

How to Test a Video Card

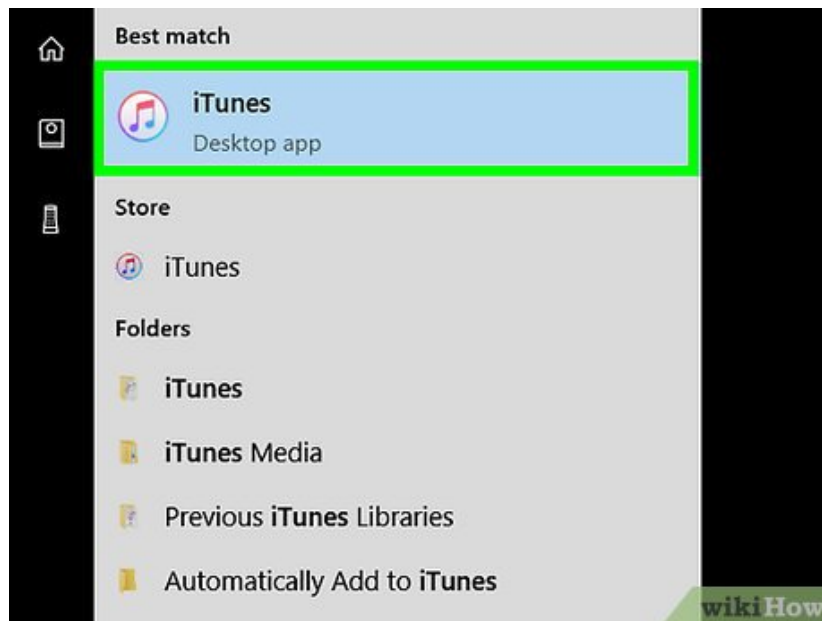
This wikiHow teaches you how to test your computer's video card (also known as a 'graphics card') for performance errors and limitations. You can do this by using a benchmark test to score your video card and then comparing that score to...

Part 1 of 3:

Preparing to Test Your GPU

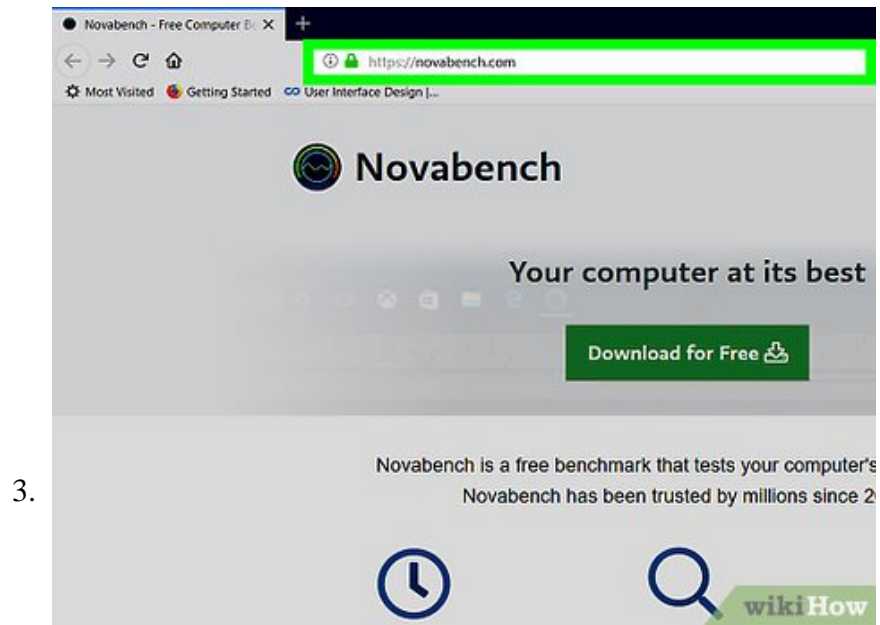
1. **Place your computer in the environment in which you use it most.** When testing your video card, it's best to recreate the circumstances under which you use your computer, including the temperature, location, and position.
 1. For example, if you usually use your computer while seated in bed, you should test the video card under those circumstances for the most accurate results.

2.



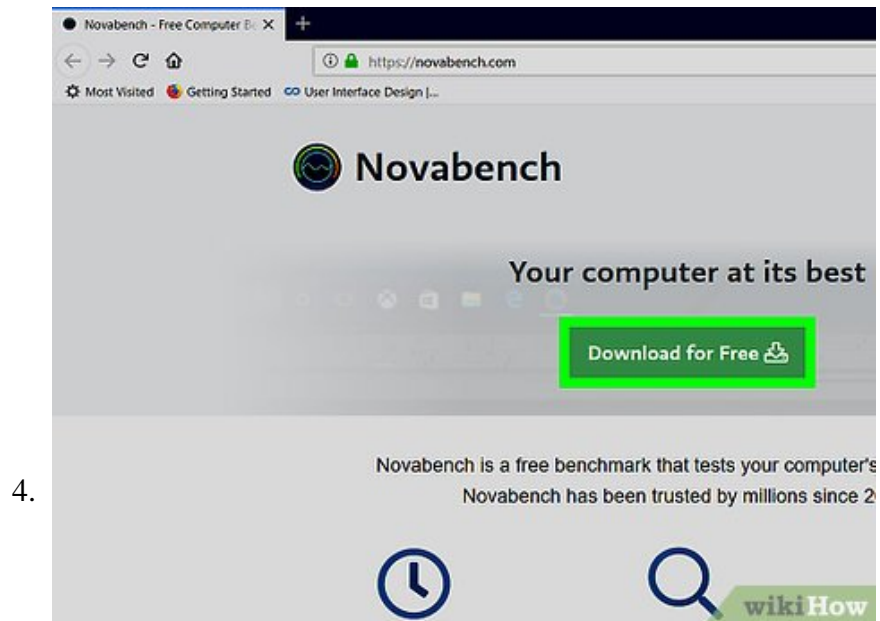
Open programs you commonly use. In the theme of testing your video card as accurately as possible, make sure any programs you frequently use are open.

1. For example, if you usually have iTunes and a web browser open while working, open those programs before you run your benchmark test.

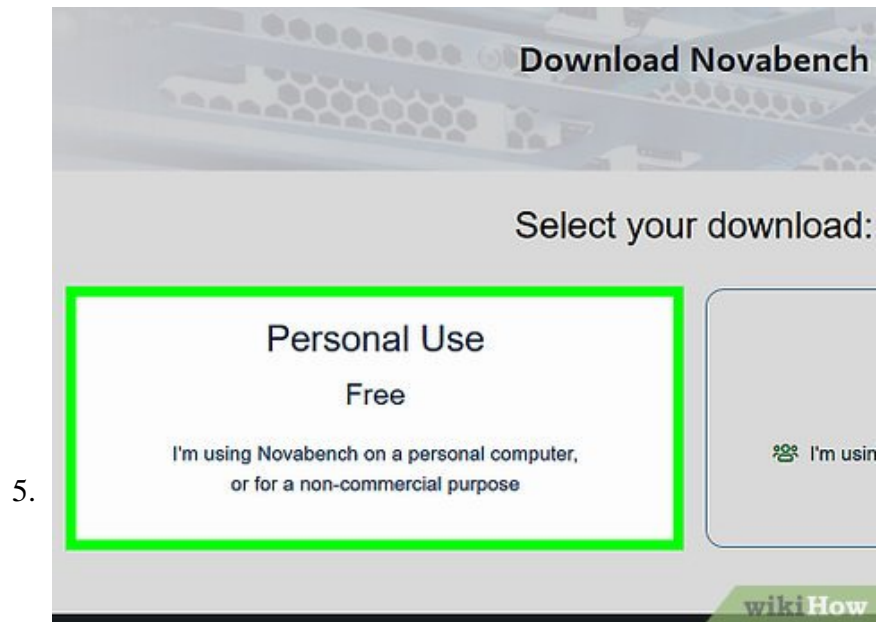


Open the Novabench website. Go to <https://novabench.com/> in your computer's web browser.

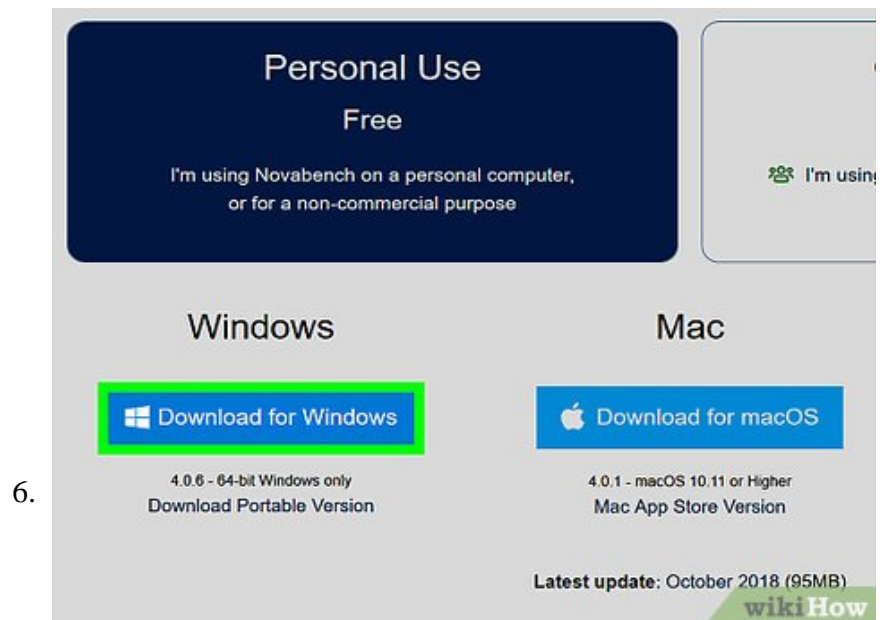
1. Novabench is a program that has some free aspects, one of which includes assigning to your video card a score that you can use to compare your video card's performance to the ideal score.



Click **Download for Free**. It's a green button near the top of the page.

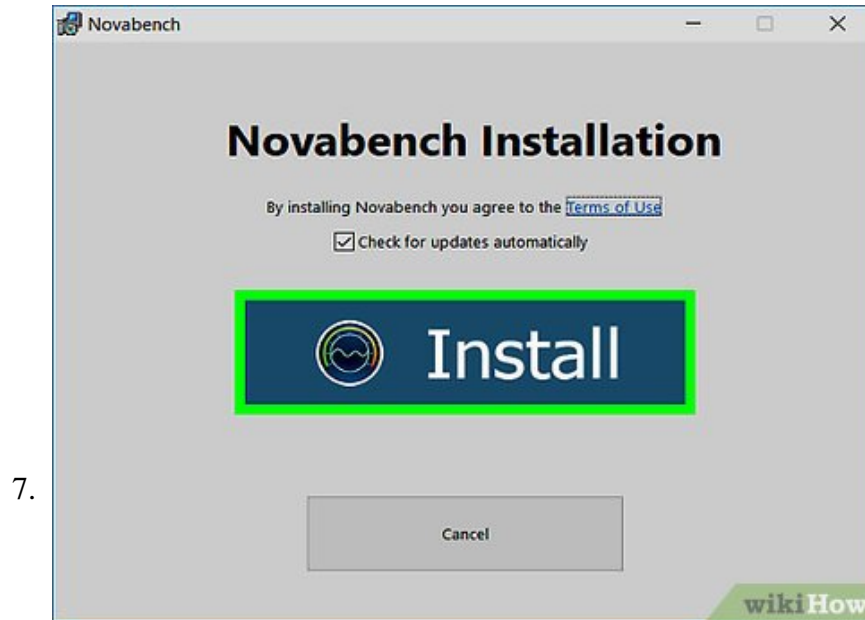


Click **Personal Use**. This is on the left side of the page.



Select your operating system. Below the **Personal Use**, click the operating system for which you want to download the installer. This will prompt the installer file to begin downloading onto your computer.

1. You may need to specify a save location or click **Save File** before the file will download.

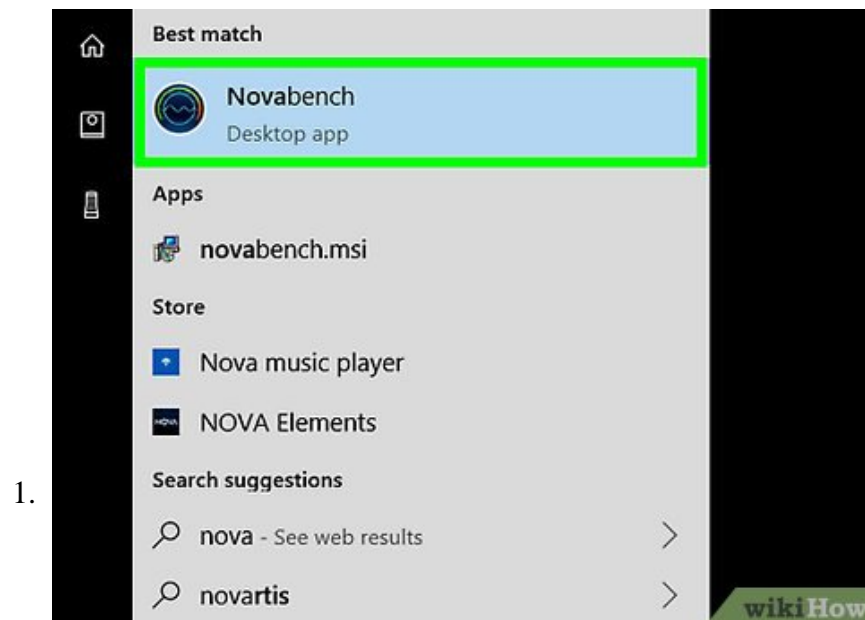


Install Novabench. Double-click the downloaded file, then click through the on-screen prompts until you've installed Novabench.

1. On a Mac, you'll drag the Novabench app icon onto the "Applications" folder icon to begin the installation process.

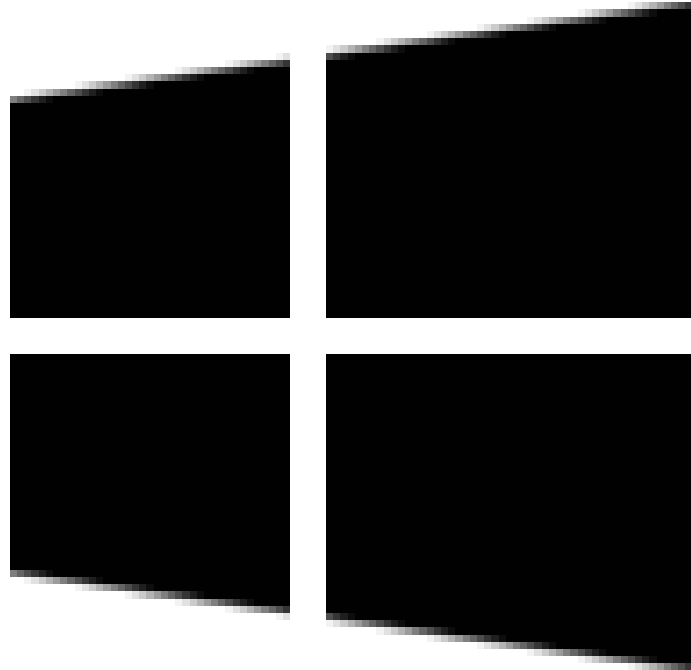
Part 2 of 3:

Finding Your GPU Score



Open Novabench. Click or double-click the Novabench app icon, which resembles a speedometer on a dark-blue background.

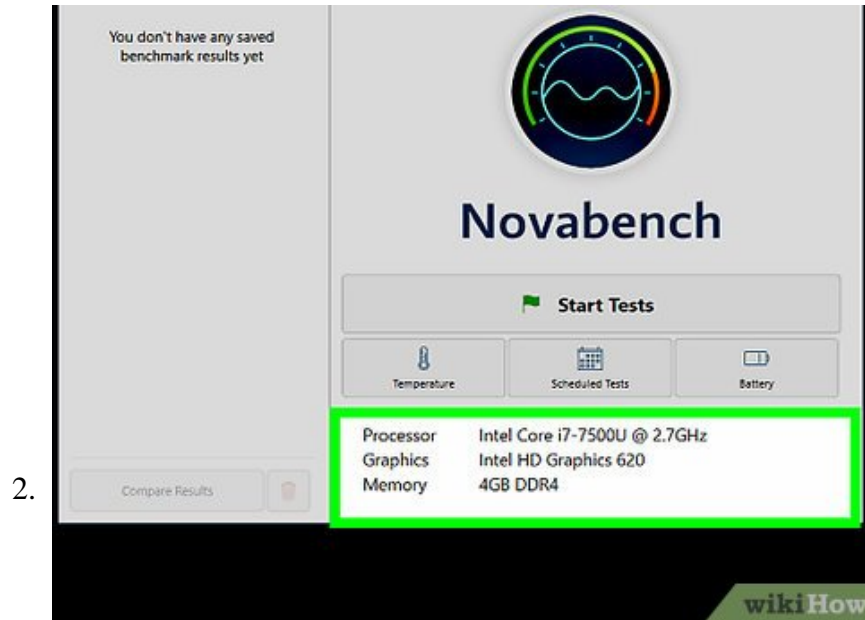
1. You can also type `novabench` into Start



(Windows) or Spotlight

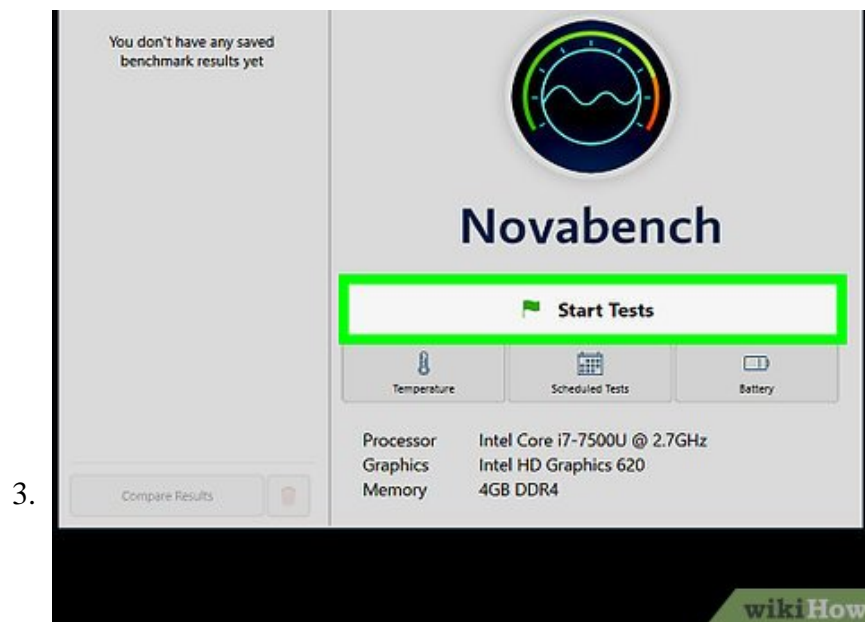


- (Mac) and then click or double-click **Novabench** in the search results.
2. Novabench may open automatically after the installation completes.

