

### Issue 1196309: Security: OOB vector insertion when extension highlights tab during drag

Reported by derce...@gmail.com on Tue, Apr 6, 2021, 12:15 PM EDT

⊂⊃ Code

### **VULNERABILITY DETAILS**

When the user is dragging a tab, if an extension highlights another tab in the same tab strip, an out-of-bounds vector insertion will occur in the browser process when the user drags the tab past the last tab in the tab strip.

## VERSION

Chrome Version: Tested on 89.0.4389.114 (stable) and 91.0.4469.0 (latest asan build)

Operating System: Windows 10, version 20H2

# REPRODUCTION CASE

- 1. Install the attached extension.
- 2. Start dragging a tab in a window that has at least two tabs. When the extension detects that a tab has moved (using chrome.tabs.onMoved), it will mark one of the other tabs in the window as highlighted using the following call:

chrome.tabs.update(secondTab.id, {highlighted: true});

3. Drag the tab towards the right end of the tab strip (just past the halfway point of the last tab). This will result in an out-of-bounds vector insertion in the browser process.

Note that the demonstration is designed to make it easy to see when the issue is triggered, but an extension wouldn't necessarily have to rely on the user dragging a tab all

If you uncomment the last section in background.js, the extension will also move all the other tabs in the window to a new window (using chrome.tabs.group). That then means that dragging the active tab a little to the right will tend to trigger the issue, since there will only be two tabs left in the window (the tab being dragged and the tab the extension highlighted).

### CREDIT INFORMATION

Reporter credit: David Erceg

asan\_output\_869515.txt 13.6 KB View Download

background.is

1.9 KB View Download

manifest.json

167 bytes View Download

Comment 1 by sheriffbot on Tue, Apr 6, 2021, 12:20 PM EDT

Labels: external\_security\_report

Comment 2 by derce...@gmail.com on Tue, Apr 6, 2021, 12:20 PM EDT

The direct cause of this issue is that the to\_position value being passed to TabStripModel::MoveWebContentsAtImpl is one more than the size of the contents\_data\_ vector. That method can be found at:

https://source.chromium.org/chromium/src/+/master.chrome/browser/ui/fabs/tab\_strip\_model\_cc/l=2011/drc=50802788094d7cf18b4682924e7249a6449b3238

The to position value is then used to insert into the vector:

 $https://source.chromium.org/chromium/chromium/src/+/master:chrome/browser/ui/tabs/tab_strip\_model.cc; \\ | = 2022; \\ drc = 50802788094d7cf18b4682924e7249a6449b3238$ 

The asan log attached in the initial message indicates an out-of-bounds read. This has to do with the fact that to insert an item in the middle of a vector (which this insertion is treated as, due to the invalid iterator), libc++ first moves item forwards while traversing backwards through them.

However, because the insertion point here is past the end of the vector, the code ends up traversing back past the start of the vector (which is why the asan log indicates the read is to the left of the vector). This can then cause heap corruption, from having adjacent portions of memory overwritten.

Comment 3 by cthomp@chromium.org on Tue. Apr 6, 2021, 5:48 PM EDT

Status: Assigned (was: Unconfirmed)

Owner: dfried@chromium.org

Labels: Security\_Severity-High Security\_Impact-Stable M-89 OS-Chrome OS-Linux OS-Mac OS-Windows Pri-1

Components: UI>Browser>TabStrip

Thanks for the report and the additional investigation! This is a clever attack vector — I've previously considered other cases where an extension might be able to interact with Tab Strip lifetimes/etc. but not with the highlighting API. This does trigger an OOB write in the browser process, but it requires a malicious extension and user interaction to trigger, so I'm marking this Severity-High.

dfried@ could you take a look or help assign this to someone on the desktop UI team or chrome/browser/ui/tabs/OWNERS?

Comment 4 by cthomp@chromium.org on Thu, Apr 8, 2021, 2:21 PM EDT

Iccuse 1107146 is a similar (but different root cause) bug exploiting the interaction between the chrome tabs API and TabStrip features, from the same reporter. As mentioned there, I think we should look into doing some variant analysis here as well. Happy to coordinate Security assisting with that effort.

Comment 5 by cthomp@chromium.org on Thu, Apr 8, 2021, 5:06 PM EDT

Owner: tbergquist@chromium.org

Cc: dfried@chromium.org connily@chromium.org

Per https://bugs.chromium.org/p/chromium/issues/detail?id=1197146#c3 re-assigning this to tbergquist@. Thanks!

Comment 6 by connily@chromium.org on Tue, Apr 13, 2021, 2:01 PM EDT

Owner: collinbaker@chromium.org
Cc: tbergquist@chromium.org

Comment 7 by sheriffbot on Thu, Apr 15, 2021, 12:21 PM EDT

Labels: -M-89 M-90 Target-90

Comment 8 by sheriffbot on Tue, Apr 20, 2021, 12:21 PM EDT

collinbaker: Uh oh! This issue still open and hasn't been updated in the last 14 days. This is a serious vulnerability, and we want to ensure that there's progress. Could you please leave an update with the current status and any potential blockers?

If you're not the right owner for this issue, could you please remove yourself as soon as possible or help us find the right one?

If the issue is fixed or you can't reproduce it, please close the bug. If you've started working on a fix, please set the status to Started.

Thanks for your time! To disable nags, add the Disable-Nags label.

For more details visit https://www.chromium.org/issue-tracking/autotriage - Your friendly Sheriffbot

Comment 9 by collinbaker@chromium.org on Tue, Apr 20, 2021, 3:22 PM EDT

Owner: rdevl...@chromium.org Cc: collinbaker@chromium.org

Cc: collinbaker@cnromium.org

I can repro this with a browser test (i.e. without using an extension): https://chromium-review.googlesource.com/c/chromium/src/+/2841209

I think this is a design bug rather than an implementation bug. TabDragController assumes the tab selection does not change while dragging. Ignoring extensions, this holds true: the selection only changes (AFAIK) when the user CTRL+ or SHIFT+ clicks tabs. But this cannot happen while dragging.

I see two options here:

- Redesign TabDragController to support tab selection changes while dragging.
- 2. Block tab selection changes from chrome.tabs during dragging

(1) seems like an enormous task, with limited benefit. (2) seems much more reasonable to me.

Also, do we know how many extensions rely on modifying tab selection?

Devlin: can you give input on whether (2) is reasonable, or tag someone who'd know? I'm not sure who, if anyone, owns the chrome tabs API.

Comment 10 by rdevl...@chromium.org on Tue, Apr 20, 2021, 3:42 PM EDT

Owner: solomonkinard@chromium.org

Cc: rdevl...@chromium.org

> Also, do we know how many extensions rely on modifying tab selection?

Nope, and unfortunately, this isn't something we could easily determine

> Devlin: can you give input on whether (2) is reasonable

2) sounds very reasonable to me. Even more than just while dragging, I almost think disallowing updates to selection while any tabs are selected seems reasonable having an extension override your selection sounds kind of undesirable.

solomonkinard@, is this something you have the bandwidth to tackle?

Additional questions: Do we know if there's similar issues with moving tabs while dragging? What about if the extension either a) moves one of the selected tabs to a non-contiguous location or b) inserts a non-selected tab into a selected group? I wouldn't be surprised if we had similar badness (even if not a security bug, perhaps a functional bug or safe crash).

Comment 11 by collinbaker@chromium.org on Tue, Apr 20, 2021, 3:53 PM EDT

> Additional questions: Do we know if there's similar issues with moving tabs while dragging? What about if the extension either a) moves one of the selected tabs to a non-contiguous location or b) inserts a non-selected tab into a selected group? I wouldn't be surprised if we had similar badness (even if not a security bug, perhaps a functional bug or safe crash).

Not aware of bugs filed for these specifically, but here are similar bugs related to chrome tabs updates while dragging:

esus 1108717 (pin tag while dragging)

Issue 1197888 (duplicating a group tab while dragging)
Issue 1197446 (moving tabs between groups while dragging)

Comment 12 by solomonkinard@chromium.org on Tue, Apr 20, 2021, 3:53 PM EDT

Status: Started (was: Assigned)

Sure, I can take a look

Comment 13 by rdevl...@chromium.org on Tue, Apr 20, 2021, 5:31 PM EDT

ooh, fun! Thanks for highlighting those, collinbaker@. And thank you for all the great finds, derceg86@:

collinbaker@ + solomonkinard@, please coordinate here to make sure we don't duplicate any effort, since it seems like there are a few of these touching the same bits of

Comment 14 Deleted

Comment 15 by solomonkinard@chromium.org on Wed, Apr 28, 2021, 2:08 AM EDT

crrev.com/c/2849068

Comment 16 by Git Watcher on Thu, Apr 29, 2021, 3:28 PM EDT

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/4220923a7a20b136b61d10098975046e0f6bdaf9

commit 4220923a7a20b136b61d10098975046e0f6bdaf9

Author: Solomon Kinard <solom onkinard@chromium.org>

Date: Thu Apr 29 19:27:01 2021

[Extensions][Tabs] OOB when extension highlights tab during drag

The bug includes an existing test that was incorporated into this CL

This was tested via the included test and manually with two extensions. One extension uses tabs.update(highlighted) and the other uses tab.highlight(). Those tests haven't been included in this CL for faster turnaround.

Change-Id: I591e4111f82abb6e70567882d4eaf6c99d08ab51

riew.googlesource.com/c/chromium/src/+/2849068

Commit-Queue: Solomon Kinard <solomonkinard@chromium.org>

Reviewed-by: Peter Boström <pbos@chromium.org>

Reviewed-by: Devlin <rdevlin.cronin@chromium.org>

Reviewed-by: Collin Baker <collinbaker@chromium.org> Reviewed-by: Collin Baker <collinbaker@google.com>

Cr-Commit-Position: refs/heads/master@{#877593}

[modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/extensions/api/tabs/tabs\_api.cc

[modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/extensions/api/tabs/tabs\_constants.cc

[modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/extensions/api/tabs/tabs constants.h

[modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.cc

 $\textbf{[modify]} \ https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.h$ 

[modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/ui/tabs/tab\_strip\_model.cc

[modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/ui/tabs/tab\_strip\_model.h [modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/ui/tabs/tab\_strip\_model\_delegate.h

[modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/ui/tabs/test\_tab\_strip\_model\_delegate.cc

[modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/ui/tabs/test\_tab\_strip\_model\_delegate.h

[modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/ui/views/tabs/tab\_drag\_controller\_interactive\_uitest.cc

[modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/ui/views/tabs/tab\_strip.cc [modify] https://crrev.com/4220923a7a20b136b61d10098975046e0f6bdaf9/chrome/browser/ui/views/tabs/tab strip.h

Comment 17 by solomonkinard@chromium.org on Thu, Apr 29, 2021, 4:01 PM EDT

Status: Fixed (was: Started)

Comment 18 by solomonkinard@chromium.org on Thu, Apr 29, 2021, 4:14 PM EDT

M90 crrev.com/c/2859232 M91:crrev.com/c/2860567

Comment 19 by solomonkinard@chromium.org on Thu, Apr 29, 2021, 9:39 PM EDT

Labels: Merge-Request-91 Merge-Request-90

Comment 20 by solomonkinard@chromium.org on Thu, Apr 29, 2021, 9:40 PM EDT

Added due to preexisting labels: M-90, Target-90

Comment 21 by sheriffbot on Fri, Apr 30, 2021, 12:42 PM EDT

Labels: reward-topanel

Comment 22 by sheriffbot on Fri. Apr 30, 2021, 2:02 PM EDT Labels: -Restrict-View-SecurityTeam Restrict-View-SecurityNotify

Comment 23 by sheriffbot on Fri, Apr 30, 2021, 3:30 PM EDT

Labels: -Merge-Request-91 Hotlist-Merge-Review Merge-Review-91

This bug requires manual review: M91's targeted beta branch promotion date has already passed, so this requires manual review Before a merge request will be considered, the following information is required to be added to this bug:

- 1. Does your merge fit within the Merge Decision Guidelines?
- Chrome: https://chromium.googlesource.com/chromium/src.git/+/master/docs/process/merge\_request.md#when-to-request-a-merge
- Chrome OS; https://goto.google.com/cros-release-branch-merge-guidelines
- 2. Links to the CLs you are requesting to merge.
- 3. Has the change landed and been verified on ToT?
- 4. Does this change need to be merged into other active release branches (M-1, M+1)?
- 5. Why are these changes required in this milestone after branch?
- 6. Is this a new feature?
- 7. If it is a new feature, is it behind a flag using finch?

Chrome OS Only:

8. Was the change reviewed and approved by the Eng Prod Representative? See Eng Prod ownership by component: http://go/cros-engprodcomponents

Please contact the milestone owner if you have questions.

Owners: benmason@(Android), bindusuvarna@(iOS), kbleicher@(ChromeOS), pbommana@(Desktop)

For more details visit https://www.chromium.org/issue-tracking/autotriage - Your friendly Sheriffbot

Comment 24 by Git Watcher on Fri. Apr 30, 2021, 11:09 PM EDT

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/112a415ce3ee8252c7bc62fe68883aee101c7cc1

commit 112a415ce3ee8252c7bc62fe68883aee101c7cc1 Author: Solomon Kinard <solomonkinard@chromium.org>

Date: Sat May 01 03:08:50 2021

[Extensions][Tabs] Use IsTabStripEditable() as CanHighlight abstraction

This addresses comments on crrev.com/c/2849068. Another benefit is it starts to address one of the TODOs that pbos@ wants to look into later regarding terms like highlight and selected.

Change-Id: lcb45ab7c696056e4f4560cd424ae928a22f28482

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2860874

Reviewed-by: Karan Bhatia <karandeepb@chromium.org> Reviewed-by: Peter Boström <pbos@chromium.org>

Reviewed-by: Connie Wan <connily@chromium.org> 

[modify] https://crrev.com/112a415ce3ee8252c7bc62fe68883aee101c7cc1/chrome/browser/extensions/api/tabs/tabs\_api.cc

[modify] https://crrev.com/112a415ce3ee8252c7bc62fe68883aee101c7cc1/chrome/browser/extensions/api/tabs/tabs/constants.cc

[modify] https://crrev.com/112a415ce3ee8252c7bc62fe68883aee101c7cc1/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.cc

[modify] https://crrev.com/112a415ce3ee8252c7bc62fe68883aee101c7cc1/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.h

[modify] https://crrev.com/112a415ce3ee8252c7bc62fe68883aee101c7cc1/chrome/browser/ui/tabs/tab\_strip\_model.cc

[modify] https://crrev.com/112a415ce3ee8252c7bc62fe68883aee101c7cc1/chrome/browser/ui/tabs/tab\_strip\_model\_delegate.h

[modify] https://crrev.com/112a415ce3ee8252c7bc62fe68883aee101c7cc1/chrome/browser/ui/tabs/test\_tab\_strip\_model\_delegate.cc Imodifyl https://crrev.com/112a415ce3ee8252c7bc62fe68883aee101c7cc1/chrome/browser/ui/tabs/test tab strip model delegate.h

