

# Test the Smoothness or Jankiness of Your Application

Web applications sometimes appear to lack *smoothness* when the the application isn't keeping up with the refresh yet. This is also referred to as *jankiness*.

According to [jankfree.org](http://jankfree.org):

*Jank is any stuttering, juddering or just plain halting that users see when a site or app isn't keeping up with the refresh rate. Jank is the result of frames taking too long for a browser to make, and it negatively impacts your users and how they experience your site or app.*

To see an example, go to <https://googlechrome.github.io/devtools-samples/jank/>.

## Enterprise Plans Only

This feature is available for Enterprise plans only. For more information about other benefits that are included with Enterprise plans, [check out our Pricing page](#).

## Chrome Only

This feature is available only for testing web applications with the Google Chrome browser.

## Enable your script to measure Jankiness

1. Add the necessary capabilities to execute a performance script, as described in [Measure Page Load Performance using Test Automation](#).
2. Unlike the page load performance, it is up to the script to decide when to measure jankiness. Add the following to your script at the right places you want to measure jankiness:

For details, see [Test Command](#).

## Reporting Jankiness

When your test completes, it generates a set of metrics and that you can access through the Performance tab of the Test Details page. If you detect a regression in your website's performance, you can download a Full Trace report, or you can use the Chrome DevTool, which records Javascript method signatures in a hierarchical view for each thread in each process, to get a better idea of how the Chrome browser is interacting with your website.



The full Performance Report provides you access to all jank metrics as well as area charts showing the Frames Per Second (FPS) CPU and Heap memory used during the jank test

Test Details / Performance Report

PERFORMANCE

Team Selenium

# PerformanceTests

10/30/17 at 4:47PM 11s Windows 10 Google Chrome 72

Owner: a-team  
Build: Build 162234

2 of 5 JANK 3RD http://www.saucelabs.com/jank-performance

View Trace

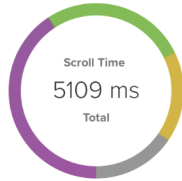
This URL is experiencing performance regression in the following metric(s): Painting Time [ADJUST BASELINE](#)

## 93

### Overall Jankiness Score

Jank is any halting that users see when a site or app isn't keeping up with the refresh rate.  
[Read more.](#)

Scoring Range:  
0 - 49 50 - 89 90 - 100



Scripting Time →  
1811 ms

Rendering Time →  
2498 ms

Painting Time →  
756 ms

Idle Time →  
72 ms

Other Time →  
267 ms

Avg. FPS →  
60

Forced Reflow Counts →  
0

Memory Usage Diff →  
13.2 KB

