

**Microsoft Edge Chromium
Google Chrome
Chromium OS
Chromebook**

What is all this chrome?

Microsoft Edge Chromium

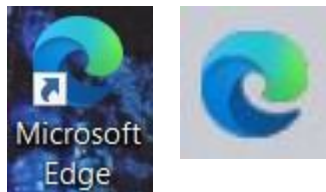
- Microsoft have released a completely new browser called **Microsoft Edge Chromium** which replaces the original version of Edge
- The update occurs automatically – you probably already have it
- The Edge app on smart phones and tablets will also be updated.

You will know when your PC has been updated to the new version of Edge when the icon on your Desktop/Task bar changes

The old icons



The new icons



What is Chromium?

- The V6 engine in the Toyota Aurion is the same as the Toyota Lexus, but the cars' features are otherwise quite different.
- A web page (or email) arrives at your device from the internet in a programming language such as HTML (HyperText Markup Language).
- Your browser, or email program such as Outlook renders these hieroglyphics into a nice viewable page that includes all the text, images, buttons and forms.
- You can see the HTML hieroglyphics behind a web page by right clicking on any part of the page, other than a link, and choosing "View source".
- This browser "engine" is the heart of a web browser. There are a number of different browser engines, all display and operate slightly differently to one another. Some browsers use the same engine.

Some of the HTML behind Google Search home page

```
<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="en-AU"><head><meta charset="UTF-8"><meta
content="/images/branding/googleg/1x/googleg_standard_color_128dp.png" itemprop="image"><title>Google</title><script
nonce="eJl4lJfwnVY0WbkdObfN9Q==">(function(){window.google={kEI:'vjpXXpbqCcrD3LUPpK-viAc',kEXPI:'31',kBL:'vgyK'};google.sn='we
bhp';google.kHL='en-AU';})();(function(){google.lc=[];google.li=0;google.getEI=function(a){for(var
b;a&&(!a.getAttribute||!(b=a.getAttribute("eid")));)a=a.parentNode;return b||google.kEI};google.getLEI=function(a){for(var
b=null;a&&(!a.getAttribute||!(b=a.getAttribute("leid")));)a=a.parentNode;return b};google.ml=function(){return
null};google.time=function(){return Date.now()};google.log=function(a,b,e,c,g){if(a=google.logUrl(a,b,e,c,g
```

Chromium

- Put simply, Chromium is a basic browser engine that conforms to display, privacy and security standards.
- Chromium is a free “open-source” project created by Google.
- Open-source simply means that it is free and the code can be used/viewed by anyone.
- Browser developers can use Chromium as a basis for building their browsers, so that web pages are displayed consistently across all chromium-based browsers.

Microsoft Edge now uses the Chromium engine

- Microsoft Edge Chromium uses the Chromium engine and wraps a whole lot of Microsoft features and settings around it.
- Microsoft say “We adopted the Chromium open source project in the development of the new Microsoft Edge to create better web compatibility for our customers, and less fragmentation of the web for all web developers.”

Google Chrome browser

- Google Chrome browser was developed by Google.
- It also uses the same Chromium engine.

Browser engines in use

Browser	Engine used
Microsoft's Internet Explorer	Microsoft Trident
Microsoft Edge (original)	Microsoft EdgeHTML
Apple's Safari	Apple Webkit
Mozilla Firefox	Mozilla Gecko
Tor Browser	Mozilla Gecko
Google Chrome	Google Chromium
Opera browser	Google Chromium
Chromium (on Chromebook PCs)	Google Chromium
Microsoft Edge Chromium	Google Chromium
Email	Engine used
Microsoft Outlook (desktop version)	Microsoft Word
Microsoft Outlook web app	Google Chromium
Mozilla Thunderbird	Mozilla Gecko
eM Client	Google Chromium

So what is “Chromium OS” and Chromebook?

- **Chromium OS**, also known as Chrome OS, is not just a web browser
- **It is a complete operating system for PCs**, offering an alternative to Microsoft Windows or Linux operating systems. It is simple, fast, secure, and reliable
- The heart of Chromium OS is the Chromium web browser engine

- Chromium OS is the operating system installed on a **Chromebook PC**
- For example, this [Lenovo](#) or [ASUS](#).

Lenovo Chromebook 12-inch Celeron/4GB/32GB eMMC Laptop

81MA000NAU 193638161493

★★★★★ (75) [Add a Review](#)



Asus Chromebook 11.6-inch Celeron-N3350/4GB/32GB eMMC Laptop

C223NA-GJ0032 4718017636025

★★★★★ [Add a Review](#)



- Chromebook PCs do not require much computing power, storage or memory capacity as the operating system is far less demanding than Windows, Linux, or MACOs
- So Chromebooks are inexpensive, typically under \$500

Chromium OS as a replacement for Windows

- If you have an old Windows PC with Windows XP, Windows Vista, or Windows 7, you can install a version of Chromium OS on it called [CloudReady](#)
- Cloudready has been designed to run on old Windows PCs that won't run Windows 10
- *CloudReady effectively turns your old Windows PC into a Chromebook*
- For example, it could replace Windows XP or Windows 7 on an old PC
- Cloudready was developed for old school and government PCs by the US-based [Neverware](#) company.

- Chromium OS is a good alternative to Microsoft Windows, particularly if you just need to access the web, use email, manage photos and and do basic word processing or spreadsheet work
- It is mainly web and cloud based, so you need an active internet connection to use it
- You can use your Google Drive files offline
- Microsoft OneDrive files are only available online
- The file system used is compatible with Windows so you can use USB storage devices interchangeably

- The CloudReady website contains instructions on how to download and set it up on a USB drive, and install it
- If you want to test out CloudReady, it can be run from the USB stick without interfering with your main hard drive
- If you choose to install it on your main hard drive, **everything** on the drive will be deleted
- So make sure all your important files are backed up
- You may need assistance installing Cloudready

- On a CloudReady or Chromebook PC, you use the basic **Chromium** web browser
- The browser looks and feels like Google Chrome browser that you are familiar with on Windows
- It contains the full suite of Google apps such as Drive, Docs, Photos, Gmail, Maps, Calendar, Contacts, etc.

- You **can't** install desktop applications such as Microsoft Office
- However, from the Chrome Web Store, you can obtain an Extension to Chromium that provides the [web-based version of Microsoft Office](#)
- If you have an Office 365 subscription, you can access the full features of Microsoft Office
- You can add more extensions and apps from the Chrome Web Store

- All you need to get going on CloudReady, or a Chromebook is a Google account and an internet connection
- Just sign in to your Google account, open the Chromium browser – your email, Drive files, Docs will be there and operate just like in Windows
- If you want to use Microsoft Office, you will need a Microsoft account

- Security is built in
- Simple to use compared to Windows
- Does not support all printers

- I am using here a 10 year old Lenovo PC
- It use to have Windows 10 but cannot cope with the latest versions
- The battery and keyboard are clapped out
- I replaced the Hard Disk (HDD) with a Solid State Drive (SSD)
- I installed Cloudready operating system on it

Let's take a look at it!