[modify] https://crrev.com/112a415ce3ee8252c7bc62fe68883aee101c7cc1/chrome/browser/ui/views/tabs/tab\_strip.cc

[modify] https://crrev.com/112a415ce3ee8252c7bc62fe68883aee101c7cc1/chrome/browser/ui/views/tabs/tab\_strip.h

Comment 25 by adetaylor@google.com on Mon, May 3, 2021, 11:22 AM EDT

Labels: -Merge-Request-90 -Merge-Review-91 Merge-Approved-90 Merge-Approved-91

Approving merge to M90, branch 4430, and M91 branch 4472. (My read of the comments that resulted in #c24 are that they are purely about naming, etc. and don't functionally affect the patch, so there's no need to merge the patch in #c24. Let me know if I'm reading that wrong).

Comment 26 by phommana@google.com on Tue, May 4, 2021, 7:08 AM FDT

(Bulk Edit) Your change has been approved for M91. Please go ahead and merge the CL to branch 4472 (refs/branch-heads/4472) manually asap so that it would be part of tomorrow's Beta release.

Comment 27 by solomonkinard@chromium.org on Tue, May 4, 2021, 1:18 PM EDT

We might want to consider merging in that patch and others later, but you're right that it doesn't change the behavior with or without it.

Comment 28 by sheriffbot on Thu, May 6, 2021, 12:13 PM EDT

Cc: adetaylor@google.com

This issue has been approved for a merge. Please merge the fix to any appropriate branches as soon as possible!

If all merges have been completed, please remove any remaining Merge-Approved labels from this issue.

Thanks for your time! To disable nags, add the Disable-Nags label.

For more details visit https://www.chromium.org/issue-tracking/autotriage - Your friendly Sheriffbot

Comment 29 by Git Watcher on Thu, May 6, 2021, 3:57 PM EDT

Labels: -merge-approved-90 merge-merged-4430 merge-merged-90

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/9a9dd29ee89ab56ce133080abb057971822858f4

commit 9a9dd29ee89ab56ce133080abb057971822858f4 Author: Solomon Kinard <solomonkinard@chromium.org>

Date: Thu May 06 19:55:58 2021

[M90][Extensions][Tabs] OOB when extension highlights tab during drag

The bug includes an existing test that was incorporated into this CL.

This was tested via the included test and manually with two extensions. One extension uses tabs.update(highlighted) and the other uses tab.highlight(). Those tests haven't been included in this CL for faster turnaround.

(cherry picked from commit 4220923a7a20b136b61d10098975046e0f6bdaf9)

Change-Id: I591e4111f82abb6e70567882d4eaf6c99d08ab51

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2849068

Commit-Queue: Solomon Kinard <solomonkinard@chromium.org> Reviewed-by: Peter Boström <pbos@chromium.org>

Reviewed-by: Devlin <rdevlin.cronin@chromium.org>

Reviewed-by: Collin Baker <collinbaker@chromium.org>

Reviewed-by: Collin Baker <collinbaker@google.com>

Cr-Original-Commit-Position: refs/heads/master@{#877593}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2859232

Bot-Commit: Rubber Stamper <rubber-stamper@appspot.gserviceaccount.com>

Auto-Submit: Solomon Kinard <solomonkina

Cr-Commit-Position: refs/branch-heads/4430@{#1414}

Cr-Branched-From: e5ce7dc4f7518237b3d9bb93cccca35d25216cbe-refs/heads/master@{#857950}

[modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/extensions/api/tabs/tabs\_api\_cc

[modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/extensions/api/tabs/tabs\_constants.cc [modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/extensions/api/tabs/tabs\_constants.h

[modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.cc [modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.h

[modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/ui/tabs/tab\_strip\_model.cc [modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/ui/tabs/tab\_strip\_model.h [modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/ui/tabs/tab\_strip\_model\_delegate.h [modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/ui/tabs/test\_tab\_strip\_model\_delegate.cc [modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/ui/tabs/test\_tab\_strip\_model\_delegate.h [modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/ui/views/tabs/tab\_drag\_controller\_interactive\_uitest.cc [modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/ui/views/tabs/tab\_strip.cc [modify] https://crrev.com/9a9dd29ee89ab56ce133080abb057971822858f4/chrome/browser/ui/views/tabs/tab\_strip.h

Comment 30 by Git Watcher on Thu, May 6, 2021, 4:48 PM EDT Labels: -merge-approved-91 merge-merged-4472 merge-merged-91

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0

commit 2a7d8380b75558f036ed58f13b4bd282cdfa2ab0 Author: Solomon Kinard <solomonkinard@chromium.org> Date: Thu May 06 20:47:56 2021

[M91][Extensions][Tabs] OOB when extension highlights tab during drag

The bug includes an existing test that was incorporated into this CL.

This was tested via the included test and manually with two extensions. One extension uses tabs.update(highlighted) and the other uses tab highlight(). Those tests haven't been included in this CL for faster turnaround.

(cherry picked from commit 4220923a7a20b136b61d10098975046e0f6bdaf9)

Change-Id: I591e4111f82abb6e70567882d4eaf6c99d08ab51

view.googlesource.com/c/chromium/src/+/2849068

Commit-Queue: Solomon Kinard <solomonkinard@chromium.org> Reviewed-by: Peter Boström <pbos@chromium.org>

Reviewed-by: Devlin <rdevlin.cronin@chromium.org> Reviewed-by: Collin Baker <collinbaker@chromium.org> Reviewed-by: Collin Baker <collinbaker@google.com>

Cr-Original-Commit-Position: refs/heads/master@{#877593}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2860567

Bot-Commit: Rubber Stamper <rubber-stamper@appspot.gserviceaccount.com>

Auto-Submit: Solomon Kinard <solomonkinard@chromium.org>

Cr-Commit-Position: refs/branch-heads/4472@{#802}

Cr-Branched-From: 3d60439cfb36485e76a1c5bb7f513d3721b20da1-refs/heads/master@{#870763}

[modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/extensions/api/tabs/tabs\_api.cc [modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/extensions/api/tabs/tabs\_constants\_cc

[modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/extensions/api/tabs/tabs\_constants.h

[modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.cc

[modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.h

[modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/ui/tabs/tab\_strip\_model.cc

[modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/ui/tabs/tab\_strip\_model.h

[modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/ui/tabs/tab\_strip\_model\_delegate.h [modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/ui/tabs/test\_tab\_strip\_model\_delegate.cc

[modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/ui/tabs/test\_tab\_strip\_model\_delegate.h

[modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/ui/views/tabs/tab\_drag\_controller\_interactive\_uitest.cc [modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/ui/views/tabs/tab\_strip.cc

[modify] https://crrev.com/2a7d8380b75558f036ed58f13b4bd282cdfa2ab0/chrome/browser/ui/views/tabs/tab\_strip.h

Comment 31 by amyressler@chromium.org on Fri, May 7, 2021, 5:25 PM EDT

Labels: Release-3-M90

Comment 32 by vsavu@google.com on Mon, May 10, 2021, 9:20 AM EDT

Labels: LTS-Merge-Request-86 LTS-Security-86

Comment 33 by amyressler@google.com on Mon, May 10, 2021, 9:54 AM EDT

Labels: CVE-2021-30509 CVE description-missing

Comment 34 by gianluca@google.com on Wed, May 12, 2021, 12:33 PM EDT

Labels: -LTS-Merge-Request-86 LTS-Merge-Approved-86

Comment 35 by Git Watcher on Wed. May 12, 2021, 12:50 PM EDT

Labels: merge-merged-4240

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/23ce88849f979b1f0b56b29dab500e599a9eb2d2

commit 23ce88849f979h1f0h56h29dah500e599a9eh2d2 Author: Solomon Kinard <solomonkinard@chromium.org>

Date: Wed May 12 16:49:34 2021

[M86-LTS] [Extensions][Tabs] OOB when extension highlights tab during drag

The bug includes an existing test that was incorporated into this CL.

This was tested via the included test and manually with two extensions. One extension uses tabs.update(highlighted) and the other uses tab.highlight(). Those tests haven't been included in this CL for

[M86]: Resolved conflicts due to missing code.

# Bug: 1106300

(cherry picked from commit 4220923a7a20b136b61d10098975046e0f6bdaf9)

Change-Id: I591e4111f82abb6e70567882d4eaf6c99d08ab51

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2849068

Commit-Queue: Solomon Kinard <solomonkinard@chromium.org> Reviewed-by: Peter Boström <pbos@chromium.org>

Reviewed-by: Devlin <rdevlin.cronin@chromium.org> Reviewed-by: Collin Baker <collinbaker@chromium.org> Reviewed-by: Collin Baker <collinbaker@google.com>

Cr-Original-Commit-Position: refs/heads/master@{#877593}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2883624

Owners-Override: Victor-Gabriel Savu <vsavu@google.com> Reviewed-by: Achuith Bhandarkar <achuith@chromium.org> Commit-Queue: Victor-Gabriel Savu <vsavu@google.com Cr-Commit-Position: refs/branch-heads/4240@{#1632}

Cr-Branched-From: f297677702651916bbf65e59c 4bbd4ce57d1ee-refs/heads/master@{#800218}

[modify] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/extensions/api/tabs/tabs\_api\_cc [modify] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/extensions/api/tabs/tabs\_constants.cc

[modify] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/extensions/api/tabs/tabs\_constants.h

[modifv] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.cc [modify] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.h

[modify] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/ui/tabs/tab\_strip\_model.cc [modify] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/ui/tabs/tab\_strip\_model.h

[modify] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/ui/tabs/tab\_strip\_model\_delegate.h

[modify] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/ui/tabs/test\_tab\_strip\_model\_delegate.cc

[modify] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/ui/tabs/test\_tab\_strip\_model\_delegate.h

modify https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/ui/views/tabs/tab\_drag\_controller\_interactive\_uitest.cc

[modify] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/ui/views/tabs/tab\_strip.cc

[modify] https://crrev.com/23ce88849f979b1f0b56b29dab500e599a9eb2d2/chrome/browser/ui/views/tabs/tab\_strip.h

Comment 36 by amyressler@google.com on Wed, May 12, 2021, 7:11 PM EDT

Labels: -reward-topanel reward-unpaid reward-10000

\*\*\* Boilerplate reminders! \*\*\*

Please do NOT publicly disclose details until a fix has been released to all our users. Early public disclosure may cancel the provisional reward. Also, please be considerate about disclosure when the bug affects a core library that may be used by other products. Please do NOT share this information with third parties who are not directly involved in fixing the bug. Doing so may cancel the provisional reward. Please be honest if you have already disclosed anything publicly or to third parties. Lastly, we understand that some of you are not interested in money. We offer the option to donate your reward to an eligible charity. If you prefer this option, let us know and we will also match your donation - subject to our discretion. Any rewards that are unclaimed after 12 months will be donated to a charity of our choosing

Please contact security-vrp@chromium.org with any questions.

Comment 37 by amyressler@chromium.org on Wed, May 12, 2021, 7:22 PM EDT

Congratulations, David! The VRP Panel has decided to award you \$10,000 for this report. Excellent work!

Comment 38 by amyressler@google.com on Mon, May 17, 2021, 2:21 PM EDT

Labels: -reward-unpaid reward-inprocess

Comment 39 by Git Watcher on Mon, May 17, 2021, 3:29 PM EDT

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/33109f1824b9ae3d488b7372f9aca68f611be606

commit 33109f1824b9ae3d488b7372f9aca68f611be606 Author: Solomon Kinard <solomonkinard@chromium.org>

Date: Mon May 17 19:28:43 2021

[Extensions][Tabs] Ensure tab strip is editable before editing

<del>7146</del>.1197888.<del>110</del>

Change-Id: Ic51669a7f7b17a35cd2c0ed018abcfeddf068a26

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2891080 Commit-Queue: Solomon Kinard <solomonkinard@chromium.org>

Reviewed-by: Taylor Bergquist <tbergquist@chromium.org> Reviewed-by: Karan Bhatia <karandeepb@chromium.org>

Cr-Commit-Position: refs/heads/master@{#883567}

[modify] https://crrev.com/33109f1824b9ae3d488b7372f9aca68f611be606/chrome/browser/extensions/api/tab\_groups/tab\_groups api.cc

[modify] https://crrev.com/33109f1824b9ae3d488b7372f9aca68f611be606/chrome/browser/extensions/api/tab groups/tab groups api unittest.cc [modify] https://crrev.com/33109f1824b9ae3d488b7372f9aca68f611be606/chrome/browser/extensions/api/tabs/tabs\_api.cc

[modify] https://crrev.com/33109f1824b9ae3d488b7372f9aca68f611be606/chrome/browser/extensions/api/tabs/tabs\_api\_unittest.cc

[modify] https://crrev.com/33109f1824b9ae3d488b7372f9aca68f611be606/chrome/browser/extensions/api/tabs/tabs constants.cc

[modify] https://crrev.com/33109f1824b9ae3d488b7372f9aca68f611be606/chrome/browser/extensions/api/tabs/tabs constants.h [modify] https://crrev.com/33109f1824b9ae3d488b7372f9aca68f611be606/chrome/browser/extensions/extension\_tab\_util.cc

[modify] https://crrev.com/33109f1824b9ae3d488b7372f9aca68f611be606/chrome/browser/extensions/extension\_tab\_util.h

[modify] https://crrev.com/33109f1824b9ae3d488b7372f9aca68f611be606/chrome/test/base/test\_browser\_windo

[modify] https://crrev.com/33109f1824b9ae3d488b7372f9aca68f611be606/chrome/test/base/test\_browser\_window.h

Comment 40 by solomonkinard@chromium.org on Mon, May 17, 2021, 3:54 PM EDT crrev.com/c/2891080 merged.

Comment 41 by Git Watcher on Tue, May 18, 2021, 8:10 PM EDT

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/f5ae8693fcb042797de12b6b9cc055da0090a80a

commit f5ae8693fcb042797de12b6b9cc055da0090a80a

Author: Solomon Kinard <solomonkinard@chromium.org>

Date: Wed May 19 00:09:39 2021

[M91][Extensions][Tabs] Ensure tab strip is editable before editing

(cherry picked from commit 33109f1824b9ae3d488b7372f9aca68f611be606)

7 1107146 1197888 1196309 120

Change-Id: Ic51669a7f7b17a35cd2c0ed018abcfeddf068a26

Commit-Queue: Solomon Kinard <solomonkinard@chromium.org> Reviewed-by: Taylor Bergquist <tbergquist@chromium.org>

Reviewed-by: Karan Bhatia <karandeepb@chromium.org

Cr-Original-Commit-Position: refs/heads/master@{#883567}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2904568

Auto-Submit: Solomon Kinard <solomonkinard@chromium.org> Cr-Commit-Position: refs/branch-heads/4472@{#1169}

