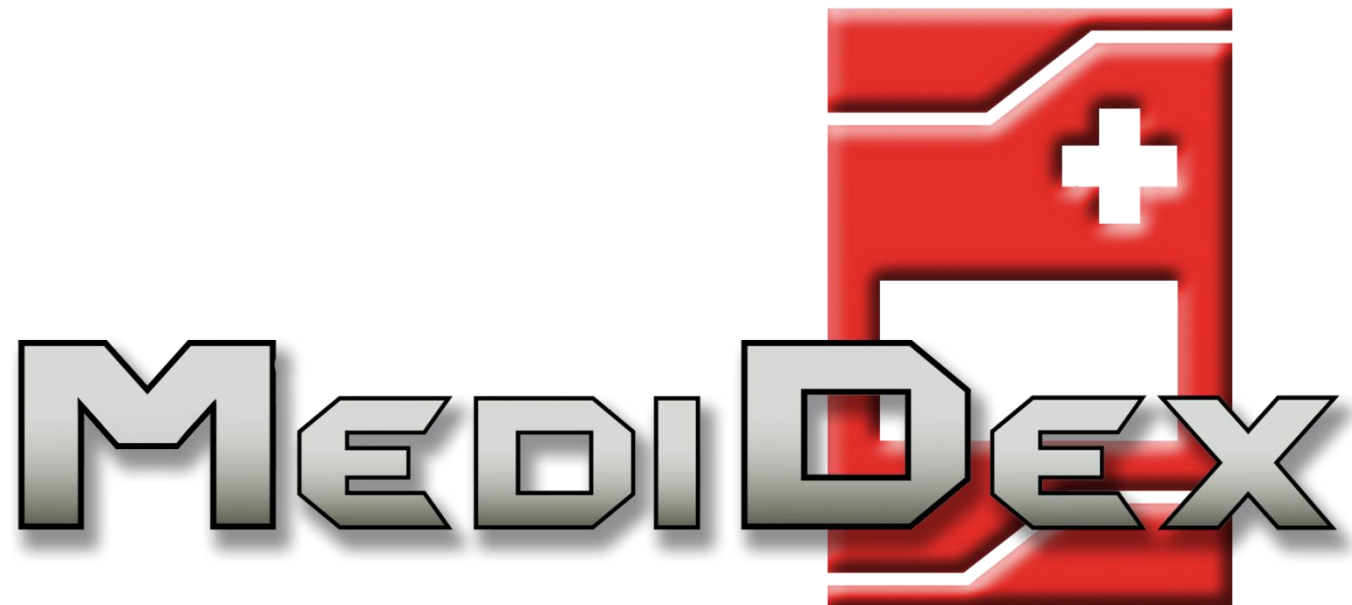


Einführung

Selenium

- IDE
- Befehle
- DEMO

# Automatisierte GUI Tests



## Einführung

## Selenium

- IDE
- Befehle
- DEMO

# Automatisierte Tests

- JUnit
  - Tests für Java
  - Eclipse Plug-in
- Selenium
  - GUI Test von Webseiten
  - WebDriver für (fast) alle Browser
  - Selenium IDE als Plug-in für Firefox
- ...



