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What are extensions?

Extensions are small software programs that customize the browsing experience. They enable users to tailor Chrome functionality and behavior to individual needs or preferences. **They are built on web technologies such as HTML, JavaScript, and CSS.**

An extension must fulfill a single purpose that is narrowly defined and easy to understand. A single extension can include multiple components and a range of functionality, as long as everything contributes towards a common purpose.

User interfaces should be minimal and have intent. They can range from a simple icon, such as the **Google Mail Checker extension** shown on the right, to **overriding** an entire page.



Extension files are **zipped** into a single **.crx** package that the user downloads and installs. This means extensions do not depend on content from the web, unlike ordinary web apps.

Extensions are distributed through the **Chrome Developer Dashboard** and published to the **Chrome Web Store**. For more information, see the **store developer documentation**.

Hello Extensions

Take a small step into extensions with this quick Hello Extensions example. Start by creating a new directory to store the extension's files, or download them from the **sample page**.

Next, add a file called **manifest.json** and include the following code:

```
{
  "name": "Hello Extensions",
  "description" : "Base Level Extension",
  "version": "1.0",
  "manifest_version": 2
}
```

Every extension requires a manifest, though most extensions will not do much with just the manifest. For this quick start, the extension has a popup file and icon declared under the **browser_action** field:

```
{
  "name": "Hello Extensions",
  "description" : "Base Level Extension",
  "version": "1.0",
  "manifest_version": 2,
  "browser_action": {
    "default_popup": "hello.html",
    "default_icon": "hello_extensions.png"
  }
}
```

Download [hello_extensions.png here](#) and then create a file titled `hello.html`:

```
<html>
  <body>
    <h1>Hello Extensions</h1>
  </body>
</html>
```

The extension now displays `hello.html` when the icon is clicked. The next step is to include a **command** in the `manifest.json` that **enables a keyboard shortcut**. This step is fun, but not necessary:

```
{
  "name": "Hello Extensions",
  "description" : "Base Level Extension",
  "version": "1.0",
  "manifest_version": 2,
  "browser_action": {
    "default_popup": "hello.html",
    "default_icon": "hello_extensions.png"
  },
  "commands": {
```

```
"_execute_browser_action": {  
  "suggested_key": {  
    "default": "Ctrl+Shift+F",  
    "mac": "MacCtrl+Shift+F"  
  },  
  "description": "Opens hello.html"  
}  
}  
  
}
```

加入快捷键打开方式

The last step is to install the extension on your local machine.

1. Navigate to <chrome://extensions> in your browser. You can also access this page by clicking on the Chrome menu on the top right side of the Omnibox, hovering over **More Tools** and selecting **Extensions**.
2. Check the box next to **Developer Mode**.
3. Click **Load Unpacked Extension** and select the directory for your "Hello Extensions" extension.

Congratulations! You can now use your popup-based extension by clicking the [hello_world.png](#) icon or by pressing [Ctrl+Shift+F](#) on your keyboard.

What next?

1. Follow the [Getting Started tutorial](#)
2. Read the [Overview](#)
3. Keep up to date by reading the [Chromium blog](#)
4. Subscribe to the [chromium-extensions group](#)

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