Cr-Branched-From: 3d60439cfb36485e76a1c5bb7f513d3721b20da1-refs/heads/master@{#870763}

[modify] https://crrev.com/f5ae8693fcb042797de12b6b9cc055da0090a80a/chrome/browser/extensions/api/tab\_groups/tab\_groups\_api.cc

[modify] https://crrev.com/f5ae8693fcb042797de12b6b9cc055da0090a80a/chrome/browser/extensions/api/tab\_groups/tab\_groups api\_unittest.cc [modify] https://crrev.com/f5ae8693fcb042797de12b6b9cc055da0090a80a/chrome/browser/extensions/api/tabs/tabs\_api.cc [modify] https://crrev.com/f5ae8693fcb042797de12b6b9cc055da0090a80a/chrome/browser/extensions/api/tabs/tabs\_api\_unittest.cc [modify] https://crrev.com/f5ae8693fcb042797de12b6b9cc055da0090a80a/chrome/browser/extensions/api/tabs/tabs\_constants.cc [modify] https://crrev.com/f5ae8693fcb042797de12b6b9cc055da0090a80a/chrome/browser/extensions/api/tabs/tabs\_constants.h [modify] https://crrev.com/f5ae8693fcb042797de12b6b9cc055da0090a80a/chrome/browser/extensions/extension tab util.cc [modify] https://crrev.com/f5ae8693fcb042797de12b6b9cc055da0090a80a/chrome/browser/extensions/extension\_tab\_util.h [modify] https://crrev.com/f5ae8693fcb042797de12b6b9cc055da0090a80a/chrome/test/base/test\_browser\_window.co [modify] https://crrev.com/f5ae8693fcb042797de12b6b9cc055da0090a80a/chrome/test/base/test\_browser\_window.h Comment 42 by Git Watcher on Wed, May 19, 2021, 3:42 PM EDT The following revision refers to this bug: https://chromium.googlesource.com/chromium/src/+/7260804a2f0823fdec95e69de0e449bb9fed1f35 commit 7260804a2f0823fdec95e69de0e449bb9fed1f35 Author: Solomon Kinard <solomonkinard@chromium.org> Date: Wed May 19 19:41:28 2021 [Extensions][Tabs] Include error message if not model isn't editable See crrev.com/c/2904568

6,1197888,<del>11963</del>

Change-Id: Idc6f1a1e336e08926de75226debcff799d703d00

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2903572

Reviewed-by: Karan Bhatia <karandeepb@chromium.org>

Commit-Queue: Solomon Kinard <solomonkinard@chromium.org>

Cr-Commit-Position: refs/heads/master@{#884626}

[modify] https://crrev.com/7260804a2f0823fdec95e69de0e449bb9fed1f35/chrome/browser/extensions/api/tabs/tabs\_api.cc

Comment 43 by Git Watcher on Thu, May 20, 2021, 7:02 AM EDT

Labels: merge-merged-4430\_101

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e

commit ce3c9a1aa475591cf3a0664498e9ebd89f38b84e Author: Solomon Kinard <solomonkinard@chromium.org>

Date: Thu May 20 10:59:16 2021

[M90][Extensions][Tabs] OOB when extension highlights tab during drag

The bug includes an existing test that was incorporated into this CL.

This was tested via the included test and manually with two extensions. One extension uses tabs.update(highlighted) and the other tab.highlight(). Those tests haven't been included in this CL for faster turnaround.

(cherry picked from commit 4220923a7a20b136b61d10098975046e0f6bdaf9)

(cherry picked from commit 9a9dd29ee89ab56ce133080abb057971822858f4)

Change-Id: I591e4111f82abb6e70567882d4eaf6c99d08ab51

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2849068 Commit-Queue: Solomon Kinard <solomonkinard@chromium.org>

Reviewed-by: Peter Boström <pbos@chromium.org>

Reviewed-by: Devlin <rdevlin.cronin@chromium.org>

Reviewed-by: Collin Baker <collinbaker@chromium.org>

Reviewed-by: Collin Baker <collinbaker@google.com> Cr-Original-Original-Commit-Position: refs/heads/master@{#877593}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2859232

Bot-Commit: Rubber Stamper <rubber-stamper@appspot.gserviceaccount.com> Auto-Submit: Solomon Kinard <solomonkinard@chromium.org

Cr-Original-Commit-Position: refs/branch-heads/4430@{#1414}

Cr-Original-Branched-From: e5ce7dc4f7518237b3d9bb93cccca35d25216cbe-refs/heads/master@{#857950}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2884094

Reviewed-by: Achuith Bhandarkar <achuith@chromium.org>

Owners-Override: Victor-Gabriel Savu <vsavu@google.com

Cr-Commit-Position: refs/branch-heads/4430\_101@{#46}

Cr-Branched-From: 3e9034a21f4b1f6707146b1309e001c3321ab48a-refs/branch-heads/4430@{#1364}

Cr-Branched-From: e5ce7dc4f7518237b3d9bb93cccca35d25216cbe-refs/heads/master@{#857950}

[modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/extensions/api/tabs/tabs\_api.cc

[modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/extensions/api/tabs/tabs\_constants.cc [modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/extensions/api/tabs/tabs\_constants.h

[modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.cc

[modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/ui/browser\_tab\_strip\_model\_delegate.h

[modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/ui/tabs/tab\_strip\_model.cc [modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/ui/tabs/tab\_strip\_model.h

[modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/ui/tabs/tab\_strip\_model\_delegate.h

[modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/ui/tabs/test\_tab\_strip\_model\_delegate.cc [modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/ui/tabs/test\_tab\_strip\_model\_delegate.h

[modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/ui/views/tabs/tab\_drag\_controller\_interactive\_uitest.cc

[modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/ui/views/tabs/tab\_str [modify] https://crrev.com/ce3c9a1aa475591cf3a0664498e9ebd89f38b84e/chrome/browser/ui/views/tabs/tab\_strip.h

Comment 44 by amyressler@google.com on Fri. Jun 4, 2021, 7:23 PM EDT

Labels: -CVE\_description-missing CVE\_description-submitted

nent 45 by Git Watcher on Wed, Jun 9, 2021, 11:56 AM EDT

The following revision refers to this bug:

ium/src/+/7aeab825dc9b93ba302d1c124c572213c4967b53 https://chromium.googlesource.com/chro

commit 7aeab825dc9b93ba302d1c124c572213c4967b53

Author: Solomon Kinard <solomonkinard@chromium.org>

Date: Wed Jun 09 15:54:57 2021

[M90-LTS][Extensions][Tabs] Ensure tab strip is editable before editing

(cherry picked from commit 33109f1824b9ae3d488b7372f9aca68f611be606)

(cherry picked from commit f5ae8693fcb042797de12b6b9cc055da0090a80a)

### <del>7,4107146</del>,1197888,<del>4106300</del>,42

Change-Id: Ic51669a7f7b17a35cd2c0ed018abcfeddf068a26

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2891080

Commit-Queue: Solomon Kinard <solomonkinard@chromium.org>

Reviewed-by: Taylor Bergquist <tbergquist@chromium.org>

Reviewed-by: Karan Bhatia <karandeepb@chromium.org>

Cr-Original-Original-Commit-Position: refs/heads/master@{#883567}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2904568

Auto-Submit: Solomon Kinard <solomonkinard@chromium.org> Cr-Original-Commit-Position: refs/branch-heads/4472@{#1169}

Cr-Original-Branched-From: 3d60439cfb36485e76a1c5bb7f513d3721b20da1-refs/heads/master@{#870763}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2944872

Reviewed-by: Achuith Bhandarkar <achuith@chromium.org>

Commit-Queue: Artem Sumaneev <asumaneev@google.com>

Owners-Override: Artem Sumaneev <asumaneev@google.com>

Cr-Commit-Position: refs/branch-heads/4430@(#1503)
Cr-Branched-From: e5ce7dc4f7518237b3d9bb93cccca35d25216cbe-refs/heads/master@{#857950}

 $\textbf{[modify]} \ https://crrev.com/7aeab825dc9b93ba302d1c124c572213c4967b53/chrome/browser/extensions/api/tab\_groups/tab\_groups\_api.cc$ 

[modify] https://crrev.com/7aeab825dc9b93ba302d1c124c572213c4967b53/chrome/browser/extensions/api/tab\_groups/tab\_groups\_api\_unittest.cc

[modify] https://crrev.com/7aeab825dc9b93ba302d1c124c572213c4967b53/chrome/browser/extensions/api/tabs\_tabs\_api.cc

[modify] https://crrev.com/7aeab825dc9b93ba302d1c124c572213c4967b53/chrome/browser/extensions/api/tabs/tabs\_api\_unittest.cc

[modify] https://crrev.com/7aeab825dc9b93ba302d1c124c572213c4967b53/chrome/browser/extensions/api/tabs/tabs constants.cc [modify] https://crrev.com/7aeab825dc9b93ba302d1c124c572213c4967b53/chrome/browser/extensions/api/tabs/tabs\_constants.h

[modify] https://crrev.com/7aeab825dc9b93ba302d1c124c572213c4967b53/chrome/browser/extensions/extension\_tab\_util.cc [modify] https://crrev.com/7aeab825dc9b93ba302d1c124c572213c4967b53/chrome/browser/extensions/extension\_tab\_util.h

[modify] https://crrev.com/7aeab825dc9b93ba302d1c124c572213c4967b53/chrome/test/base/test\_browser\_window.cc

[modify] https://crrev.com/7aeab825dc9b93ba302d1c124c572213c4967b53/chrome/test/base/test\_browser\_window.h

Comment 46 by sheriffbot on Thu, Aug 26, 2021, 1:30 PM EDT

Labels: -Restrict-View-SecurityNotify allpublic

This bug has been closed for more than 14 weeks. Removing security view restrictions.

For more details visit https://www.chromium.org/issue-tracking/autotriage - Your friendly Sheriffbot

About Monorail User Guide Release Notes Feedback on Monorail Terms Privacy