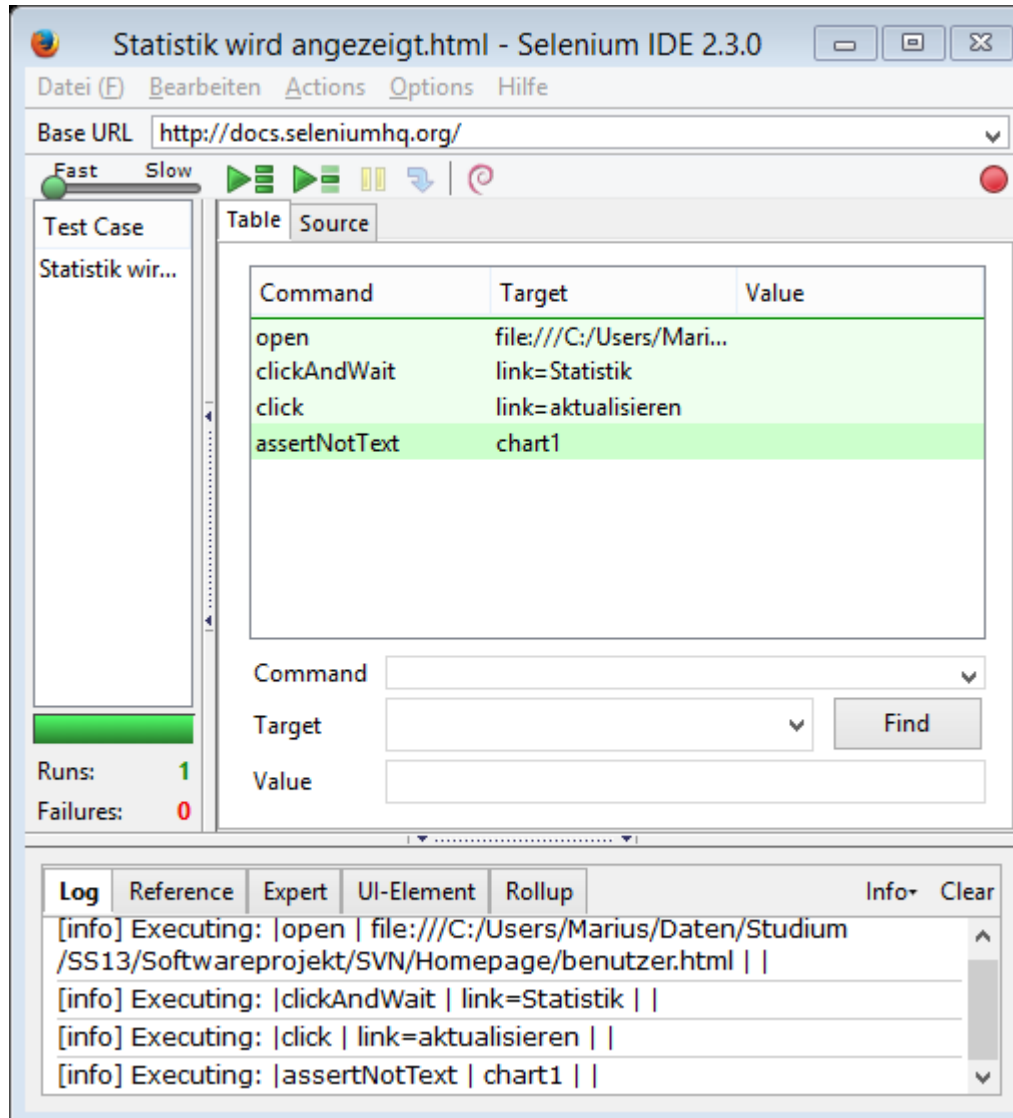


## Einführung

## Selenium

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# Selenium IDE



The screenshot shows the Selenium IDE 2.3.0 interface. The title bar indicates the current test case is 'Statistik wird angezeigt.html'. The menu bar includes 'Datei (F)', 'Bearbeiten', 'Actions', 'Options', and 'Hilfe'. The 'Base URL' is set to 'http://docs.seleniumhq.org/'.

The main workspace is divided into two tabs: 'Table' and 'Source'. The 'Table' tab is active, displaying a table of test steps:

Command	Target	Value
open	file:///C:/Users/Mari...	
clickAndWait	link=Statistik	
click	link=aktualisieren	
assertNotText	chart1	

Below the table, there are input fields for 'Command', 'Target', and 'Value', along with a 'Find' button. The 'Command' field is currently empty.

On the left side, the 'Test Case' list shows 'Statistik wird...' with a green bar indicating it is the selected case. Below this, the status shows 'Runs: 1' and 'Failures: 0'.

At the bottom, the 'Log' tab is active, showing a list of execution logs:

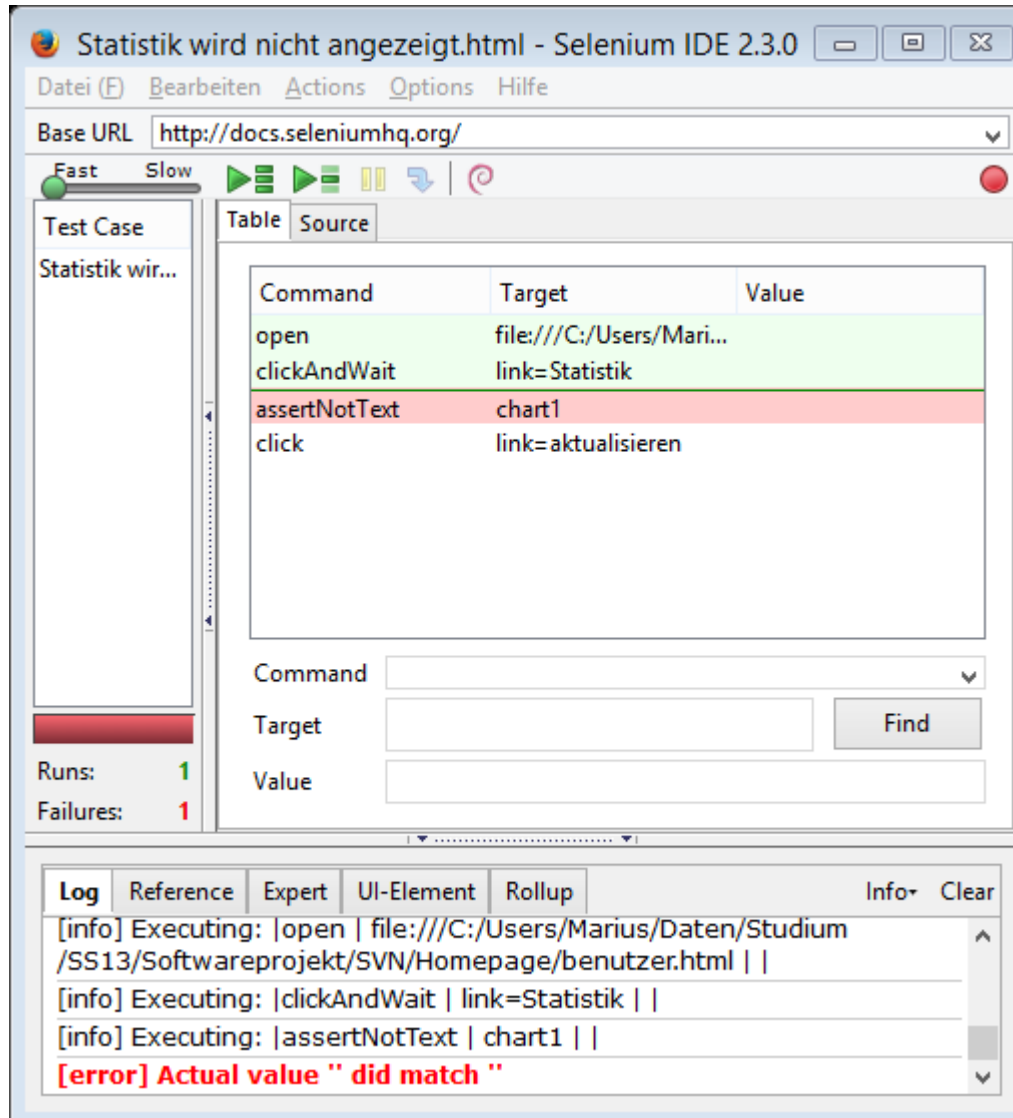
- [info] Executing: | open | file:///C:/Users/Marius/Daten/Studium/SS13/Softwareprojekt/SVN/Homepage/benutzer.html | |
- [info] Executing: | clickAndWait | link=Statistik | |
- [info] Executing: | click | link=aktualisieren | |
- [info] Executing: | assertNotText | chart1 | |

## Einführung

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# Selenium IDE



Statistik wird nicht angezeigt.html - Selenium IDE 2.3.0

Datei (F) Bearbeiten Actions Options Hilfe

Base URL

Fast Slow

Test Case

Statistik wir...

Command	Target	Value
open	file:///C:/Users/Mari...	
clickAndWait	link=Statistik	
assertNotText	chart1	
click	link=aktualisieren	

