

# Firefox for Android (a.k.a. Fennec)

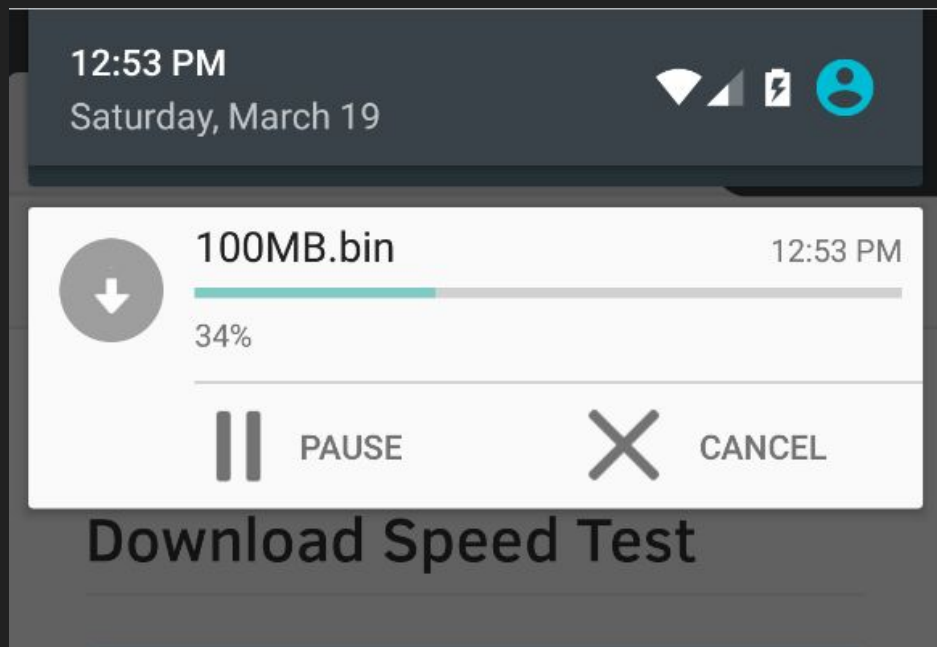
Petr Marek

FEL CTU  
A4M35OSP  
2015/2016



# Bug #1111663 [lang=js] [good first bug]

Bug 1111663 - [JavaScript Error: "TypeError: button.onClicked is not a function" {file: "resource://gre/modules/Notifications.jsm" line: 236}]



Communication with mentor (bugzilla)

Bugzilla will undergo site maintenance on Saturday, March 26th, at 9:00 AM PDT (4:00 PM UTC) for a period of two hours. The site may be unavailable during this time.

Bug 1111663 - JavaScript error: "TypeError: button.onClicked is not a function" [file: "resource://gre/modules/Notifications.jsm" line: 236] (edit)

Status: **NEW** (edit)

Whiteboard: [lang=js][good first bug]

Keywords: regression

Product: **Firefox for Android** (show info)

Component: **General** (show other bugs) (show info)

Version: **35 Branch**

Platform: **All** (Android)

Importance: **normal** (vote)

Target Milestone: ---

Assigned To: **Petr Marek** (edit)

QA Contact: (edit) (take)

Mentors: **Margaret Leibovic**  
Wesley Johnston (wesj) (edit)

URL:

Depends on:

Blocks: **604498** (edit)  
Show dependency tree / graph

What do these fields mean?

#### Attachments

- Screen Shot 2016-03-15 at 23:38:25.png** (130.55 KB, image/png)  
2016-03-15 15:38 PDT, Petr Marek (edit)
- bug\_1111663\_vS.patch** marekp1: review? (margaret.leibovic) Details | Diff | Review (1.12 KB, patch)  
2016-03-18 13:04 PDT, Petr Marek (edit)
- Add an attachment (proposed patch, testcase, etc.) [Show Obsolete \(5\)](#) [View All](#)

