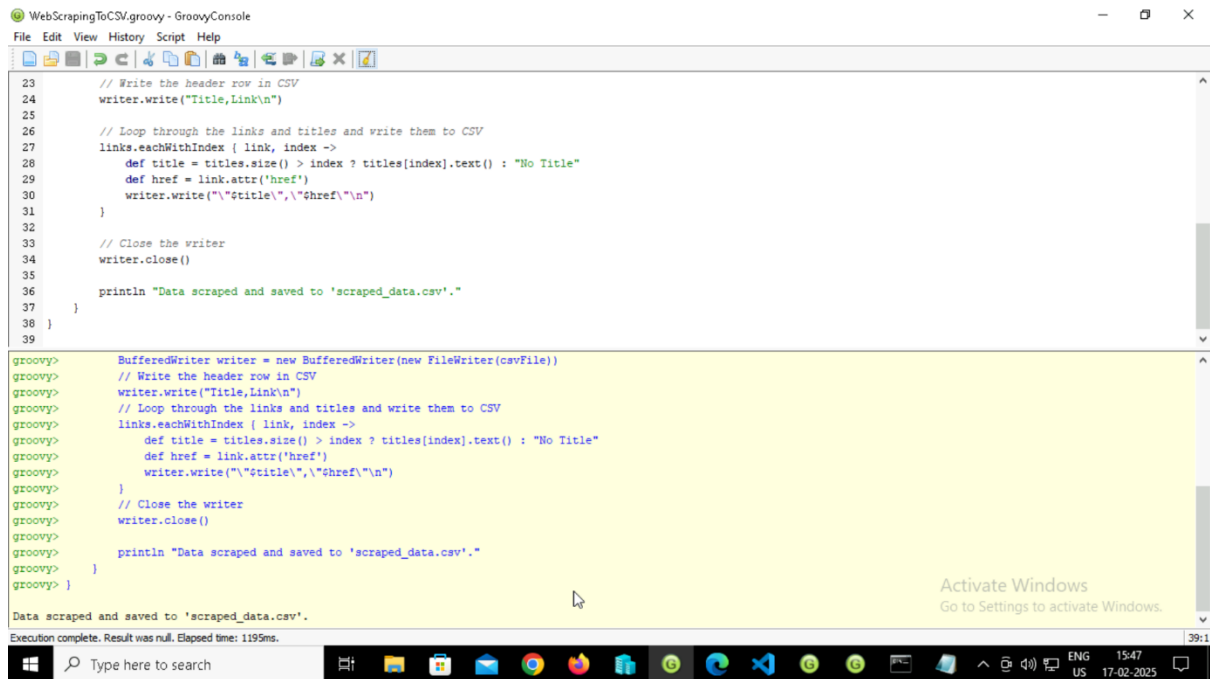


# Web Scraping with Groovy & Jsoup

## Step 1: Run the script in groovy



The screenshot shows a Groovy IDE window titled "WebScrapingToCSV.groovy - GroovyConsole". The script defines a CSV file, writes a header, loops through links and titles, and saves the data. The execution output shows the script running successfully and saving data to "scraped\_data.csv".

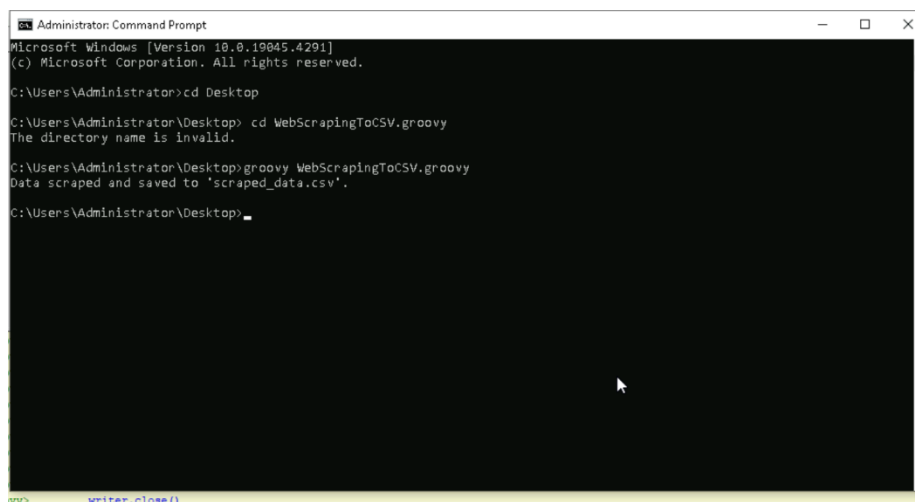
```
23 // Write the header row in CSV
24 writer.write("Title,Link\n")
25
26 // Loop through the links and titles and write them to CSV
27 links.eachWithIndex { link, index ->
28     def title = titles.size() > index ? titles[index].text() : "No Title"
29     def href = link.attr('href')
30     writer.write("\"%title\", \"%href\"\n")
31 }
32
33 // Close the writer
34 writer.close()
35
36 println "Data scraped and saved to 'scraped_data.csv'."
37 }
38 }
39 }
```

```
groovy> BufferedWriter writer = new BufferedWriter(new FileWriter(csvFile))
groovy> // Write the header row in CSV
groovy> writer.write("Title,Link\n")
groovy> // Loop through the links and titles and write them to CSV
groovy> links.eachWithIndex { link, index ->
groovy>     def title = titles.size() > index ? titles[index].text() : "No Title"
groovy>     def href = link.attr('href')
groovy>     writer.write("\"%title\", \"%href\"\n")
groovy> }
groovy> // Close the writer
groovy> writer.close()
groovy> println "Data scraped and saved to 'scraped_data.csv'."
groovy> }
groovy> }
```

