bug 1269300 Patch 2
https://reviewboard.mozilla.org/r/132450/#review151584
::: browser/components/extensions/ext-tabs.js:803
(Diff revision 2)
                      let fstream = Components.classes["@mozilla.org/network/file-output-
stream;1"].createInstance(Components.interfaces.nsIFileOutputStream);
                      fstream.init(picker.file, 0x2A, 0x1B6, 0); // write|create|truncate, file permissions rw-
rw-rw- = 0666 = 0x1B6
                      fstream.close(); // unlock file
> +
                      let promptService = Components.classes["@mozilla.org/embedcomp/prompt-
service;1"].getService(Components.interfaces.nsIPromptService);
                      promptService.alert(null, "Warning", retval == 0 ? "Cannot create file." : "Cannot replace
file because it is locked.");
Probably should just skip the promptservice and return an error. I'm also still a bit torn between the use of a
string returned for an error vs. ExtensionError, thinking about it more.
     dw-dev (Assignee)
                                                                                                            Reply
    Comment 40 • 2 months ago
Thanks for the feedback.
With regards to the points you've raised:
printPreview():
> I think this should use ExtensionError.
> if (message.data.failed) {
    throw new ExtensionError("print preview failed");
> }
> resolve();
> And remove the boolean callback.
OK. I think we should take the same approach with saveAsPDF() - see last point below.
Please confirm that the error message can be retrieved in the callback function using browser.runtime.lastError.
```

```
> Strings in UI will need to be localizable.
Assuming we use ExtensionError for saveAsPDF(), then the only UI string will be "Save As" in the file picker
Do the error strings passed into ExtensionError() count as UI strings?
Which .dtd file should this string(s) be declared in?
> Shorten to Cc["X"].getService(Ci.X) (and elsewhere in patch)
OK.
> if () {
  ..stuff
> }
> You should run ./mach eslint --setup then ./mach eslint path/to/file, it will show you any nits for style.
I have already done this for ext-tabs.js and have just done it again. eslint does not flag any errors or
warnings.
I can put curly braces on these "if" statements, but it will make the code a lot longer.
Single-line conditional assignments might be a cleaner solution, for example:
  printSettings.orientation = (pageSettings.orientation !== null) ? pageSettings.orientation : ;
> Please format the json. Remove "Str" and change "BG" to "Background".
I just copied the format from the "Tab" declaration as you had suggested.
What do you mean by: remove "Str"?
I have used "BG" for consistency with the setting in the standard printSettings object.
> We don't need to include examples of what page settings are. Just say "The page settings used to print the
PDF".
OK.
> Is it after the dialog is closed, or once the PDF is completely saved?
At present, it is after the dialog is closed.
I could add a printProgressListener(), which is what I do in my original Print Edit add-on, but it is quite a
lot of code. If we do this, there would be an additional error state ("save failed") to pass back in
ExtensionError.
> Change status to string and return the strings rather than numbers.
Status will no longer be returned as parameter. Will call ExtensionError instead.
> Let's be sure we're waiting for this to complete.
> await BrowserTestUtils.waitForCondition(() => !window.gInPrintPreviewMode);
OK.
saveAsPDF():
```

```
> Probably should just skip the promptservice and return an error. I'm also still a bit torn between the use
of a string
> returned for an error vs. ExtensionError, thinking about it more.
For consistency with printPreview(), I think we should just skip the promptservice and call ExtensionError with
the strings "cannot save file" or "cannot replace file" in the error cases.
If you can provide clarifications on the above points, I should be able to update the patch in a couple of days.
Flags: needinfo?(kmaglione+bmo@mozilla.com) → needinfo?(mixedpuppy@gmail.com)
                                                                                                           Reply -
    Shane Caraveo (:mixedpuppy) •
     Comment 41 • 2 months ago
(In reply to dw-dev from comment #40)
> Thanks for the feedback.
> With regards to the points you've raised:
> printPreview():
> > I think this should use ExtensionError.
> >
>
  > if (message.data.failed) {
      throw new ExtensionError("print preview failed");
> >
> > resolve();
> > And remove the boolean callback.
> OK. I think we should take the same approach with saveAsPDF() - see last
> point below.
> Please confirm that the error message can be retrieved in the callback
> function using browser.runtime.lastError.
Yeah. I was going to add...ext-management uses promptService and illustrates l10n if you needed an example.
I'm on the fence about which is better.
> > Strings in UI will need to be localizable.
> Assuming we use ExtensionError for saveAsPDF(), then the only UI string will
> be "Save As" in the file picker dialog.
> Do the error strings passed into ExtensionError() count as UI strings?
No.
> Which .dtd file should this string(s) be declared in?
See the localization in ext-management.
> I have already done this for ext-tabs.js and have just done it again.
> eslint does not flag any errors or warnings.
If eslint passes here I'm fine.
>> Please format the json. Remove "Str" and change "BG" to "Background".
> I just copied the format from the "Tab" declaration as you had suggested.
This one I want formatted, it's harder to read as one line.
> What do you mean by: remove "Str"?
e.g. footerStrLeft, change to footerLeft
```

```
> I have used "BG" for consistency with the setting in the standard
 > printSettings object.
We don't need or particularly want consistency with internal interfaces. The point here is to make the
webextension interface more readable.
> > Is it after the dialog is closed, or once the PDF is completely saved?
> At present, it is after the dialog is closed.
> I could add a printProgressListener(), which is what I do in my original
> Print Edit add on, but it is quite a lot of code. If we do this, there would > be an additional error state ("save failed") to pass back in ExtensionError.
That could be nice, but not necessary at this point. I just want to be sure the behavior is documented.
>> Probably should just skip the promptservice and return an error. I'm also still a bit torn between the use
of a string
>> returned for an error vs. ExtensionError, thinking about it more.
> For consistency with printPreview(), I think we should just skip the
> promptservice and call ExtensionError with the strings "cannot save file" or
> "cannot replace file" in the error cases.
preferably just simple strings.
Flags: needinfo?(mixedpuppy@gmail.com)
Comment hidden (mozreview-request)
                                                                                                                            +
Comment hidden (mozreview-request)
                                                                                                                             +
     dw-dev ▼ (Assignee)
                                                                                                                      Reply
     Comment 44 • 2 months ago
A quick commentary on Patch 3;
1. All of the suggested changes have been addressed in Patch 3.
2. My testing indicates that ExtensionError does not update the value of browser.runtime.lastError and does not
provide any feedback to the calling add-on.
3. printPreview() - Now uses ExtensionError. This feels right, because printPreview() should always work, and
so any failure is a browser error. I am slightly concerned that there is no feedback to the calling add-on, but
in practice this is probably not a big issue.
4. saveAsPDF() - I no longer think that using ExtensionError is appropriate, because it does not provide any
feedback to the calling add-on. My Print Edit WE add-on definitely needs to know the result of the save
operation, and so I have decided to retain the callback 'status' parameter. The five status values are now: 'Saved', 'Replaced', 'Not saved', 'Not replaced' and 'Cancelled'. I could collapse this to just three status
'Saved', 'Replaced', 'Not saved', 'Not replaced' and 'Cancelled'. I could collaps values: 'Saved', 'Failed' and 'Cancelled' - but I think this would be less useful.
5. The test file has been updated to check that 'window.gInPrintPreviewMode' is true when the printPreview()
callback is called.
6. eslint has been run on all changed files. The test file passes all tests.
7. A build with Patch 3 works correctly with Print Edit WE 19.0b3 (see attachment).
Flags: needinfo?(mixedpuppy@gmail.com)
                                                                                                                      Reply
     dw-dev ▼ (Assignee)
     Comment 45 • 2 months ago
Created attachment 8876521 [details]
Print Edit WE 19.0b3 with calls to print(), printPreview() and saveAsPDF()
     dw-dev (Assignee)
     Updated • 2 months ago
Attachment #8875888 - Attachment is obsolete: true
```

```
Reply
 Shane Caraveo (:mixedpuppy) 🔻
Comment 46 • a month ago
The error is normalized depending on how you use the api. Something like this:
chrome.api.foo(args, () => {
  runtime.lastError is set
browser.api.foo(args).then(() => { success }, error => { });
Flags: needinfo?(mixedpuppy@gmail.com)
🜌 Shane Caraveo (:mixedpuppy) 🔻
                                                                                                             Reply -
     Comment 47 • a month ago
 mozreview-review
Comment on attach
                   ent 8876520 [details]
Bug 1269300 Patch 3;
https://reviewboard.mozilla.org/r/147848/#review154072
I think this is looking fine now, last change request is to bring it a little more inline with how we're writing
tests these days.
