

EXPERIMENT-10

AIM: Install and Explore Selenium for Automated Testing

Objective: To install Selenium and explore its environment for automating web application testing.

Software Requirements

- Python installed (<https://www.python.org/downloads/>)
 - Selenium library installed
 - Web browser (Chrome, Firefox, etc.)
 - WebDriver for the browser (e.g., ChromeDriver)
 - Code editor (VS Code or any)
-

Lab Procedure

1. Install Python

- Download and install Python.
- Verify installation:

```
python --version
```

2. Install Selenium Library

- Use pip to install Selenium:

```
pip install selenium
```

3. Download WebDriver

- Download ChromeDriver from
- (<https://sites.google.com/chromium.org/driver/>) or appropriate WebDriver for your browser.
- Place the WebDriver executable in your system PATH or project directory.

Google chrome driver for selenium

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Chrome for Developers
https://developer.chrome.com/docs/chromedriver

Downloads | ChromeDriver - Chrome for Developers

17 Dec 2024 — Resolved issue 3515: `selenium.common.exceptions.WebDriverException: Message: unknown error: bad inspector message`. For more details, see the ...

Version selection >
Version selection is the process of matching a Chrome binary of a ...

Get started with ChromeDriver >
ChromeDriver is a separate executable that Selenium ...

Open the 1st link.

ChromeDriver

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Design docs

Download ChromeDriver

Chrome version 115+

▼ Earlier Chrome

Stable Releases

Canary Releases

Version selection

Get started

Desktop

Home > Docs > ChromeDriver

Was this helpful?

Downloads

Warning: If you're using Chrome version 115 or newer, consult the [Chrome for Testing availability dashboard](#). On this dashboard, you'll find [JSON endpoints](#) to download specific ChromeDriver versions.

Earlier Chrome versions

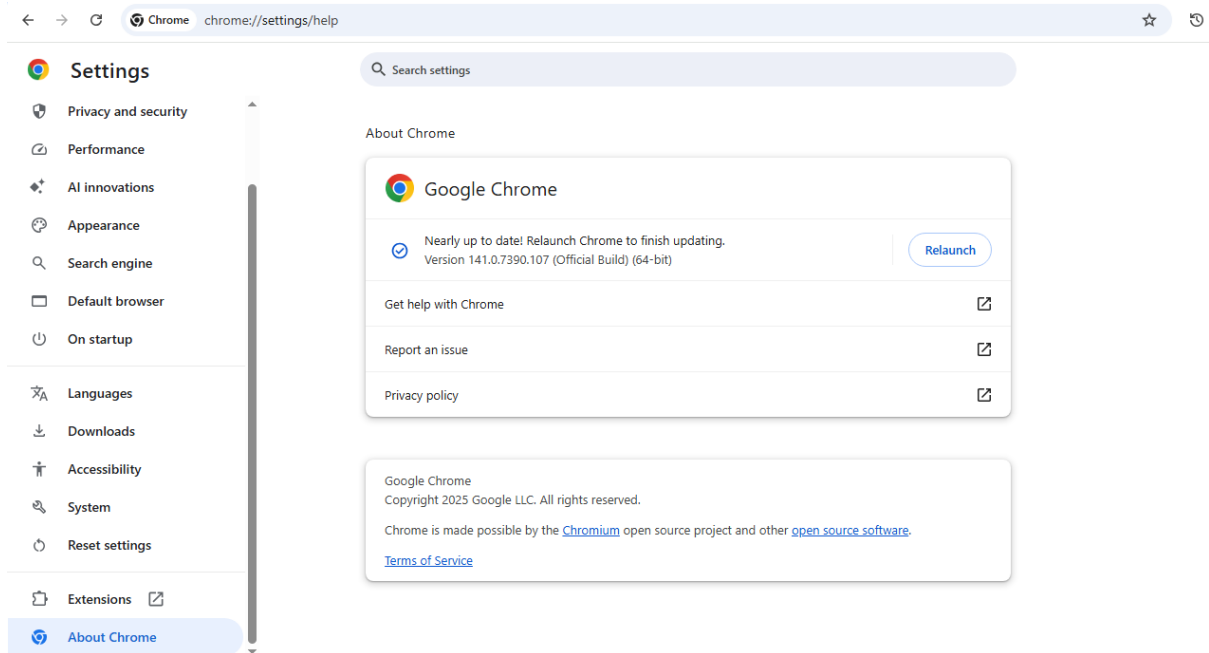
For earlier versions of Chrome, here are the versions of ChromeDriver that support it.

For more information on selecting the right version of ChromeDriver, see the [Version Selection](#) page.