#### Summon comment box

#### User Story

- Margaret Leibovic** - 2014-12-15 09:08:39 PST [Description](#) [\[reply\]](#) [-]
- I saw this error in the console. It looks like this line should use 'onButtonClicked':  
`http://hg.mozilla.org/mozilla-central/annotate/a25d683f8385/mobile/android/modules/Notifications.jsm#l236`  
fedepaol or wesj, is there a test for this, or a good way to test this?
- Flags: needinfo(wjohnston@mozilla.com)  
Flags: needinfo(fedepaol@gmail.com)
- Federico Paolinelli** - 2014-12-16 16:40:57 PST [Comment 1](#) [\[reply\]](#) [-]
- Isn't it fixed by this  
`https://hg.mozilla.org/mozilla-central/rev/1ab5f84fa165#l3.13` ?
- The problem was that the button object passed to the notification api does not have a onClicked callback anymore since click events are handled by those handled objects.
- The way to test would be just to click on a button of the download notification (ie pause or resume).
- Flags: needinfo(fedepaol@gmail.com)
- Margaret Leibovic** - 2014-12-16 16:52:22 PST [Comment 2](#) [\[wrap\]](#) [\[reply\]](#) [-]
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> Isn't it fixed by this  
> `https://hg.mozilla.org/mozilla-central/rev/1ab5f84fa165#l3.13` ?
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# with mentor (bugzilla)

gzzilla@Mozilla

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Version: 35 Branch

Platform: All (Android)

Importance: normal (vote)

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Mentors: Margaret Leibovic Wesley Johnston (wesj) (edit)

URL: \_\_\_\_\_

Depends on: \_\_\_\_\_

Blocks: 499498 (edit)

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Not necessarily, if `onClicked` is defined, but not a function. I actually saw this while a patch applied.

> The problem was that the button object passed to the notification api does not have an `onClicked` callback anymore since click events are handled by those handled objects.

Could you point me to the code which does this? I'm confused about which ends up with an `onClicked` property in the first place, since I don't see us setting that anywhere in the tree.

Margaret Leibovic - 2014-12-16 17:01:30 PST

Ah, I did some digging, and it looks like this is a regression from `bug-1084495`.

`https://hg.mozilla.org/mozilla-central/rev/6ee33ba17b5`

Keywords: regression

Blocks: 499498

No longer blocks: 499992

Wesley Johnston (wesj) - 2014-12-19 10:24:24 PST

Comment 4 [reply] [-]

We probably just need a check for this method (in order to maintain backwards compat in this API. We should put some error logging in here to notify people of the deprecated API as well (and then we can deprecate it).

Flags: needinfo(wjohnston@mozilla.com)

Mentor: wjohnston@mozilla.com

Margaret Leibovic - 2015-01-30 08:42:47 PST

Whiteboard: [lang:js] -> [lang:js]good first bug

Petr Marek - 2016-03-07 06:29:14 PST

Comment 5 [reply] [-]

Hi, can I take this as my first bug fix?

Flags: needinfo(margaret.leibovic@gmail.com)

Margaret Leibovic - 2016-03-07 07:38:43 PST

Comment 6 [wrap] [reply] [-]

(In reply to Petr Marek from comment #5)

> Hi, can I take this as my first bug fix?

Sure, go for it! If you don't have a build set up yet, you should follow instructions here: `https://developer.mozilla.org/en-US/docs/Mozilla/Developer_guide/Build_Instructions/Simple_Firefox_for_Android_build`

Next, you should try to reproduce this error locally to understand what's going on

After that, you should write a patch with the fix suggested above, and attach it to this bug for review: `https://developer.mozilla.org/en-US/docs/Mercurial/Using_Mercurial#How_can_I_generate_a_patch_for_somebody_else_to_check-in_for_me.3F`

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Petr Marek - 2016-03-07 13:25:48 PST

Comment 7 [wrap] [reply] [-]

(In reply to Margaret Leibovic from comment #6)

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OK I'm in. I'm setting it all up, I'll let know my progress. thx

Petr Marek - 2016-03-09 03:35:22 PST

Comment 8 [reply] [-]

I've followed (frontend build) `https://developer.mozilla.org/en-US/docs/Mozilla/Developer_guide/` but I have troubles to build it. Complete output of `./mach build, .mozconfig` and `.hgrc` is here: `http://pastebin.com/eTjyJr8q`.

Can you please navigate where I should start to resolve this issue (mozilla wiki, known issues...)?