::: browser/components/extensions/test/browser/browser_ext_tabs_printPreview.js:22
(Diff revision 1)
            browser.tabs.printPreview(() => {
              browser.test.assertTrue(true, "print preview callback function called");
> +
> +
              browser.test.notifyPass("tabs.printPreview");
> +
            });
         });
> +
       },
background: async function() {
  let tabs = await browser.tabs.query({....})
  await browser.tabs.printPreview()
  browser.test(...)
  browser.test.notifyPass(...)
});
Attachment #8876520 - Flags: review?(mixedpuppy@gmail.com) → review+
     dw-dev ▼ (Assignee)
                                                                                                             Reply -
     Comment 48 • a month ago
(In reply to Shane Caraveo (:mixedpuppy) from comment #46)
> The error is normalized depending on how you use the api. Something like
> this:
  chrome.api.foo(args, () => {
    runtime.lastError is set
> })
> browser.api.foo(args).then(() => { success }, error => { });
I have just re-tested ExtensionError by modifying saveAsPDF() in ext-tabs.js as follows:
    try {
      let fstream = Cc["@mozilla.org/network/file-output-stream;1"].createInstance(Ci.nsIFileOutputStream);
      fstream.init(picker.file, 0x2Ă, 0x1B6, 0); // write|create|truncate, file permissions rw-rw-rw- = 0666 =
0x1B6
      fstream.close(); // unlock file
      throw new ExtensionError("Save as PDF failed");
      resolve(retval == 0 ? "Not saved" : "Not replaced");
      return:
and then calling saveAsPDF() from Print Edit WE as follows:
    chrome.tabs.saveAsPDF(pageSettings,
    function(status)
    {
```

```
console.log(status);
   if (chrome.runtime.lastError) console.log(chrome.runtime.lastError.message);
});

For the saved or replaced cases, the console shows "Saved" or "Replaced".

For the not saved or not replaced cases, the console shows "Error: Save as PDF failed" which is logged by ExtensionError, but does NOT show "Save as PDF failed" which should be logged by the call in Print Edit WE if chrome.runtime.lastError != null.
```

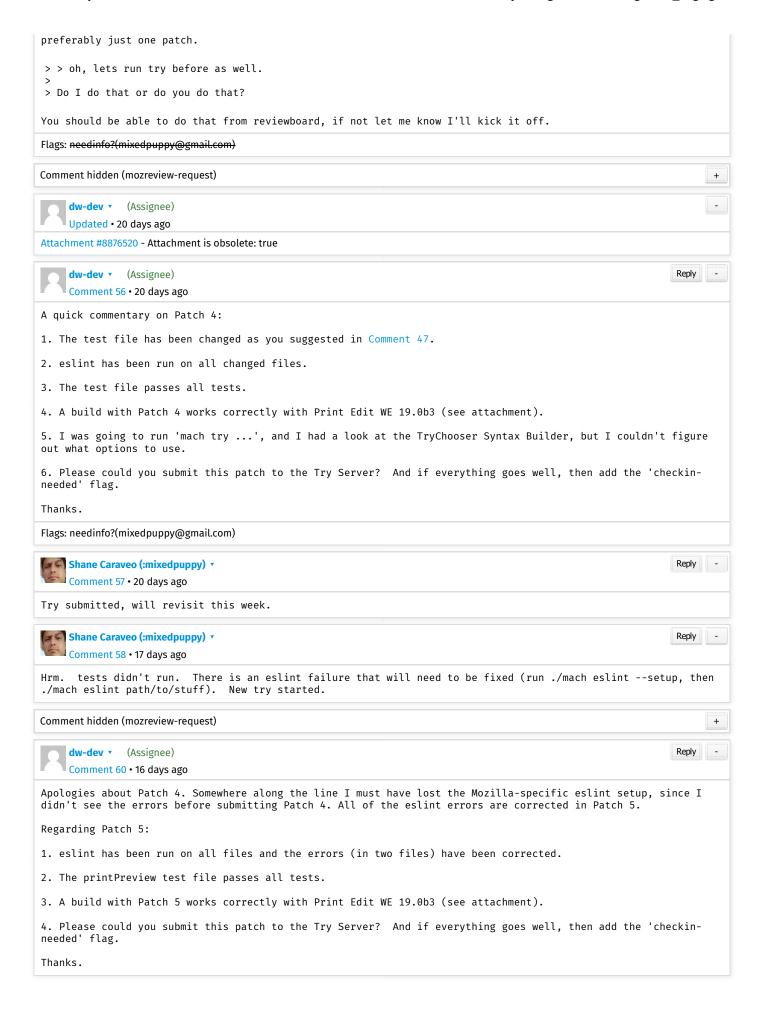
```
Reply
    dw-dev ▼ (Assignee)
    Comment 49 • a month ago
(In reply to Shane Caraveo (:mixedpuppy) from comment #47)
> Comment on attach
                     ent 8876520 [details]
> Bug 1269300 Patch 3;
> https://reviewboard.mozilla.org/r/147848/#review154072
> I think this is looking fine now, last change request is to bring it a
> little more inline with how we're writing tests these days.