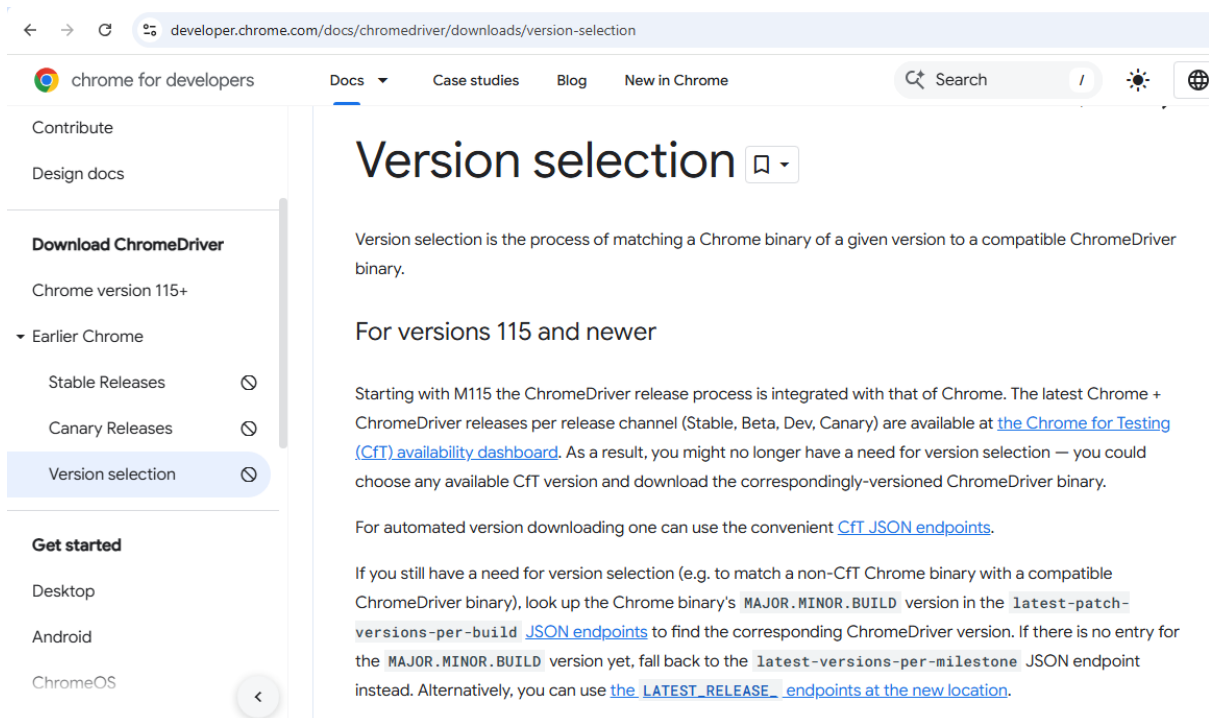
ChromeDriver 114.0.5735.90

Supports Chrome version 114

Click on version selection and check your version in chrome by
`chrome://settings/help`



Click on the **Chrome for Testing (CfT) availability dashboard**.



Click on **Stable**

Chrome for Testing availability

This page lists the latest available cross-platform Chrome for Testing versions and assets per Chrome release channel.

Consult [our JSON API endpoints](#) if you're looking to build automated scripts based on Chrome for Testing release data.

Last updated @ 2025-10-23T09:10:11.440Z

Channel	Version	Revision	Status
Stable	141.0.7390.122	r1509326	✓
Beta	142.0.7444.52	r1522585	✓
Dev	143.0.7475.7	r1530564	✓
Canary	143.0.7488.0	r1533544	✓

Binary	Platform	URL	HTTP status
chrome	linux64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/linux64/chrome-linux64.zip	200
chrome	mac-arm64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-arm64/chrome-mac-arm64.zip	200
chrome	mac-x64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-x64/chrome-mac-x64.zip	200
chrome	win32	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win32/chrome-win32.zip	200
chrome	win64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win64/chrome-win64.zip	200
chromedriver	linux64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/linux64/chromedriver-linux64.zip	200
chromedriver	mac-arm64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-arm64/chromedriver-mac-arm64.zip	200
chromedriver	mac-x64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-x64/chromedriver-mac-x64.zip	200
chromedriver	win32	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win32/chromedriver-win32.zip	200
chromedriver	win64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win64/chromedriver-win64.zip	200
chrome-headless-shell	linux64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/linux64/chrome-headless-shell-linux64.zip	200
chrome-headless-shell	mac-arm64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-arm64/chrome-headless-shell-mac-arm64.zip	200
chrome-headless-shell	mac-x64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-x64/chrome-headless-shell-mac-x64.zip	200
chrome-headless-shell	win32	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win32/chrome-headless-shell-win32.zip	200
chrome-headless-shell	win64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win64/chrome-headless-shell-win64.zip	200

- Select according to you Operating System and Copy and paste chromedriver link in chrome it will download automatically.
- The file will be downloaded, extract the files and set the path of chromedriver.exe in system environment variables

- Verify chromeDriver installation
chromeDriver –version

- Open a VS code and create a python file and Add the following code

```
from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
import time

# Specify the correct path to your ChromeDriver
chrome_service = Service("C:\\Program Files\\chromedriver-
win64\\chromedriver.exe")

# Set up the WebDriver for Chrome
driver = webdriver.Chrome(service=chrome_service)

try:
    # Step 1: Open Google in the browser
    driver.get("https://www.google.com")

    # Step 2: Locate the search box using the name attribute
    search_box = driver.find_element(By.NAME, "q")

    # Step 3: Enter the search term and press Enter
    search_box.send_keys("https://cmrcet.ac.in/")
    search_box.send_keys(Keys.RETURN)

    # Optional: Wait for a few seconds to see the search results
    time.sleep(20)

finally:
    # Step 4: Close the browser
    driver.quit()
```

Make sure to change the path of the driver in the code to avoid errors

- Run the code

OUTPUT

Chrome is being controlled by automated test software.

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CMR College of Engineering and Technology. Examination Results. CMRCET Results. Exam Year, All, 2025, 2024, 2023. Filters: All; B.Tech; MBA; M.Tech; M.Tech. All

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https://cmrcet.ac.in/admissions-2025-26

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