Data scraped and saved to 'scraped\_data.csv'.

Execution complete. Result was null. Elapsed time: 1195ms.

## Step 2: Run the script in terminal



The screenshot shows a Windows Command Prompt window titled "Administrator: Command Prompt". The user navigates to the Desktop directory and runs the Groovy script. The output shows the script running successfully and saving data to "scraped\_data.csv".

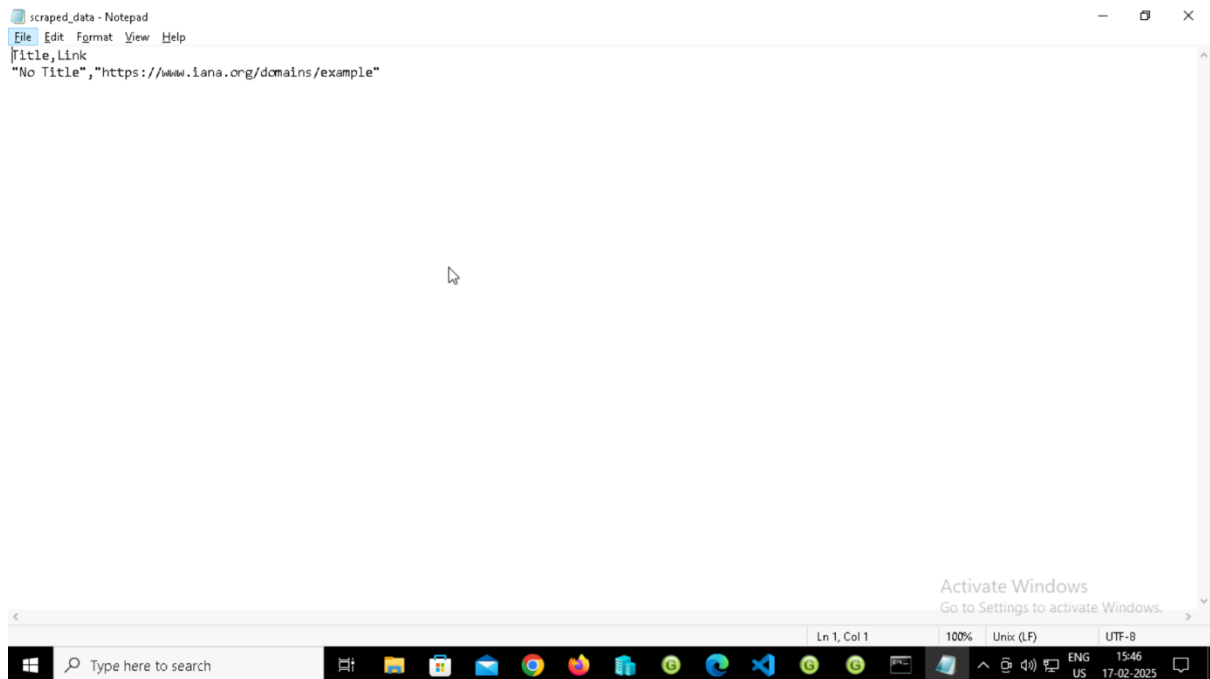
```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19045.4291]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator>cd Desktop
C:\Users\Administrator\Desktop> cd WebScrapingToCSV.groovy
The directory name is invalid.

C:\Users\Administrator\Desktop>groovy WebScrapingToCSV.groovy
Data scraped and saved to 'scraped_data.csv' .

C:\Users\Administrator\Desktop>_
```

### Step 3: Output



```
scraped_data - Notepad
File Edit Format View Help
title,Link
"No Title", "https://www.iana.org/domains/example"
```

Activate Windows  
Go to Settings to activate Windows.

Ln 1, Col 1 100% Unix (LF) UTF-8

Type here to search

ENG US 15:46 17-02-2025