> browser/components/extensions/test/browser/browser_ext_tabs_printPreview.js:
> 22
> (Diff revision 1)
> > +
              browser.tabs.printPreview(() => {
               browser.test.assertTrue(true, "print preview callback function called");
> > +
                browser.test.notifyPass("tabs.printPreview");
> > +
              });
  > +
           });
> > +
>
  background: async function() {
    let tabs = await browser.tabs.query({....})
    await browser.tabs.printPreview()
    browser.test(...)
    browser.test.notifyPass(...)
>
> });
My understanding that the review has been granted. That's great!
Does this change need to be made before uploading this patch?
Presumably browser.test(...) should still be browser.test.assertTrue(...) ?
How do I upload this patch so that it ends up in Nightly 56.0a1 ?
Flags: needinfo?(mixedpuppy@gmail.com)
```

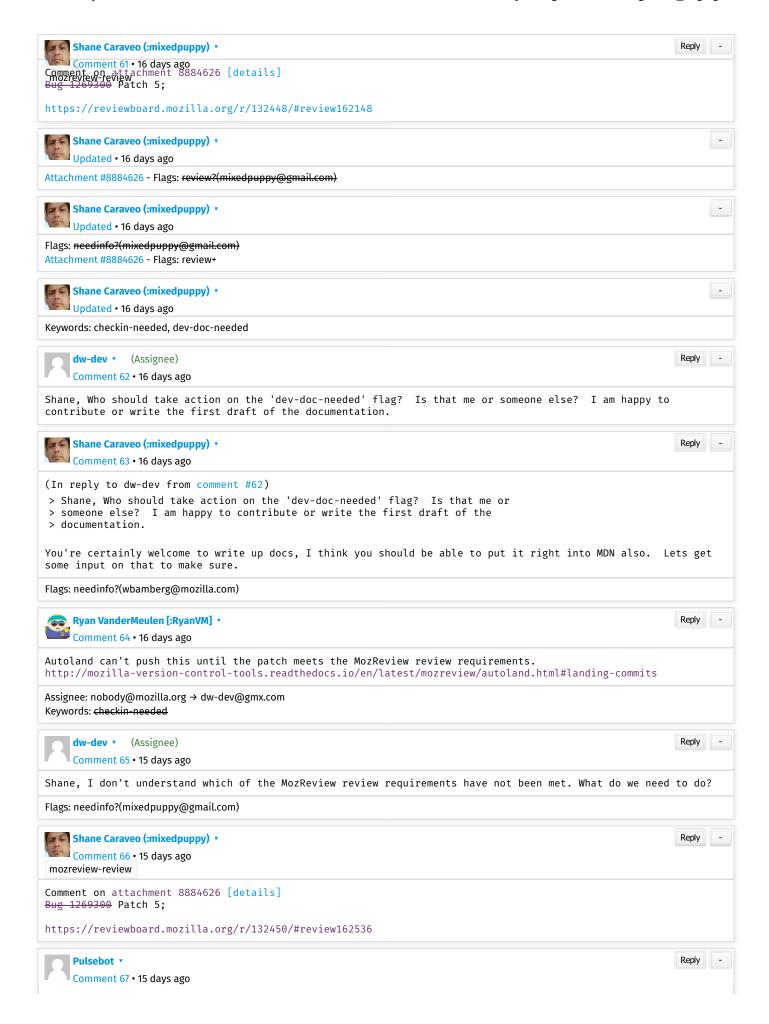
Shane Caraveo (:mixedpuppy)
Comment 50 • a month ago

(In reply to dw-dev from comment #49)

```
> (In reply to Shane Caraveo (:mixedpuppy) from comment #47)
  > Comment on attachment 8876520 [detail
> > Bug 1269300 Patch 3;
> https://reviewboard.mozilla.org/r/147848/#review154072
>
> > I think this is looking fine now, last change request is to bring it a
>> little more inline with how we're writing tests these days.
> >
>
  > :::
>> browser/components/extensions/test/browser/browser ext tabs printPreview.js:
> > 22
>
  > (Diff revision 1)
> > > +
                browser.tabs.printPreview(() => {
> > > +
                  browser.test.assertTrue(true,"print preview callback function called");
                  browser.test.notifyPass("tabs.printPreview");
> > > +
>
  > > +
                });
              });
>
  > > +
            },
>
  > > +
>
>
  > background: async function() {
      let tabs = await browser.tabs.query({....})
> >
       await browser.tabs.printPreview()
>
      browser.test(...)
> >
      browser.test.notifyPass(...)
> > });
> My understanding that the review has been granted. That's great!
> Does this change need to be made before uploading this patch ?
Yes, per my comment. I think we should also understand the error issue first. I was about to look at that
more.
> Presumably browser.test(...) should still be browser.test.assertTrue(...) ?
yes, I was just overly illustrating where you can use await.
So lets async'ify the test, verify the error stuff, once that's done you can add checkin-needed to the keywords
field.
Also for sake of clarity, remove the two older patches from reviewboard. You should be able to do that from the
review summary page in one of the menus.
Flags: needinfo?(mixedpuppy@gmail.com)
                                                                                                             Reply
 Shane Caraveo (:mixedpuppy) 🔻
    Comment 51 • a month ago
oh, lets run try before as well.
                                                                                                             Reply
     dw-dev ▼ (Assignee)
    Comment 52 • a month ago
With regards to the runtime.lastError issue, I know the chrome.tabs and chrome.windows API's very well from the
add-on calling side, and I have encountered a lot of the errors returned in runtime.lastError.
Looking at the source in ext-tabs.js and ext-windows.js, it appears that in all cases the errors are notified in
runtime.lastError by rejecting a promise.
For example, in windows.create():
    return Promise.reject({message: "`tabId` may not be used in conjunction with `url`"});
    dw-dev ▼ (Assignee)
    Updated • a month ago
Attachment #8860457 - Attachment is patch: true
Attachment #8860457 - Attachment mime type: text/x-review-board-request → text/plain
     dw-dev (Assignee)
    Updated • a month ago
Attachment #8860457 - Attachment is obsolete: true
```

```
Attachment #8860457 - Attachment is patch: false
Attachment #8860457 - Flags: review?(kmaglione+bmo@mozilla.com)
     dw-dev (Assignee)
    Updated • a month ago
Attachment #8876519 - Attachment is obsolete: true
    dw-dev ▼ (Assignee)
                                                                                                             Reply -
    Comment 53 • a month ago
(In reply to Shane Caraveo (:mixedpuppy) from comment #50 and comment #51)
> So lets async'ify the test,
OK.
> verify the error stuff,
I found this statement by Andy McKay in the Mozilla Add-ons Blog:
(https://blog.mozilla.org/addons/2016/03/11/webextensions-in-firefox-47)
"All asynchronous methods which accept a callback function will now return a Promise if no callback is passed.
These promises resolve at the same time a callback would normally be called, and reject with the value of
lastError in cases where that would otherwise be set."
In any case, I think that the callback 'status' parameter is a much better better way of returning the outcome
of tabs.saveAsPDF.
No change proposed.
> once that's done you can add checkin-needed to the keywords field.
Before doing that, I assume I will have to submit Patch 4 with the async'ify test changes?
Can I just submit an incremental Patch 4 (make and test changes, hg commit, hg push review) or do I have to back
out Patch 3 first?
Where do I add the 'checkin-needed' flag (which keyword field)?
> Also for sake of clarity, remove the two older patches from reviewboard.
I have marked Patch 1 and Patch 2 as obsolete.
> oh, lets run try before as well.
Do I do that or do you do that?
I have read the documentation about the try server, but I am slightly concerned that I could mess up my
Flags: needinfo?(mixedpuppy@gmail.com)
 Shane Caraveo (:mixedpuppy) 🔻
                                                                                                            Reply
    Comment 54 • a month ago
Sorry for the delayed response.