Command

Target  Find

Value

Runs: 1

Failures: 1

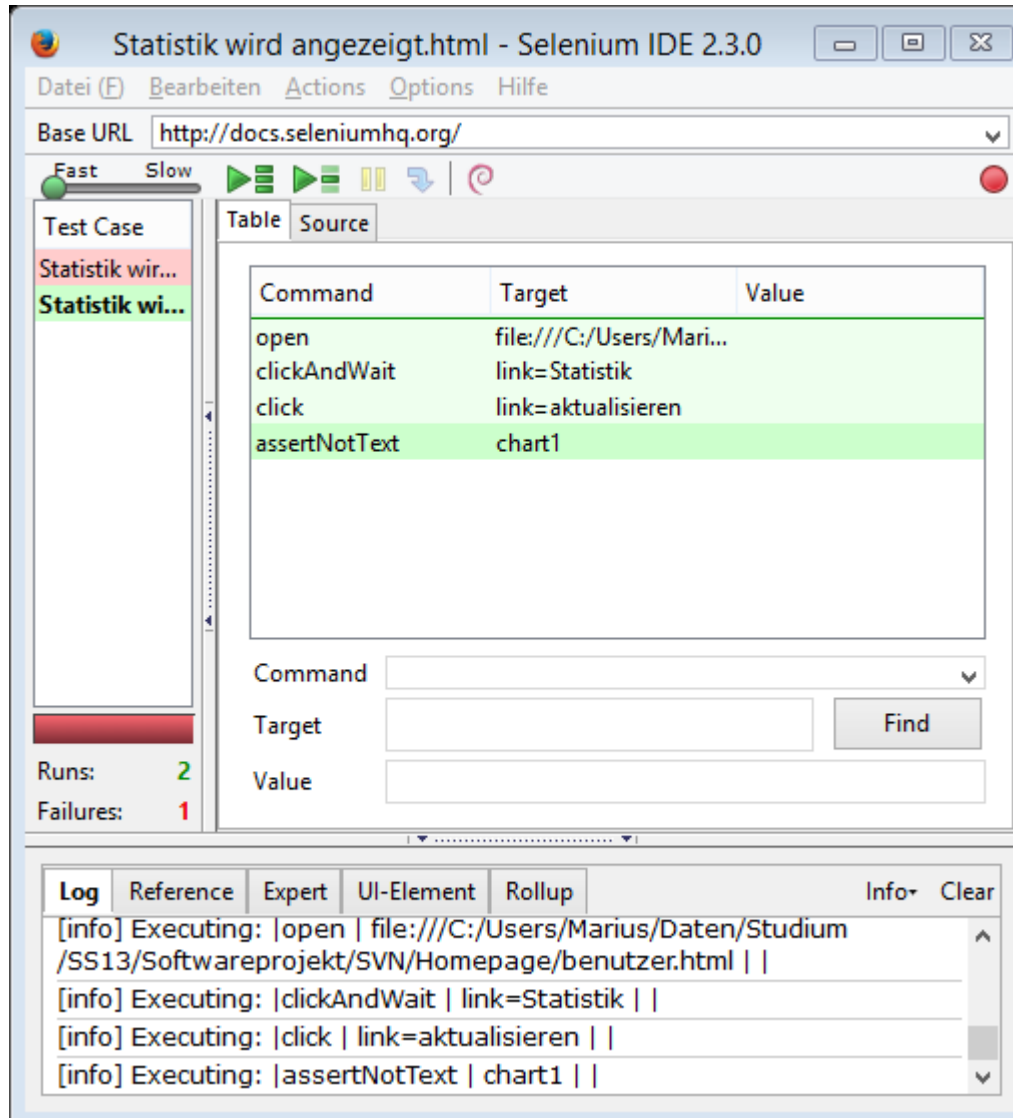
Log	Reference	Expert	UI-Element	Rollup	Info	Clear
[info] Executing:   open   file:///C:/Users/Marius/Daten/Studium/SS13/Softwareprojekt/SVN/Homepage/benutzer.html						
[info] Executing:   clickAndWait   link=Statistik						
[info] Executing:   assertNotText   chart1						
[error] Actual value " did match ""						

## Einführung

## Selenium

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# Selenium IDE



The screenshot shows the Selenium IDE 2.3.0 interface. The title bar indicates the current test case is 'Statistik wird angezeigt.html'. The menu bar includes 'Datei (F)', 'Bearbeiten', 'Actions', 'Options', and 'Hilfe'. The 'Base URL' is set to 'http://docs.seleniumhq.org/'.

The main workspace is divided into two panes: 'Table' and 'Source'. The 'Table' pane displays a list of commands for the test case 'Statistik wird angezeigt.html'.

Command	Target	Value
open	file:///C:/Users/Mari...	
clickAndWait	link=Statistik	
click	link=aktualisieren	
assertNotText	chart1	

Below the table, there are input fields for 'Command', 'Target', and 'Value', along with a 'Find' button.

The bottom pane shows the 'Log' tab, which contains the following entries:

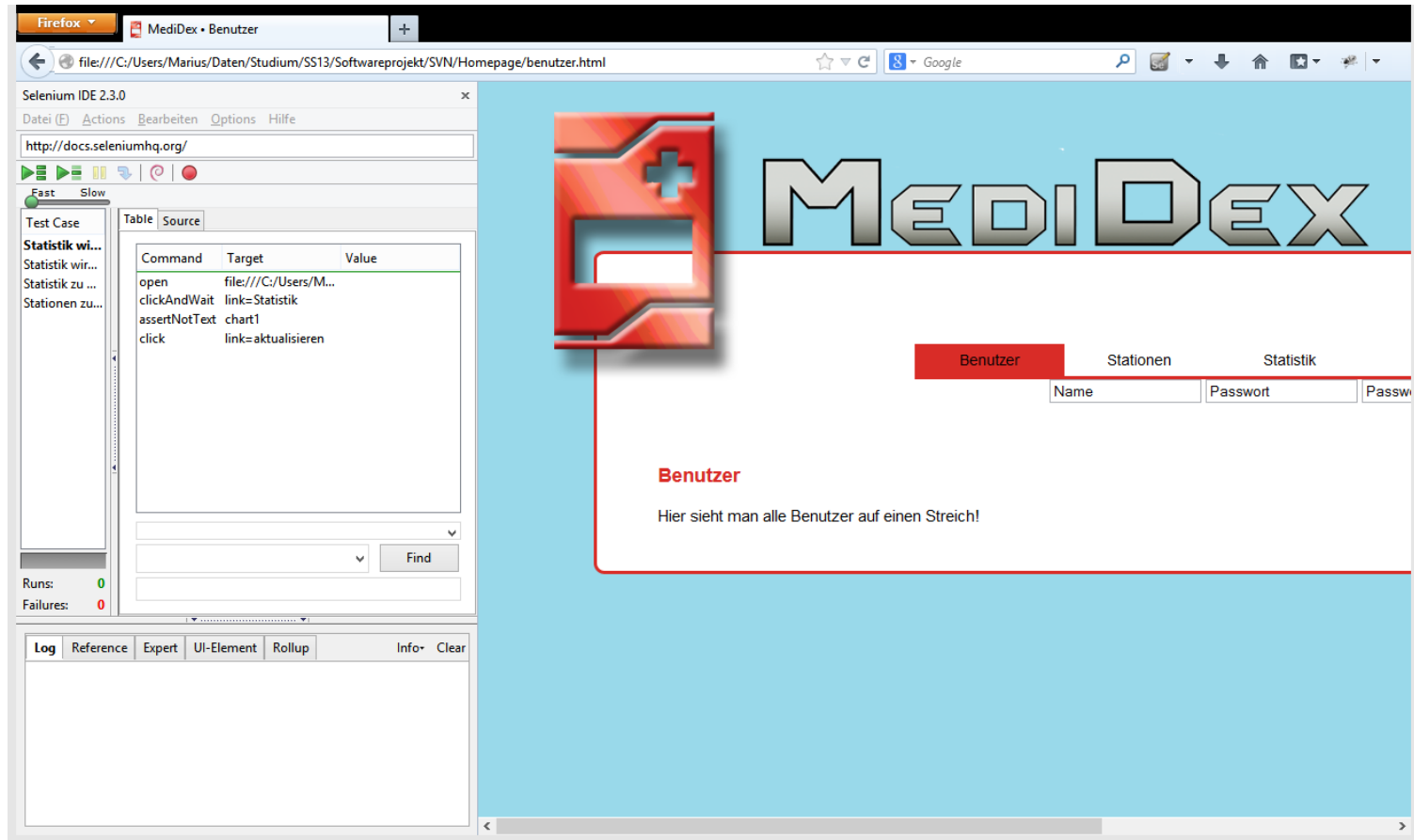
- [info] Executing: | open | file:///C:/Users/Marius/Daten/Studium/SS13/Softwareprojekt/SVN/Homepage/benutzer.html | |
- [info] Executing: | clickAndWait | link=Statistik | |
- [info] Executing: | click | link=aktualisieren | |
- [info] Executing: | assertNotText | chart1 | |

## Einführung

## Selenium

- IDE
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# Selenium IDE



The screenshot shows the Selenium IDE 2.3.0 interface. The main window displays a web browser with the MediDex application. The application has a header with a red cross icon and the text "MediDex". Below the header, there are three tabs: "Benutzer", "Stationen", and "Statistik". The "Benutzer" tab is selected, showing a form with fields for "Name", "Passwort", and "Passw". Below the form, there is a red box with the text "Benutzer" and "Hier sieht man alle Benutzer auf einen Streich!".

The Selenium IDE interface on the left shows a test case named "Statistik wi...". The test case contains the following commands:

Command	Target	Value
open	file:///C:/Users/M...	
clickAndWait	link=Statistik	
assertNotText	chart1	
click	link=aktualisieren	

The bottom of the Selenium IDE interface shows a log area with tabs for "Log", "Reference", "Expert", "UI-Element", "Rollup", "Info", and "Clear".

