

Selenium

Selenium

Edward Cerullo

www.thecamp.dk

2014

Selenium



What is Selenium?



What is Selenium?

Periodic Table of the Elements

1 1H H	2 4He He											13 13Al Al	14 14Si Si	15 15P P	16 16S S	17 17Cl Cl	18 18Ar Ar														
3 3Li Li	4 4Be Be											19 19K K	20 20Ca Ca	21 21Sc Sc	22 22Ti Ti	23 23V V	24 24Cr Cr	25 25Mn Mn	26 26Fe Fe	27 27Co Co	28 28Ni Ni	29 29Cu Cu	30 30Zn Zn	31 31Ga Ga	32 32Ge Ge	33 33As As	34 34Se Se	35 35Br Br	36 36Kr Kr		
5 5Na Na	6 6Mg Mg	7 7Y Y	8 8Zr Zr	9 9Nb Nb	10 10Mo Mo	11 11Tc Tc	12 12Ru Ru	13 13Rh Rh	14 14Pd Pd	15 15Ag Ag	16 16Cd Cd	17 17In In	18 18Sn Sn	19 19Sb Sb	20 20Te Te	21 21I I	22 22Xe Xe														
9 9Fr Fr	10 10Ra Ra	11 11La La	12 12Ce Ce	13 13Pr Pr	14 14Nd Nd	15 15Pm Pm	16 16Sm Sm	17 17Eu Eu	18 18Gd Gd	19 19Tb Tb	20 20Dy Dy	21 21Ho Ho	22 22Er Er	23 23Tm Tm	24 24Yb Yb	25 25Lu Lu	26 26Ac Ac	27 27Th Th	28 28Pa Pa	29 29U U	30 30Np Np	31 31Pu Pu	32 32Am Am	33 33Cm Cm	34 34Bk Bk	35 35Cf Cf	36 36Es Es	37 37Fm Fm	38 38Md Md	39 39No No	40 40Lr Lr

Legend:

- Alkali Metal (Pink)
- Alkaline Earth (Purple)
- Transition Metal (Blue)
- Post-Transition Metal (Orange)
- Nonmetals (Green)
- Metals (Light Blue)
- Metalloids (Yellow)
- Noble Gas (Light Yellow)
- Lanthanide Series (Light Green)
- Actinide Series (Red)

What is Selenium?

Periodic Table of the Elements

1	2											13	14	15	16	17	18																
1s	2s, 2p											3s, 3p	3d	4s	4p	4d	4f																
1 H Hydrogen	2 He Helium											3 B Boron	4 C Carbon	5 N Nitrogen	6 O Oxygen	7 F Fluorine	8 Ne Neon																
3 Li Lithium	4 Be Beryllium	5 Sc Scandium	6 Ti Titanium	7 V Vanadium	8 Cr Chromium	9 Mn Manganese	10 Fe Iron	11 Co Cobalt	12 Ni Nickel	13 Cu Copper	14 Zn Zinc	15 Ga Gallium	16 Ge Germanium	17 As Arsenic	18 Se Selenium	19 Br Bromine	20 Kr Krypton																
19 K Potassium	20 Ca Calcium	21 Sc Scandium	22 Ti Titanium	23 V Vanadium	24 Cr Chromium	25 Mn Manganese	26 Fe Iron	27 Co Cobalt	28 Ni Nickel	29 Cu Copper	30 Zn Zinc	31 Ga Gallium	32 Ge Germanium	33 As Arsenic	34 Se Selenium	35 Br Bromine	36 Kr Krypton																
37 Rb Rubidium	38 Sr Strontium	39 Y Yttrium	40 Zr Zirconium	41 Nb Niobium	42 Mo Molybdenum	43 Tc Technetium	44 Ru Ruthenium	45 Rh Rhodium	46 Pd Palladium	47 Ag Silver	48 Cd Cadmium	49 In Indium	50 Sn Tin	51 Sb Antimony	52 Te Tellurium	53 I Iodine	54 Xe Xenon																
55 Cs Cesium	56 Ba Barium	57 La Lanthanum	58 Ce Cerium	59 Pr Praseodymium	60 Nd Neodymium	61 Pm Promethium	62 Sm Samarium	63 Eu Europium	64 Gd Gadolinium	65 Tb Terbium	66 Dy Dysprosium	67 Ho Holmium	68 Er Erbium	69 Tm Thulium	70 Yb Ytterbium	71 Lu Lutetium	72 Hf Hafnium	73 Ta Tantalum	74 W Tungsten	75 Re Rhenium	76 Os Osmium	77 Ir Iridium	78 Pt Platinum	79 Au Gold	80 Hg Mercury	81 Tl Thallium	82 Pb Lead	83 Bi Bismuth	84 Po Polonium	85 At Astatine	86 Rn Radon		
87 Fr Francium	88 Ra Radium	89 Ac Actinium	90 Th Thorium	91 Pa Protactinium	92 U Uranium	93 Np Neptunium	94 Pu Plutonium	95 Am Americium	96 Cm Curium	97 Bk Berkelium	98 Cf Californium	99 Es Einsteinium	100 Fm Fermium	101 Md Mendelevium	102 No Nobelium	103 Lr Lawrencium	104 Rf Rutherfordium	105 Db Dubnium	106 Sg Seaborgium	107 Bh Bohrium	108 Hs Hassium	109 Mt Meitnerium	110 Ds Darmstadtium	111 Rg Roentgenium	112 Cn Copernicium	113 Nh Nihonium	114 Fl Flerovium	115 Uut Ununpentium	116 Uuq Ununquadium	117 Uup Ununseptium	118 Uuh Ununoctium	119 Uus Ununseptium	120 Uuo Unbinilium