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It's not immediately obvious to me what your build problem is. You should join #mobile on `irc.mozilla.org` for realtime help debugging your build issue.

illa)

bugzilla@mozilla.com

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Version: 35 Branch (v)

Platform: All (v) (Android) (v)

Importance: normal (v) (vote)

Target Milestone: --- (v)

Assigned To: Petr Marek (edit)

QA Contact: (edit) (take)

Mentors: Margaret Leibovic (v) Wesley Johnston (wesj) (v) (edit)

URL: [ ]

Depends on: [ ]

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Not necessarily, if onClicked is defined, but not a function. I actually saw this while a patch applied.

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Could you point me to the code that does this? I'm curious property in the first place. I don't see it as a regression.

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Hi, I did some digging, and it looks like this is a regression. I'm not sure if it's a bug or a change in behavior.

Wesley Johnston (wesj) - 2014-12-19 10:24:24 PST

We probably just need a check for this method (in order to not get some error logging in here to notify people of the regression).

Flags: needinfo?(wjohnston@mozilla.com)

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Next, you should try to reproduce this error locally in a clean build.

After that, you should write a patch with the fix suggested in the comment above.

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> attach it to this bug for review: [https://developer.mozilla.org/en-US/docs/Mozilla/Developer\\_guide/Build\\_Instructions/Simple\\_Firefox\\_for\\_Android\\_build#next\\_steps](https://developer.mozilla.org/en-US/docs/Mozilla/Developer_guide/Build_Instructions/Simple_Firefox_for_Android_build#next_steps)

> Using Mercurial/How can I generate a patch for some file in the repo?

OK I'm in. I'm setting it all up, I'll let you know my progress.

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These are the docs I normally encourage people to follow: [https://developer.mozilla.org/en-US/docs/Mozilla/Developer\\_guide/Build\\_Instructions/Simple\\_Firefox\\_for\\_Android\\_build](https://developer.mozilla.org/en-US/docs/Mozilla/Developer_guide/Build_Instructions/Simple_Firefox_for_Android_build)

It's not immediately obvious to me what your build process is, so I can't help debugging your build issue.

Flags: needinfo?(margaret.leibovic@gmail.com)

Petr Marek - 2016-03-10 17:02:33 PST

My issue with build was because of the exFAT drive I cloned the repo on. Main indicator that something wasn't right was repo's size 5661. There was a problem with symlink creation and build silently crashed. Now on OS X Extended drive it looks OK (4.56GiB), run OK.

Petr Marek - 2016-03-13 09:45:15 PDT

Created attachment 8720984 [details] [diff] [review]

patch for Bug 111663

I added suggested tests whether is it a function for both properties (button.onClicked, button.onButtonClicked). Adding log message was also suggested, but I only found this way to log, not sure that this is suitable for deprecation warning (or other type?): "Services.console.logStringMessage(msg)". Is there a convention for log messages format?

Tlx for your review.

Attachment 8720984 - Flags: review-

Margaret Leibovic - 2016-03-14 07:34:06 PDT

Comment on attachment 8720984 [details] [diff] [review]

patch for Bug 111663

You should request review from a reviewer, not set review+ yourself. In the case, I'm an appropriate reviewer.

Attachment 8720984 - Flags: review+ (margaret.leibovic@gmail.com)

Petr Marek - 2016-03-14 10:46:15 PDT

Yes, sorry, I did not fully understand that flag. So, will you give me a feedback?

Margaret Leibovic - 2016-03-14 14:45:27 PDT

Comment on attachment 8720984 [details] [diff] [review]

patch for Bug 111663

Review of attachment 8720984 [details] [diff] [review]:

-----

```

::: mobile/android/modules/Notifications.jsm
@@ +240,5 @@
> +         if(button.onClicked instanceof Function){
> +             button.onClicked(id, notification._cookie);
> +         }
> +         if(button.onButtonClicked instanceof Function) {
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```

It's been a while since I've looked at this code... can you remind me where this 'onButtonClicked' method comes from? Is that something that add-on authors declare? I don't see this defined anywhere in the tree.

Margaret Leibovic - 2016-03-15 10:39:11 PDT

Flags: needinfo?(marek11@fel.cvut.cz)

Petr Marek - 2016-03-15 15:38:59 PDT

Created attachment 8730949 [details]

Screen Shot 2016-03-15 at 23:18:25.png

(In reply to Margaret Leibovic from comment #14)

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Actually you mentioned it in the first comment of this bug so I supposed that should be a check for this method. As I looked at the code, it does not seem that this 'onButtonClicked' method is used. Please see the attachment. In the screenshot there is an output of the 'Find in path..' for this method. I think that the relevant code here is only my check for method existence and line 'onButtonClicked: ignoreEvent(context, "notifications.onButtonClicked")' which does not make much sense to me as I don't know the code base. Maybe the method is actually ignored or left in the code base for compatibility reasons as mentioned Federico Paolinelli?

Flags: needinfo?(marek11@fel.cvut.cz) needinfo?(margaret.leibovic@gmail.com)

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Can you please navigate where I should start to resolve this?

Flags: needinfo(margaret.leibovic@gmail.com)

Margaret Leibovic - 2016-03-10 09:05:13 PST

(In reply to Petr Marek from comment #8)

> I've followed (frontend build) [https://developer.mozilla.org/en-US/docs/Mozilla/Developer\\_guide/Build\\_Instructions/Simple](https://developer.mozilla.org/en-US/docs/Mozilla/Developer_guide/Build_Instructions/Simple)

> > Can you please navigate where I should start to resolve this, known issues...?

These are the docs I normally encourage people to follow: [https://developer.mozilla.org/en-US/docs/Mozilla/Developer\\_guide/Build\\_Instructions/Simple](https://developer.mozilla.org/en-US/docs/Mozilla/Developer_guide/Build_Instructions/Simple)

It's not immediately obvious to me what your build process for realtime help debugging your build issue.

Wesley Johnston (wesj) - 2016-03-10 17:02:33 P

My issue with build was because wasn't right was repo's size! Now on OS X Extended drive it works.

Created attachment 8720984 [details] patch for Bug 111663

I added suggested tests whether `button.onButtonClicked`. Adding this is suitable for deployment as there is a convention for logging for your review.

Attachment #8720984 - Flags: review-

Margaret Leibovic - 2016-03-14 07:04:07 P

Comment on attachment 8720984 patch for Bug 111663

You should request review from reviewer.

Attachment #8720984 - Flags: review-

Petr Marek - 2016-03-14 10:46:15 P

Yes, sorry, I did not fully understand.

Margaret Leibovic - 2016-03-14 10:46:15 P

Comment on attachment 8720984 patch for Bug 111663

Review of attachment 8720984

```

::: mobile/android/modules/Notification.jsm
@@ +240,5 @@
+         if(button.onClicked instanceof Function){
+             button.onClicked(id, notification_cookie);
+         }
+         if(button.onButtonClicked instanceof Function){
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Looking at the code, it looks like I probably made a typo and meant to say 'onButtonClick'.

I understand that you're not familiar with the codebase, but it's been a long time since I've looked at this myself. Part of the job of fixing a bug is diving in to take a look around and justify the change you made.)

It's been a while since I've looked at this code... can you remind me where this 'onButtonClicked' method comes from? Is that something that add-ons authors declare? I don't see this defined anywhere in the tree.

Actually you mentioned it in the first comment of this bug so I supposed that should be a check for this method. As I looked at the code, it does not seem that this 'onButtonClicked' method is used.

Please see the attachment. In the screenshot there is an output of the 'Find in path...' for this method. I think that the relevant code here is only my > check for method existence and line 'onButtonClicked: ignoreEvent(context, "notifications.onButtonClicked")' which does not make much sense to me as I don't know the code base. Maybe the method is actually ignored or left in the code base for compatibility reasons as mentioned Federico Paolinelli?

Looking at the documentation, I see that 'onClick' and 'onButtonClick' are actually two different supported notification handler methods: [https://developer.mozilla.org/en-US/Add-ons/Firefox\\_for\\_Android/API/Notifications.jsm](https://developer.mozilla.org/en-US/Add-ons/Firefox_for_Android/API/Notifications.jsm)

And you can see how we use them in [DownloadNotifications.jsm#148](http://mxr.mozilla.org/mozilla-central/source/mobile/android/modules/DownloadNotifications.jsm#148)

Spending even more time thinking about this code and the documentation, I'm not even sure why we have this `button.onClicked` call at all here... seems like it should be removed.

(In reply to Margaret Leibovic from comment on attachment 8720984 patch for Bug 111663)

Review of attachment 8720984

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Flags: needinfo(marek11@fel.cvut.cz)

(In reply to Petr Marek from comment #7)

> Created attachment 8730949 [details]

> Screen Shot 2016-03-15 at 23.18.25.png

> (In reply to Margaret Leibovic from comment #14)

> > Comment on attachment 8720984 [details] [diff] [review]

> > patch for Bug 111663

> > Review of attachment 8720984 [details] [diff] [review]:

```

::: mobile/android/modules/Notifications.jsm
@@ +240,5 @@
+         if(button.onClicked instanceof Function){
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And you can see how we use them in [DownloadNotifications.jsm#148](http://mxr.mozilla.org/mozilla-central/source/mobile/android/modules/DownloadNotifications.jsm#148)

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Review of attachment 8720984

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Flags: needinfo(marek11@fel.cvut.cz)

Attachment #8720984 - Flags: review?(margaret.leibovic@gmail.com) -> review-

Comment 17 [wrap] [reply] [-]

Attachment #8720984 - Flags: review?(margaret.leibovic@gmail.com) -> review-

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Attachment #8720984 - Flags: review?(margaret.leibovic@gmail.com) -> review-





gql@mozilla

Home New Browse Search [ ] [Search] [help] Reports My Dashboard Product Dashboard

Bugzilla will undergo site maintenance on Saturday, March 26th, at 9:00 AM PDT (4:00 PM UTC) for a period of two hours.

Bug 111663 - JavaScript error: "TypeError: button.onClicked is not a function" [file: "resource://gre/modules/Notification...]

Status: NEW (edit)

Whiteboard: [lang=js][good first bug]

**Petr Marek** - 2016-03-16 15:58:49 PDT  
(In reply to [Margaret Leibovic](#) from comment #17)  
> Comment on attachment 8720984 [details] [diff] [review]  
> patch for Bug 111663  
> Review of attachment 8720984 [details] [diff] [review]:  
-----  
>>> mobile/android/modules/Notifications.jsm  
>> @@ +231,4 @@  
>> });  
>> }  
>> if (notification && !notification.\_buttons) {  
>> }  
>> You can remove this and everything below it in this case statement.

I looked at the code and documentation closely and for pre 33 there are 'aOptions.onClicked' methods. If I understand correctly these could be defined precisely as proposed; that id should 'onClick(id, cookie)' and 'onCancel(id, cookie)' as it is used like that (at least 'onCancel' in case 'notification-closed').

So I proposed new patch considering this. But if I should rather remove the update documentation that 'onCancel' and 'onClick' from options are not used 'notification-closed' should be also modified ino.

Flags: needinfo?(margaret.leibovic@gmail.com)

**Petr Marek** - 2016-03-16 16:00:07 PDT  
Created attachment 8731460 [details] [diff] [review]  
bug\_111663\_v2.patch

Flags: needinfo?(margaret.leibovic@gmail.com)

**Margaret Leibovic** - 2016-03-17 08:21:07 PDT  
(In reply to [Petr Marek](#) from comment #18)  
> (In reply to [Margaret Leibovic](#) from comment #17)  
>> Comment on attachment 8731460 [details] [diff] [review]  
>> patch for Bug 111663  
>> Review of attachment 8731460 [details] [diff] [review]:  
-----  
>>> mobile/android/modules/Notifications.jsm  
>> @@ +231,4 @@  
>> });  
>> }  
>> if (notification && !notification.\_buttons) {  
>> }  
>> You can remove this and everything below it in this case statement.

I looked at the code and documentation closely and for pre 33 there are 'aOptions.onCancel' and 'aOptions.onClicked' methods. If I understand correctly these could be defined. In documentation I don't see precise format proposed; that id should 'onClick(id, cookie)' and 'onCancel(id, cookie)' as it is used like that (at least 'onCancel' in case 'notification-closed').

So I proposed new patch considering this. But if I should rather remove that from options are not used anymore I will do it. But case 'notification-closed' should be also modified ino.

As the documentation says, this is for old versions of Firefox (before 33), so this is deprecated. Let's remove it.

**Petr Marek** - 2016-03-17 12:00:45 PDT  
Created attachment 8731827 [details] [diff] [review]  
onClick removed

Not necessarily, if onClicked patch applied.

> The problem was that the button.onClicked call was to those handled objects.

Could you point me to the property in the first patch?

**Margaret Leibovic** - 2016-03-17 12:00:45 PDT  
Ah, I did some digging, and https://hg.mozilla.org/mozilla-central/rev/909449e No longer blocks: 909449e

**Petr Marek** - 2016-03-18 07:24:51 PDT  
Created attachment 8732162 [details] [diff] [review]  
bug\_111663\_v4.1.patch

Not sure how should I correctly combine my consequent (read bunch of mozilla docs), created with cmd: hg diff -r bug\_111663.patch -r bug\_111663\_v2.patch -r bug\_111663\_v3.patch > bug\_111663\_v4.1.patch

Attachment #8732162 - Flags: review?(margaret.leibovic@gmail.com)

**Petr Marek** - 2016-03-18 07:26:05 PDT  
Created attachment 8732168 [details] [diff] [review]  
bug\_111663\_v4.2.patch

Not sure how should I correctly combine my consequent (read bunch of mozilla docs), created with cmd: hg export --output bug\_111663\_v4.2.patch -r bug\_111663.patch -r bug\_111663\_v2.patch -r bug\_111663\_v3.patch

Attachment #8732168 - Flags: review?(margaret.leibovic@gmail.com)

**Margaret Leibovic** - 2016-03-18 09:25:10 PDT  
The goal is to make a single diff file that shows the difference between the mozilla-repo tree you pulled, and the changes you want to make. As you can see from the files you attached, that's not the case for those files.

I'm not sure what your tree looks like, so it's hard to give exact steps for you to create this patch. Did you use hg commit to make commits? Or are you using mercurial queues? If the former, you can use the histedit extension to fold commits together. If the latter, you should look up the qfold command.

**Margaret Leibovic** - 2016-03-18 09:25:47 PDT  
Attachment #8732168 - Flags: review?(margaret.leibovic@gmail.com)

**Margaret Leibovic** - 2016-03-18 09:26:23 PDT  
Comment on attachment 8732162 [details] [diff] [review]  
bug\_111663\_v4.1.patch

Review of attachment 8732162 [details] [diff] [review]:  
-----  
::: mobile/android/modules/Notifications.jsm  
@@ -242,5 @@  
> > }  
> > if(button.onButtonClicked instanceof Function) {  
> > button.onButtonClicked(id, notification.\_cookie);  
> > }  
> > }

Apologies, I only looked at the second commit, this one actually looks like it's doing the right thing.

Attachment #8732162 - Flags: review?(margaret.leibovic@gmail.com) - review+

**Margaret Leibovic** - 2016-03-18 09:27:09 PDT  
Attachment #8732168 - Attachment is obsolete: true

**Margaret Leibovic** - 2016-03-18 09:27:19 PDT  
Attachment #8731827 - Attachment is obsolete: true

**Margaret Leibovic** - 2016-03-18 09:28:48 PDT  
You should generate a patch with an appropriate commit message, then attach that to the patch to get checked in. Here are details about how to do that: https://developer.mozilla.org/en-US/docs/Mercurial/Using\_Mercurial#How\_can\_I\_generate\_a\_patch\_for\_somebody\_else\_to\_check-in\_for\_me.3F

You should also mark old versions of patches as obsolete when you upload new ones.

Assignee: nobody@mozilla.org -> marekpt1@felcvut.cz

Comment 23 [reply] [-]

4) + [review]

[review]:

unction){  
ion.\_cookie};

ceof Function) {  
ification.\_cookie};

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ation:  
ile/android/modules/DownloadNotifications.jsm#148

and the documentation, I'm not even sure why we have this should be removed.

add-ons using Notifications.jsm, so we don't need to worry t how this is being used in our app itself.

click code from the bottom of this case statement, and o make it clearer how this module is actually used.

Comment 17 [wrap] [reply] [-]

review]

view]:

::: mobile/android/modules/Notifications.jsm  
@@ +231,4 @@  
>> });  
>> }  
>> if (notification && !notification.\_buttons) {  
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>> You can remove this and everything below it in this case statement.

Attachment #8720984 - Flags: review?(margaret.leibovic@gmail.com) - review-



# Lastest patch (release in 48.0a1)

```
bug_1111663_v5.patch [----] 0 L: [ 1+ 0 1/ 34] *(0 /1147b) 35 0x023
HG changeset patch
# User Petr Marek <marekp11@fel.cvut.cz>
# Parent 9c5d494d05485aebf3fedf649abc0e7ae9d2dcf2
Bug 1111663 - Removed calling of an obsolete onClicked method.

diff --git a/mobile/android/modules/Notifications.jsm b/mobile/android/modules/Notifications.jsm
--- a/mobile/android/modules/Notifications.jsm
+++ b/mobile/android/modules/Notifications.jsm
@@ -226,24 +226,16 @@ var Notifications = {
     break;
     case "notification-button-clicked":
       if (handlerKey) {
         _handlersMap[handlerKey].forEach(function(handler) {
           handler.onButtonClick(data.buttonId, cookie);
         });
       }

       if (notification && !notification._buttons) {
         break;
       }

       let button = notification._buttons[data.buttonId];
       if (button && button.onClicked) {
         button.onClicked(id, notification._cookie);
       }
       break;
     case "notification-cleared":
     case "notification-closed":
```

# Summary

- Successfully fixed bug
- The fix planned for release 48.0a1 (2016-08-02)
- Updated wiki page of Notification.js ([https://developer.mozilla.org/en-US/Add-ons/Firefox\\_for\\_Android/API/Notifications.jsm](https://developer.mozilla.org/en-US/Add-ons/Firefox_for_Android/API/Notifications.jsm))

## Notifications.jsm

Change Revisions

<b>Revision 993153:</b> Revision 993153 by <a href="#">wbamberg</a> on January 15, 2016 at 10:49:14 AM PST	<b>Revision 1044058:</b> Revision 1044058 by <a href="#">sancecz</a> on April 16, 2016 at 9:14:52 AM PDT
---	---

---

Title: Notifications.jsm	Notifications.jsm
Slug: Mozilla/Add-ons/Firefox_for_Android/API/Notifications.jsm	Mozilla/Add-ons/Firefox_for_Android/API/Notifications.jsm
Content:	

---

<pre>Revision 993153 n 7   {{AddonSidebar}} n 24  The API was &lt;strong&gt;changed significantly in Firefox 33&lt;/st &gt;rong&gt; to better handle situations where a Firefox is killed betwe &gt;en the time a Notification was created and when it was cancelled. &gt; The new API allows you to register a handler with the Notificati &gt;ons object at startup. The handler object is called whenever a no &gt;tification is tapped or cancelled, and passed the original cookie &gt;s object. Notifications should pass in a handlerKey when they are &gt; created to ensure the right handlers are notified when they are &gt; clicked. n 44  buttons:buttons; 45  // pre Firefox 33 you could add listeners here 46  onClick: function() { }</pre>	<pre>Revision 1044058 n 7   &lt;p&gt; 8   {{AddonSidebar}} 9   &lt;/p&gt; n 26  The API allows you to register a handler with the Notificat &gt;ions object at startup. The handler object is called whenever a n &gt;otification is tapped or cancelled, and passed the original cooki &gt;es object. Notifications should pass in a handlerKey when they ar &gt;e created to ensure the right handlers are notified when they are &gt; clicked. n 46  buttons:buttons</pre>
--	---

# Learned tips

- Do **not** clone a repo to **exFAT** filesystem
  - 4.5GiB -> 56GiB
  - No symlinks
- Use **IRC** for real-time communication
- When contributing to mozilla projects
  - learn **hg** (mercurial) a bit
    - Patch creation
    - Patch fold
    - Patch diffs