Features of Chrome DevTools

Now that you know how to use the DevTools let's take a look at some of the features that make it so powerful.

With DevTools, you can:

1. Inspect as well as modify the HTML and CSS of your pages.

2. Debug JavaScript code.

3. Measure the performance of your pages.

4. Simulate different types of devices and browsers.

5. Inspecting and modifying HTML and CSS

Let's study these features in detail:

Inspecting Elements

With DevTools, you can inspect and edit the HTML and CSS of your pages. This is useful for finding and fixing errors in your code.

To inspect the HTML of a page:

1. First, Right-click on the page and select Inspect from the menu.

2. The DevTools window will open.

3. Click on the Elements tab to check the HTML code.

You can edit the Page HTML directly in the DevTools window. To do this:

1. Right-click on the element you want to edit and select Edit as HTML from the menu.

2. Make your changes in the text editor that opens up.

3. When you're finished, click the Save button.

To inspect and edit the CSS of a page:

1. Right-click on the element you want to inspect and select Inspect from the menu.

2. The DevTools window will open.

3. Click on the Styles tab to view the CSS code for the selected element.

4. To edit the CSS code, simply make your changes in the text editor that opens up.

5. When you're finished, click the Save button.

Debugging JavaScript code

With DevTools, you can set breakpoints in your JavaScript code so that you can step through it line by line and see what's happening at each stage. This is useful for finding errors in your code.

To set a breakpoint in your code:

1. Right-click on the line of code you want to set a breakpoint on and select Inspect from the menu.

2. The DevTools window will open.

3. Click on the Sources tab.

4. Find the line of code on which you want to set a breakpoint and click to the left to insert a breakpoint marker.

5. Click the play button in the DevTools window to start debugging your code.

6. Your code will now run line by line until it reaches the breakpoint you've set. You can use the buttons in the DevTools window to step through your code, or you can click on the line of code you want to execute and press the F10 key.

Measuring the performance of your pages

With DevTools, you can measure the performance of your pages using the Timeline and Profiles tools. These tools can help you find bottlenecks in your code so that you can optimize your pages for better performance.

To measure the performance of your pages:

1. Open the DevTools window and click on the Timeline tab.

2. Select how far back in time you want to collect data from, then click the Start button.

3. Click around on your page to interact with it, then click the Stop button when you're finished.

4. The Timeline will now show you a detailed breakdown of all the activities that took place during the recording.

5. You can use the Profiles tool to see a more detailed analysis of a specific part of the Timeline. To do this, click on the area of the Timeline you want to investigate, then click on the profile tab and select which type of profile you want to take.

6. Once the profile is complete, you'll be able to see a detailed report of what was happening in your code during that time period. This report can help you identify bottlenecks so that you can optimize your code for better performance.

Simulating different devices and browsers

With DevTools, you can simulate different types of devices and browsers so that you can test how your pages will look and behave on different platforms.

To simulate a device:

1. Open the DevTools window and click on the Settings button (three dots).

2. Select More tools > Rendering settings from the menu.

3. In the Emulate tab, select the type of device you want to simulate from the drop-down menu.

4. You can also adjust the screen resolution and pixel density if needed.

5. To see how your page will look on this device, simply refresh the page.

To simulate a different browser:

1. Open the DevTools window and click on the Settings button (three dots).

2. Select More tools > User-Agent from the menu.

3. In the User Agent tab, select the browser you want to simulate from the drop-down menu.

4. To check how the page will look in this browser, simply refresh the page.

Advanced Features of Chrome DevTools

The Device Mode

The Device Mode is a feature in DevTools that allows you to simulate how your pages will look and behave on different types of devices. With Device

Mode, you can adjust the size and position of the viewport, emulate different types of devices, and even simulate different types of networks to test how your pages will perform under different conditions.

To access the Device Mode:

1. Open the DevTools window and click on the Settings button (three dots).

2. Select More tools > Developer Tools settings from the menu.

3. In the General tab, check the checkbox next to EnableDevice Mode.

4. Click on the Devices icon (two smartphones).

5. The Device Mode will now be enabled.

The Browser Mode

The Browser Mode is a feature in DevTools that allows you to simulate how your pages will look and behave in different types of browsers. With Browser Mode, you can select from a list of common browsers and view your pages as if that browser was rendering them. This can be useful for testing how your pages will look and behave on different platforms.

To access the Browser Mode:

1. Open the DevTools window and click on the Settings button (three dots).

2. Select More tools > Developer Tools settings from the menu.

3. In the General tab, check the checkbox next to EnableBrowser Mode.

4. Click on the Browsers icon (a globe).

5. The Browser Mode will now be enabled.

The Network Throttling

Network Throttling is a feature in DevTools that allows you to simulate how your pages will load and perform under different network conditions. With Network Throttling, you can select from a list of common network types and view your pages as if they were being loaded over that type of connection. This can be useful for testing how your pages will perform on different types of devices and under different conditions.

To access the Network Throttling:

1. Open the DevTools window and click the Settings button (three dots).

2. Select More tools > Developer Tools settings from the menu

3. In the General tab, check the checkbox next to Enable Network Throttling.

4. Click on the Network icon (a computer screen).

5. The Network Throttling will now be enabled.