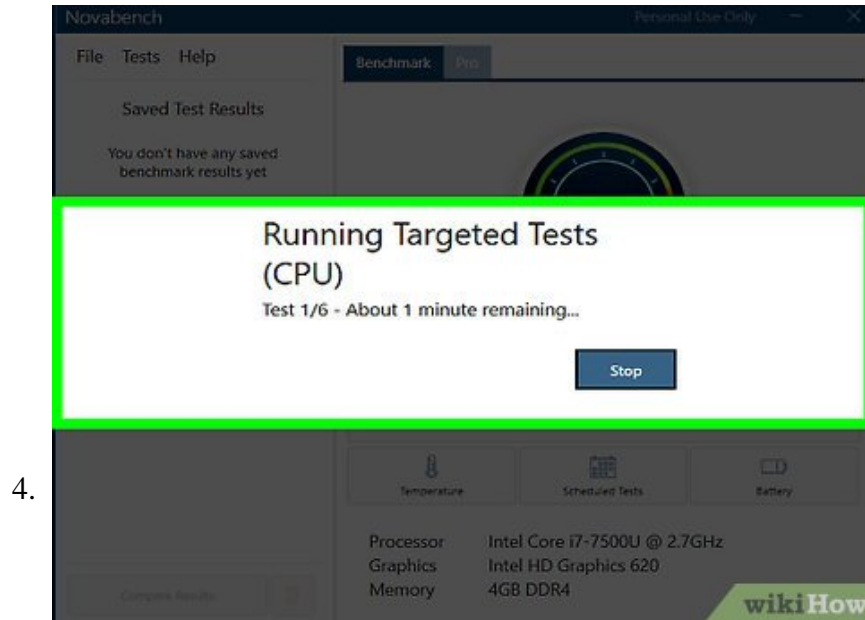


Review your video card's name. You'll find your video card to the right of the "Graphics" heading in the middle of the Novabench window.

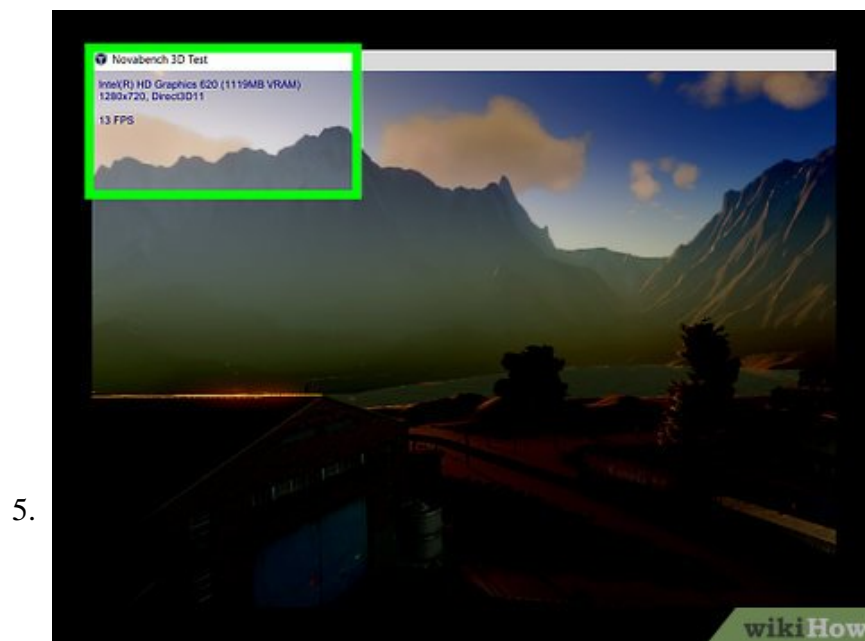
1. You'll also see your video card's temperature here. Keep an eye on this—if you notice a huge spike in temperature during the benchmark test, your video card may be inadequately ventilated or cooled.



Click **Start Tests**. This button is in the middle of the window.

