

How to check your Chromebook's battery health

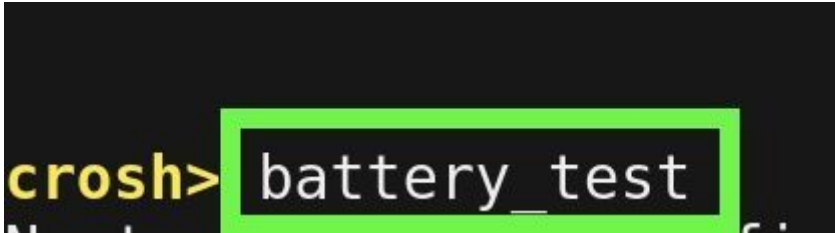
Here's how to make sure your Chromebook is in top shape



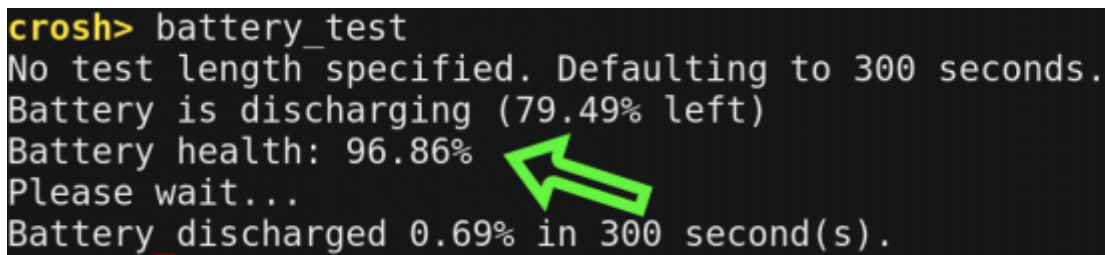
How to check your Chromebook's battery health

1. Hit **Ctrl + Alt + t** to open the Crosh.

2. Type 'battery test' and hit Enter.

A terminal window with a black background. The prompt 'crosh>' is in yellow. The text 'battery_test' is being typed in white and is highlighted by a green rectangular box.

3. Here's your battery's health, measured in a percentage out of 100 percentage

A terminal window with a black background. The text is as follows:
`crosh> battery_test`
No test length specified. Defaulting to 300 seconds.
Battery is discharging (79.49% left)
Battery health: 96.86%
Please wait...
Battery discharged 0.69% in 300 second(s).
A green arrow points from the right towards the '96.86%' value.

You can get a speculative battery life estimate (based on whatever action you're doing on the Chromebook) with that result. For example, I plugged 0.69, the result I got, into the following equation:

$$((100/0.69)*5)/60=$$

And got 12.07 hours of battery life. That being said, this test doesn't take actual system use into account.

5. Type 'battery_firmware info' into the Crosh and hit Enter.

6. Here you'll see the maximum battery capacity (Design capacity), how of that capacity your battery hit at its last full charge, and how many battery cycles you've gone through.

screenshot 2018 12 21 at 9.35.51 am

So, if my Battery Health is at 96.86 percent, that means I've used 3.14 percent of its total life in those 25 cycles. Then, $(96.86/3.14) = (X/25)$, where X = the amount of cycles it will take to deplete the rest of the battery's health. A simple bit of division and multiplication gets you the answer of approximately 771 cycles being left in your battery, with a total of 796 charges.

But I wouldn't want to rely on long life from a laptop battery once it reaches 400 or more charges. Congrats, now you're a lot more informed about your Chromebook's battery life!

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