(In reply to dw-dev from comment #53)
> (In reply to Shane Caraveo (:mixedpuppy) from comment #50 and comment #51)
> > once that's done you can add checkin-needed to the keywords field.
> Before doing that, I assume I will have to submit Patch 4 with the async'ify
> test changes?
yeah, and i'll take another peak at it, I'll add the keyword when I r+
> Can I just submit an incremental Patch 4 (make and test changes, hg commit,
> hg push review) or do I have to back out Patch 3 first?
```





```
Pushed by mixedpuppy@gmail.com:
https://hg.mozilla.org/integration/autoland/rev/19626ad14682
Patch 5; r=mixedpuppy
 😞 Ryan VanderMeulen [:RyanVM] 🔻
                                                                                                                Reply
     Comment 68 • 15 days ago
In the future, please try to use commit messages which summarize what the patch is doing.
http://mozilla-version-control-tools.readthedocs.io/en/latest/mozreview/commits.html#write-detailed-commit-
messages
 Shane Caraveo (:mixedpuppy) 🔻
                                                                                                                Reply
    Comment 69 • 15 days ago
Yeah, I just realized that as I clicked land...nooooo
Flags: needinfo?(mixedpuppy@gmail.com)
🌉 Wes Kocher (:KWierso) ▼
                                                                                                                Reply
     Comment 70 • 15 days ago
bugherder
https://hg.mozilla.org/mozilla-central/rev/19626ad14682
Status: NEW → RESOLVED
Last Resolved: 15 days ago
status-firefox56: --- → fixed
Resolution: --- → FIXED
Target Milestone: --- → mozilla56
     Caitlin Neiman (http://pronoun.is/she) •
                                                                                                                Reply
     Comment 71 • 5 days ago
Thanks so much for writing this API, dw-dev! This has been added to our recognition wiki here:
https://wiki.mozilla.org/Add-ons/Contribute/Recognition#July_2017
If you're interested in setting up a profile on mozillians.org, I would be happy to vouch for your
contributions.
Thanks again and welcome onboard!
                                                                                                                Reply
    Will Bamberg [:wbamberg] 🔻
     Comment 72 • 4 days ago
(In reply to dw-dev from comment #62)
> Shane, Who should take action on the 'dev-doc-needed' flag? Is that me or
> someone else? I am happy to contribute or write the first draft of the
> documentation.
dw-dev, sorry to be slow replying. I'm happy to write some docs for this, and I'll ask you to take a look when
I've done so.
Flags: needinfo?(wbamberg@mozilla.com)
    Will Bamberg [:wbamberg] 🔻
                                                                                                                Reply -
     Comment 73 • 14 hours ago
Created attachment 8891595 [details]
saveaspdf.zip
The saveAsPDF API isn't working for me. I've attached a sample add-on: it just adds a browser action, and has a
background script like this:
function handleClick() {
  browser.tabs.saveAsPDF({});
browser.browserAction.onClicked.addListener(handleClick);
```

In Firefox 56.0a1, when I click the browser action (say in http://eselect a name and location and choose "Save" . A file does appear wiempty.	
If I access the same feature using the browser's built-in UI: Ctrlsaved as expected.	P/select "Save As PDF" then the PDF is
Do I need to pass some different settings?	
dw-dev • (Assignee)	Reply -
Comment 74 • 22 minutes ago	
I have tried installing your saveaspdf.zip add-on in Nightly 56.0a1	on Windows 10 - and it works fine.
In my Print Edit WE add-on beta version I use:	
<pre>var pageSettings = {};</pre>	
<pre>pageSettings.orientation = 0;</pre>	
<pre>pageSettings.scaling = 1.0; pageSettings.shrinkToFit = false;</pre>	
pageSettings.showBackgroundColors = true;	
<pre>pageSettings.showBackgroundImages = true;</pre>	
<pre>browser.tabs.saveAsPDF(pageSettings,function(status) { });</pre>	
It occurs to me that this issue may be operating system specific.	
Which operating system are you using?	
Flags: needinfo?(wbamberg@mozilla.com)	
kernp25 v	Reply -
Comment 75 • 4 minutes ago	
I have tested the add-on "saveaspdf.zip" and it was working fine fo	r me.
Add Comment Preview	
And Comment	
Needinfo requested from wbamberg@mozilla.com.	Comments Subject to Etiquette and Contributor Guideline
Need more information from other	
Save Changes	
	Ton ↑ Format Rug A New/Clone Rug A