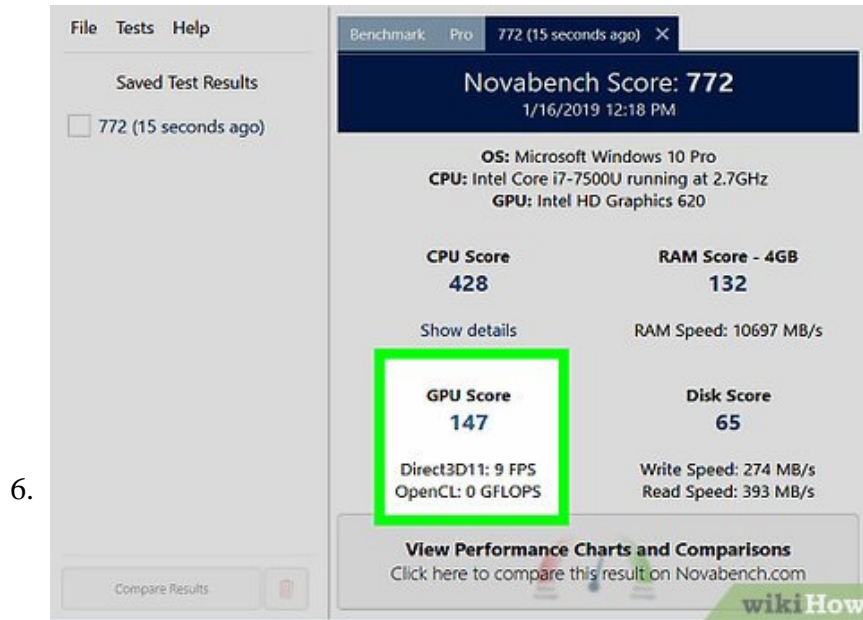


Allow Novabench to run tests on your computer. Novabench will run a few diagnostic tests before proceeding to the GPU (video card) test.



Pay attention to the FPS value. During the GPU test—which resembles a 3D animated scene playing out—look at the "FPS" number in the upper-left side of the window.

1. If the FPS is below 30, your computer's video card is struggling to render the test.
2. An FPS value below 60 indicates that your computer won't handle some high-resolution video games.

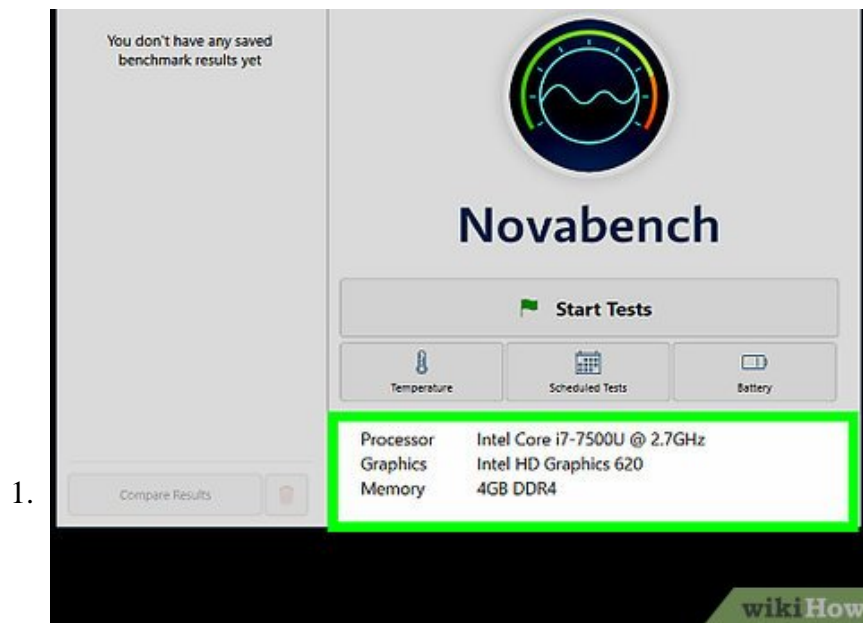


Review your video card's score. Below the "GPU" heading, you'll see a three-digit score. This is your video card's current score under your computer's current circumstances. Now that you have the score, you can compare your video card to the video card's average score on Novabench's website.

1. A score of below 400 to 500 indicates that your video card can't handle hefty operations such as intensive HD video editing, high-quality gaming, and so on.

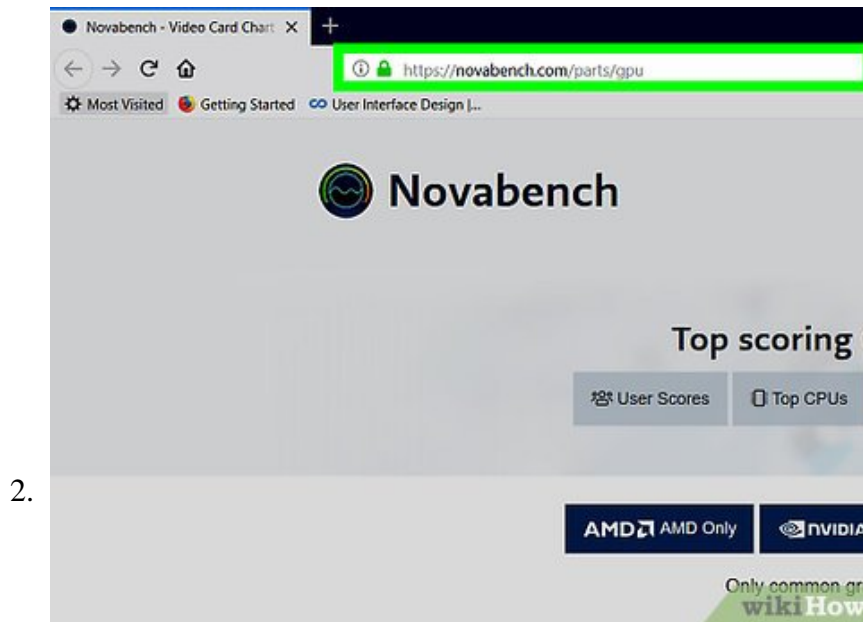
Part 3 of 3:

Comparing Your Score

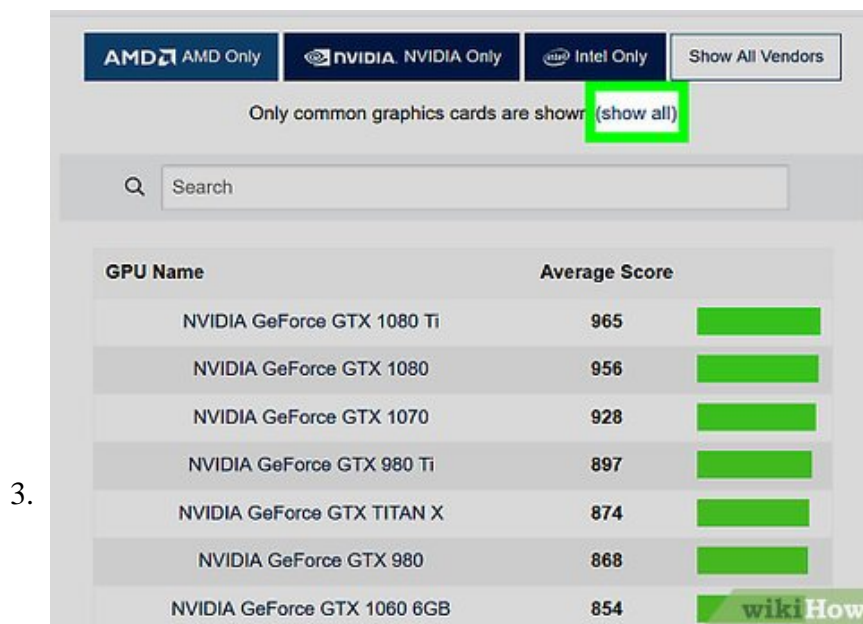


Remember your video card's name and score. You'll need to know your video card's full name in order to find it on Novabench's score page, and you should remember the score your video card received to

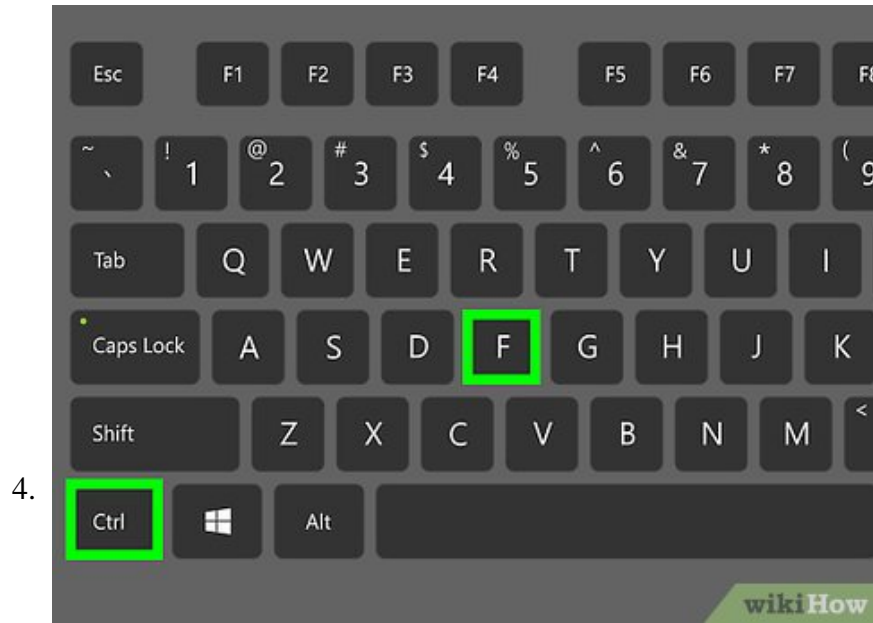
compare it with the average score for your video card.



Open Novabench's score page. Go to https://novabench.com/parts/gpu in your computer's web browser.

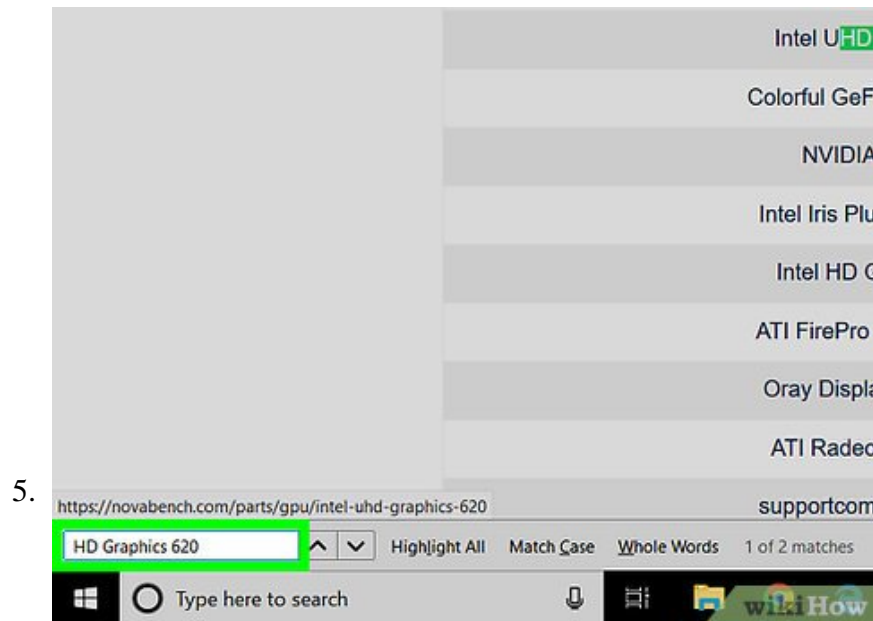


Click (show all). This link is just above the search box near the top of the page.

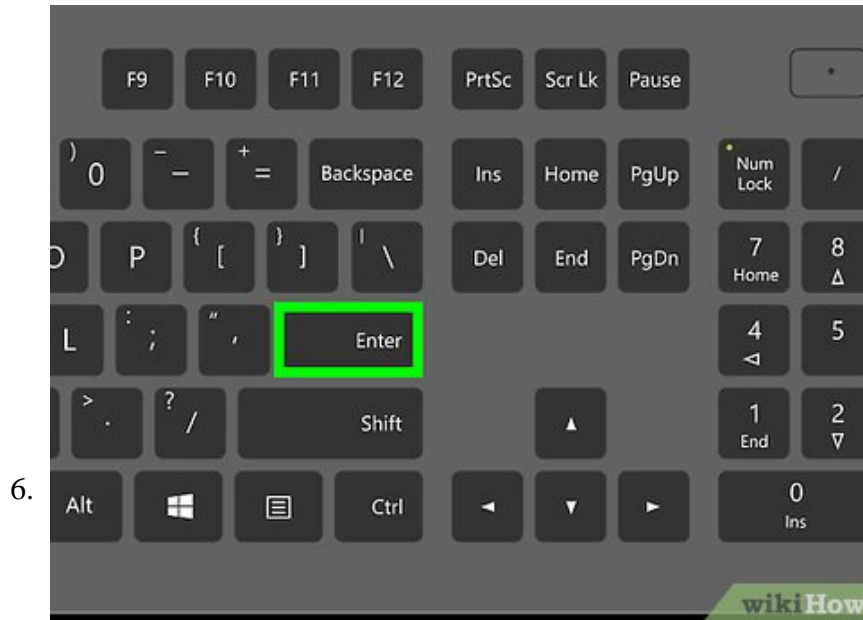


Bring up the "Find" search bar. In most web browsers, you can press Ctrl + F (Windows) or Command + F (Mac) to open the page search text box in the upper-right side of the page.

1. You may have to click the text box before proceeding.



Enter your video card's name. Type in the name of your video card as specified by Novabench.



Press **Enter**. Doing so will locate your video card on the Novabench page.

1. In some cases, typing in the full name of your video card will take you to that result on this page. If so, you don't need to press **Enter**.

7.

GTX460	269	
ATI Radeon HD 4890	268	
ZoneScreen Virtual Display Driver	268	
NVIDIA Quadro NVS 295	268	
AMD Radeon HD 6900M Series	268	
NVIDIA GeForce GTX 470M	267	
AMD FirePro S7000 (FireGL V)	266	
Intel UHD Graphics 620	266	
Colorful GeForce GTX 560 Ti	265	
NVIDIA D14P2-30	264	
Intel Iris Plus Graphics 640	263	
Intel HD Graphics 4600	263	
ATI FirePro V4800 (FireGL)	263	

Review the GPU's score on the benchmark page. You'll see the score to the right of the video card's name. Ideally, your computer's benchmark score will be at or above this score.

1. For example, if your GPU's score is higher than the one noted on Novabench's page, your video card is running above average.
2. If your GPU's score is significantly lower than the one noted on Novabench's page, you are either running too many programs at once or your video card is beginning to fail.

You finished reading the article "**How to Test a Video Card**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.

