

# Selenium

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## Selenium ?

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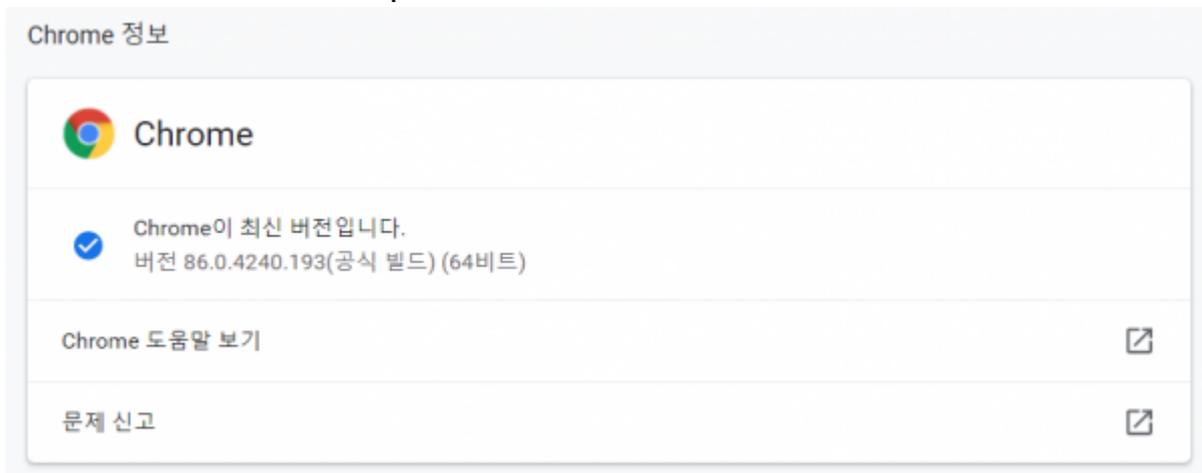
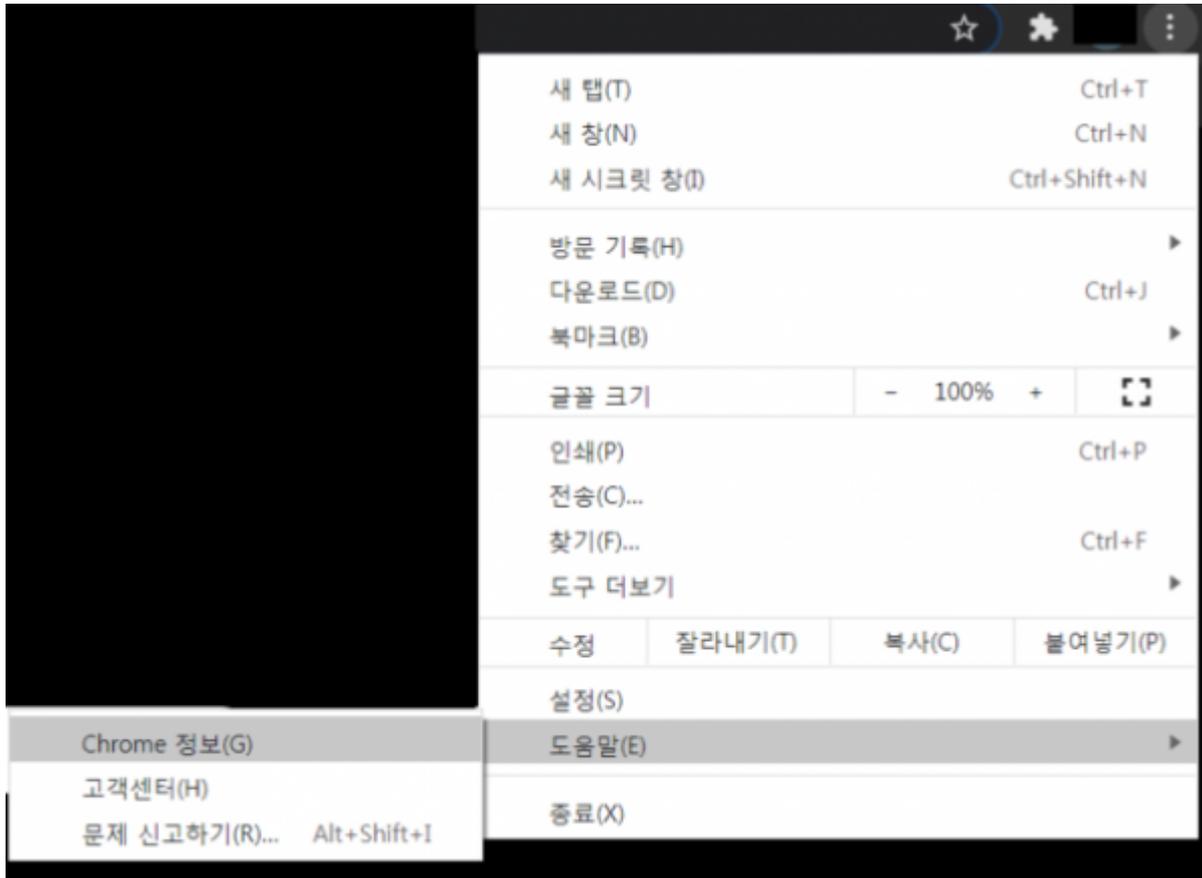
API

