

# Selenium

- description :
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## Selenium ?

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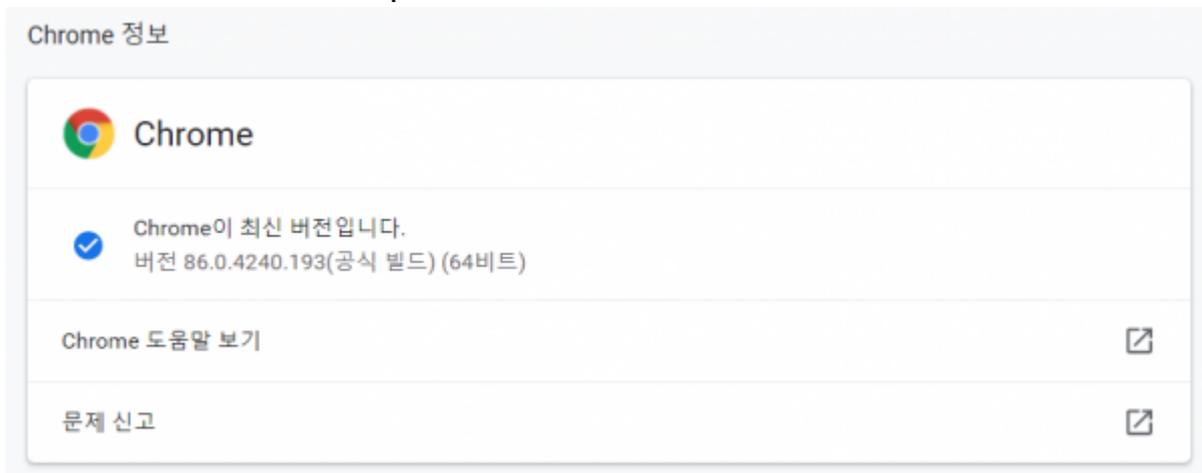
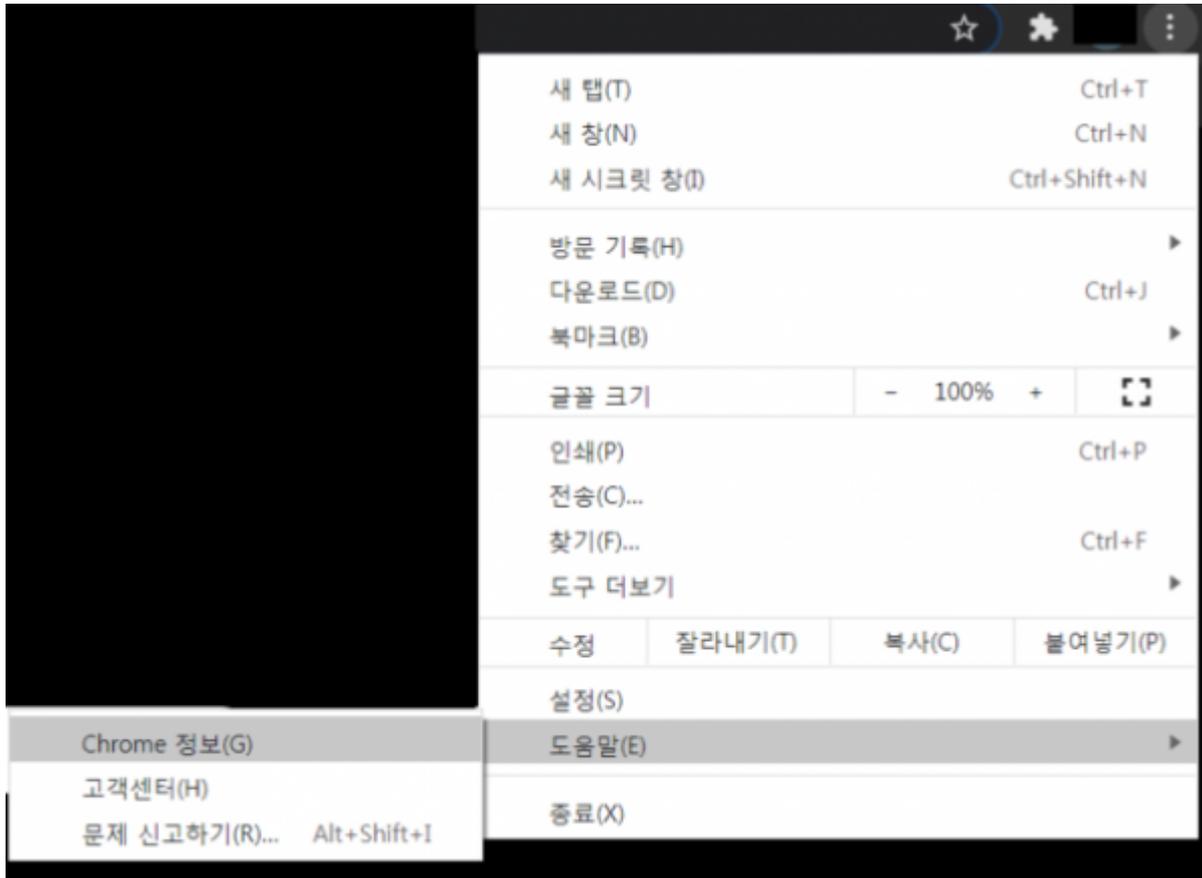
API

- firefox
- Chrome
- safari
- IE
- 

Tip

Drive가 가

## Chrome Driver Download



driver

Chrome

## maven

```
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-java</artifactId>
  <version>2.35.0</version>
</dependency>
```

## 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
    {
        // driver -
        System.setProperty("webdriver.chrome.driver",
"D:\\eclipse_repository\\eGovFrameDev-3.9.0-64bit\\workspace\\parsingApi\\util\\chromedriver.exe");
        // Chrome
        driver = new ChromeDriver();

        //          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&sourceid=chrome&ie=UTF-8");
        //
        driver.manage().timeouts().implicitlyWait(2, TimeUnit.SECONDS);
        // xpath      selector.
        WebElement element;

        // test
        String[] s_array = new String[3];
        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";
        s_array[2] = "收費服務，可用於單詞，詞組和";

        // *[@id="tw-sl"]/span[1]

        //
        for (String str : s_array)
        {
            //
            element = driver.findElement(By.xpath("//*[@id='tw-
sl']/span[1]"));
            //
            element.click();

            Thread.sleep(1000);

            //
            element = driver.findElement(By.xpath(
                "//*[@id='tw-container']/g-expandable-
container/div/div/div[6]/g-expandable-container/div/g-expandable-
content/span/div/div[3]/div[1]/div/div[1]/div[2]"));
            //

```

```
        element.click();
        //      input
        element = driver.findElement(By.xpath("//*[@id='tw-source-
text-ta']"));
        //      input
        element.sendKeys(str);
        //
        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 : 가
elementd : 3 3
elementd : , ,
```

## Tip

# Troubleshooting

## Ref

, [java](#), [selenium](#)

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