## Einführung

## Selenium

- IDE
- **Befehle**
- DEMO

# Befehle

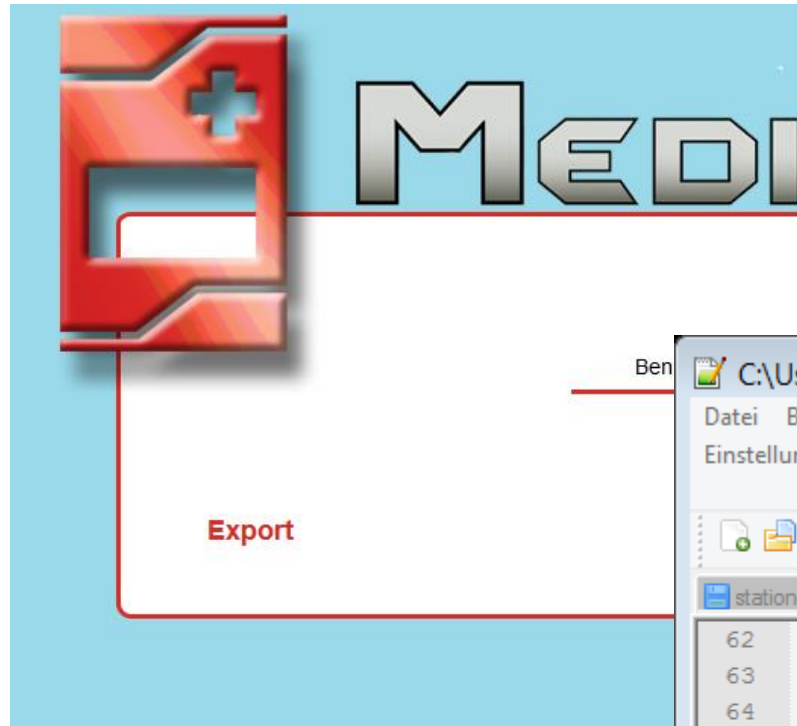
- **open**: Eine Seite wird geöffnet.
- **clickAndWait**: Es wird auf eine Schaltfläche geklickt und gewartet, bis die neue Seite geladen ist.
- **click**: Es wird auf eine Schaltfläche geklickt.
- **verifyTitle**: Überprüft den Titel der Seite.
- **verifyTextPresent**: Überprüft ob ein Text auf der Seite auftaucht.
- **verifyText**: Überprüft, ob in einem HTML-Tag ein bestimmter Text steht.

## Einführung

## Selenium

- IDE
- **Befehle**
- DEMO

# Befehle



Ben

```

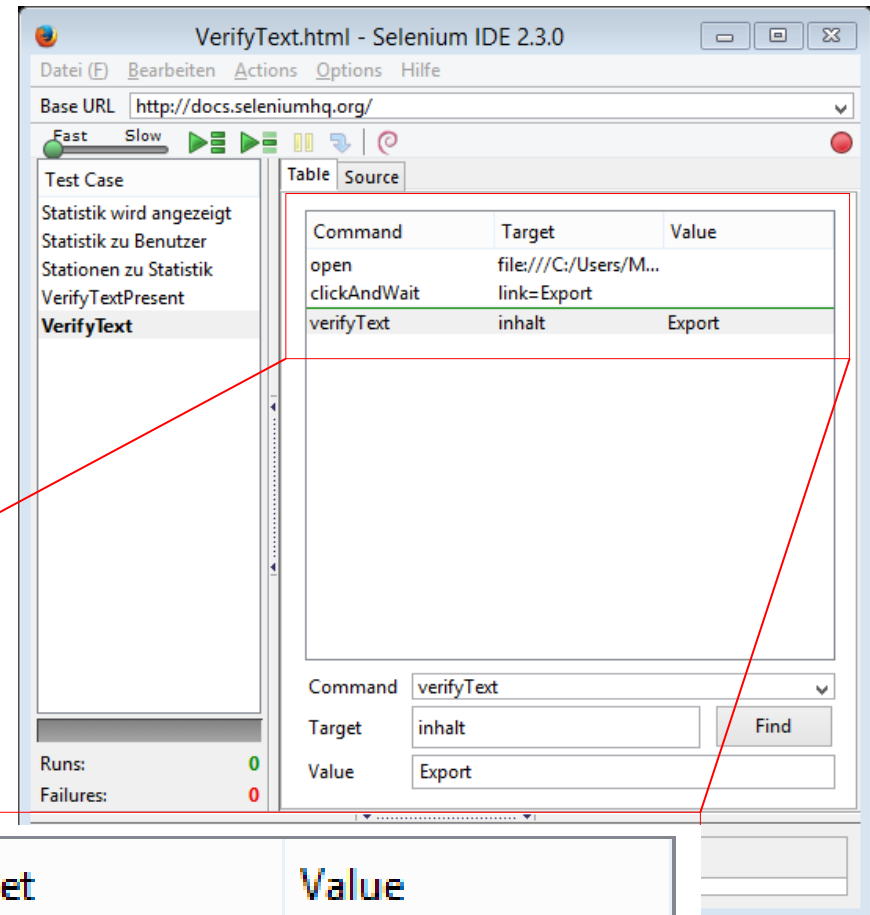
C:\Users\Marius\Daten\Studium\SS1...
Datei Bearbeiten Suchen Ansicht Kodierung Sprachen
Einstellungen Makro Ausführen Erweiterungen Fenster ?
stationen.html x logout.html x export.html x benutze
62      </ul>
63      </div>
64    </div>
65    <div id="inhalt_hintergrund">
66      <div id="inhalt">
67        <h3>Export</h3>
68      </div>
69    </div>
70    <div id="fuss_hintergrund">
71      </div>
72    </div>
Ln : 51 Col : 22 Dos\Windows ANSI as UTF-8 INS
  