- firefox
- Chrome
- safari
- IE
- 

Tip

Drive가 가

## Chrome Driver Download



driver

Chrome

**ChromeDriver - WebDriver for Chrome**

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## Downloads

### Current Releases

- If you are using Chrome version 87, please download ChromeDriver 87.0.4280.20
- If you are using Chrome version 86, please download ChromeDriver 86.0.4240.22
- If you are using Chrome version 85, please download ChromeDriver 85.0.4183.87
- For older version of Chrome, please see below for the version of ChromeDriver that supports it.

If you are using Chrome from Dev or Canary channel, please following instructions on the [ChromeDriver Canary](#) page.

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

## Selenium java code

```
package main;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class SeleniumTest
{

    public static void main(String[] args)
    {
        // TODO Auto-generated method stub
        chromTest();
    }

    public static void chromTest() throws IllegalStateException
    {
        WebDriver driver = null;
        try
        {
            // drvier -
            System.setProperty("webdriver.chrome.driver",
"D:\\eclipse_repository\\eGovFrameDev-3.9.0-64bit\\workspace\\parsingApi\\ut
il\\chromedriver.exe");
            // Chrome
            driver = new ChromeDriver();
            //
            JavascriptExecutor js = (JavascriptExecutor) driver;
```

```
// element
//
//      js.executeScript("arguments[0].click();", element);

//      URL
//      URL
driver.get(
"https://www.google.com/search?q=%EA%B5%AC%EA%B8%80%EB%B2%88%EC%97%AD&oq=%EA
%B5%AC%EA%B8%80%EB%B2%88%EC%97%AD&aqs=chrome..69i57j35i39j0l4.2179j0j7&sourc
eid=chrome&ie=UTF-8");
//
driver.manage().timeouts().implicitlyWait(2, TimeUnit.SECONDS);
// xpath      selector.
WebElement element = driver.findElement(By.xpath("//*[@id='tw-
source-text-ta']"));

// test
String[] s_array = new String[2];
s_array[0] = "This book aims to strengthen an understanding of
the sculptural possibilities of form and space through developing a visual
language and structure that recognizes and ";
s_array[1] = "gives priority to 3dimensional visual perception
It is written so as to apply to both the active process of shaping 3D form
and space and analyzing any existing visual situation Introduction";

//

for (String aa : s_array)
{

    element.sendKeys(aa);

    //
    Thread.sleep(1000);

    // css      selector.
    WebElement elementd =
driver.findElement(By.cssSelector("#tw-target-text > span"));

    System.out.println("elementd : " + elementd.getText());

    // element
    element.clear();
}

} catch (Throwable e)
{
    e.printStackTrace();
} finally
{
}
```

```
        driver.close();

        // test
        System.exit(0);
    }

//
}

}
```

## consol

elementd : . elementd : 3 3 가

## Troubleshooting

## Ref

, java, selenium

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