Legend:

- Alkali Metals (pink)
- Alkaline Earths (purple)
- Transition Metals (blue)
- Post-Transition Metals (orange)
- Nonmetals (green)
- Halogens (yellow)
- Noble Gases (light blue)
- Lanthanides (light green)
- Actinides (red)

What is Selenium?

Periodic Table of the Elements

1	2											10	11	12	13	14	15	16	17	18
H	He											B	C	N	O	F	Ne			
Li	Be											Al	Si	P	S	Cl	Ar			
Na	Mg	3	4	5	6	7	8	9	10	11	12	Ga	Ge	As	Se	Br	Kr			
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	In	Sn	Sb	Te	I	Xe			
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	Tl	Pb	Bi	Po	At	Rn			
Cs	Ba		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Po	At	Rn						
Fr	Ra		Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	Uuq	Uup	Uuh	Uus	Uuo			
Lanthanide Series		57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72			
Actinide Series		89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	

Selenium is a non-metal with properties between Sulfur (S-above) and Tellurium (Te-below).

Why Selenium?



Well, once upon a time, there was a testing application called Mercury...

Periodic Table of the Elements

The periodic table is color-coded by groups. The legend below the table identifies the colors for each group:

- Alkali Metal (Pink)
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3	Li	4	Be											13	B	14	C	15	N	16	O	17	F	18	Ar																																						
5	Na	6	Mg	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																																												
19	K	20	Ca	21	Sc	22	Ti	23	V	24	Cr	25	Mn	26	Fe	27	Co	28	Ni	29	Cu	30	Zn	31	Ga	32	Ge	33	As	34	Se	35	Br	36	Kr																												
37	Rb	38	Sr	39	Y	40	Zr	41	Nb	42	Mo	43	Tc	44	Ru	45	Rh	46	Pd	47	Ag	48	Cd	49	In	50	Sn	51	Sb	52	Te	53	I	54	Xe																												
55	Cs	56	Ba	57	La	58	Ce	59	Pr	60	Nd	61	Pm	62	Sm	63	Eu	64	Gd	65	Tb	66	Dy	67	Ho	68	Er	69	Tm	70	Yb	71	Lu	72	Hf	73	Ta	74	W	75	Re	76	Os	77	Ir	78	Pt	79	Au	80	Hg	81	Tl	82	Pb	83	Bi	84	Po	85	At	86	Rn
87	Fr	88	Ra	89	Ac	90	Th	91	Pa	92	U	93	Np	94	Pu	95	Am	96	Cm	97	Bk	98	Cf	99	Es	100	Fm	101	Md	102	No	103	Lr	104	Rf	105	Db	106	Sg	107	Bh	108	Hs	109	Mt	110	Ds	111	Rg	112	Cn	113	Uut	114	Uuq	115	Uup	116	Uuh	117	Uus	118	Uuo

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1	H	2											10	Ne																			
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5	Na	6	Mg	7	8	9	10	11	12	13	14	15	16	17	18																		
19	K	20	Ca	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36														
37	Rb	38	Sr	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54														
55	Cs	56	Ba	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80						
87	Fr	88	Ra	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
Lanthanide Series				57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80						
Actinide Series				89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118

Well, once upon a time, there was a testing application called Mercury...



MERCURY INTERACTIVE

But Mercury was complex to use
and very expensive...

But Mercury was complex to use and very expensive...

How selenium got its name:

Selenium removes
Mercury from the body



And then Mercury was bought by HP, and rebranded Quality Center.



And then Mercury was bought by HP, and rebranded Quality Center.



Want to guess how expensive
it is now?

Objectives

- Navigate around in Selenium
- Create some test cases manually
- Create some test cases using the Record option
- Group test cases together in a Test Suite
- Look at Selenese
- Add in JavaScript
- Føniks Computer site
- The Google

There are two versions of Selenium:

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- Selenium IDE

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There are two versions of Selenium:

- Selenium IDE
- Selenium WebDriver



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Selenium IDE

- Interactive Development Environment for your tests.

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- Record tests and then play them back.

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- