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CSS injection with width and height options #546



○ Closed ankane opened this issue on Aug 4, 2020 · 5 comments

Owner ankane commented on Aug 4, 2020 • edited • The Chartkick Ruby gem is vulnerable to CSS injection if user input is passed to the width or height option. This vulnerability has been assigned the CVE identifier CVE-2020-16254. Versions Affected: 3.3.2 and below Fixed Versions: 3.4.0 **Impact** Chartkick is vulnerable to CSS injection if user input is passed to the width or height option. <%= line_chart data, width: params[:width], height: params[:height] %> An attacker can set additional CSS properties, like: <%= line_chart data, width: "100%; background-image: url('http://example.com/image.png')" %> All users running an affected release should upgrade. **Technical Details** Chartkick uses ERB::Util.html_escape to escape the width and height. This prevents XSS, but does not escape semicolons, which allows CSS additional properties to be set. Chartkick now limits

ankane closed this as completed on Aug 4, 2020

ankane mentioned this issue on Aug 4, 2020

Added CVE-2020-16254 for chartkick rubysec/ruby-advisory-db#453

width and height values to alphanumeric and % (this prevents some valid values like calc() but keeps things simple).

(№ Merged)

cernyjakub commented on Oct 3, 2020

Hello! My app stopped working after updating to 3.4 - I use rem units to set height.

I think all units should be whitelisted - in other apps I also use vw , wh or em ...

regards!

ankane commented on Oct 3, 2020

Owner Author

Hey @cernyjakub, can you share the exact values you're trying to use that aren't working?

cernyjakub commented on Oct 4, 2020

This is the exact line from Sentry trace:

= bar_chart data, :height => "#{src.keys.size * 1.75}rem"

I use rem with float value - maybe the float is the glitch?

ankane added a commit that referenced this issue on Oct 5, 2020

Relaxed validation for width and height options - #546

1092181

Owner Author

Hey @cernyjakub, 3.4.1 was just released which allows for the . character.

cernyjakub commented on Oct 7, 2020

ankane commented on Oct 6, 2020

Thanks for patching this, works fine for me!

This was referenced on Mar 12, 2021



Bump chartkick from 3.3.2 to 3.4.0 arvmaster/PACE#2

\$ Closed

Assignees
No one assigned
Labels
None yet
Projects
None yet
Milestone
No milestone
Development
No branches or pull requests
2 participants