```

## Einführung

## Selenium

- IDE
- **Befehle**
- DEMO

# Befehle



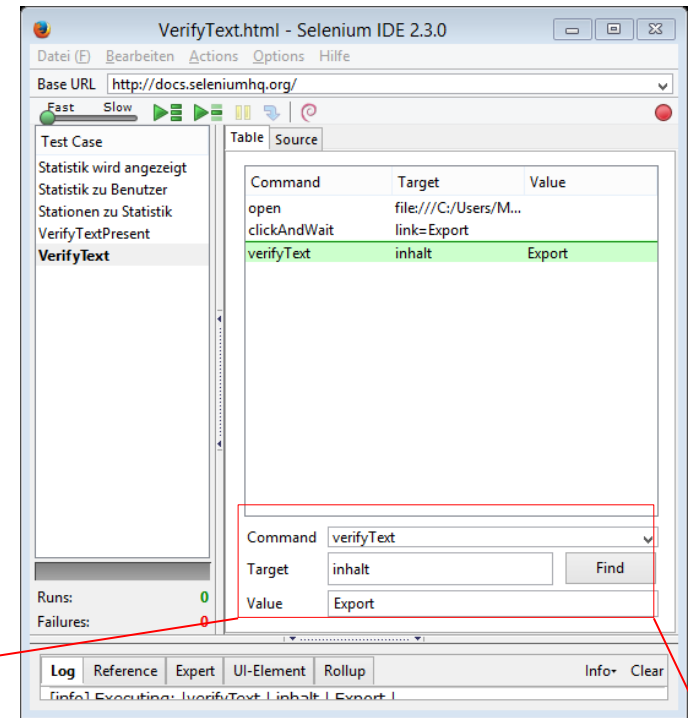
Command	Target	Value
open	file:///C:/Users/M...	
clickAndWait	link=Export	
verifyText	inhalt	Export

## Einführung

## Selenium

- IDE
- **Befehle**
- DEMO

# Befehle



Command:

Target:

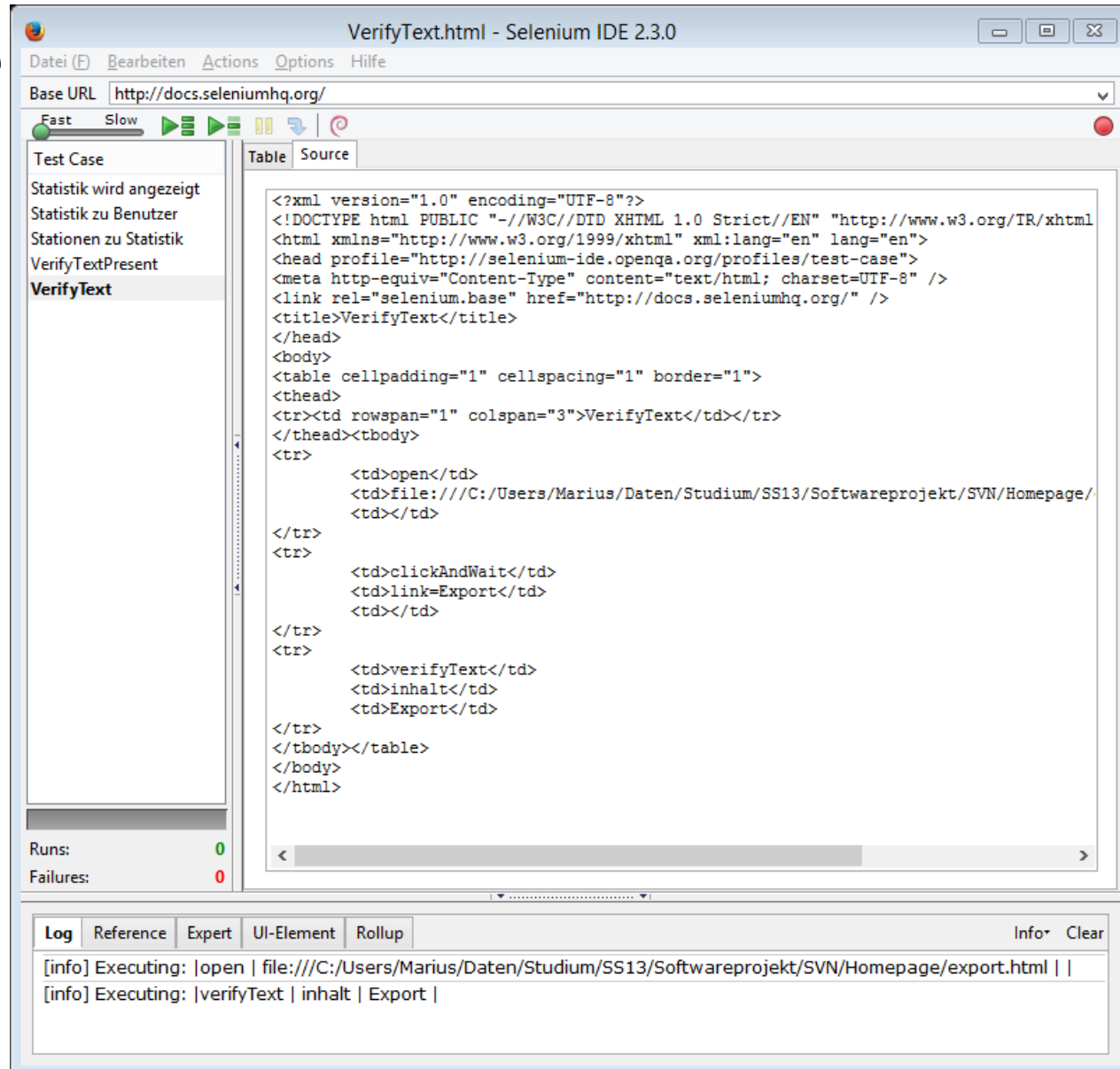
Value:

## Einführung

## Selenium

- IDE
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# Befehle



The screenshot shows the Selenium IDE 2.3.0 interface. The title bar is "VerifyText.html - Selenium IDE 2.3.0". The menu bar includes "Datei (F)", "Bearbeiten", "Actions", "Options", and "Hilfe". The "Base URL" is set to "http://docs.seleniumhq.org/". The "Test Case" list on the left includes "Statistik wird angezeigt", "Statistik zu Benutzer", "Stationen zu Statistik", "VerifyTextPresent", and "VerifyText". The "VerifyText" test case is selected, and its source code is displayed in the main area. The source code is an HTML document with a table containing test steps. The log at the bottom shows the execution of these steps.

**Test Case:** VerifyText

**Source:**

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head profile="http://selenium-ide.openga.org/profiles/test-case">
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<link rel="selenium.base" href="http://docs.seleniumhq.org/" />
<title>VerifyText</title>
</head>
<body>
<table cellpadding="1" cellspacing="1" border="1">
<thead>
<tr><td rowspan="1" colspan="3">VerifyText</td></tr>
</thead><tbody>
<tr>
<td>open</td>
<td>file:///C:/Users/Marius/Daten/Studium/SS13/Softwareprojekt/SVN/Homepage/export.html</td>
<td></td>
</tr>
<tr>
<td>clickAndWait</td>
<td>link=Export</td>
<td></td>
</tr>
<tr>
<td>verifyText</td>
<td>inhalt</td>
<td>Export</td>
</tr>
</tbody></table>
</body>
</html>
```

**Log:**

```
[info] Executing: |open| file:///C:/Users/Marius/Daten/Studium/SS13/Softwareprojekt/SVN/Homepage/export.html | |
[info] Executing: |verifyText| inhalt | Export |
```



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DEMO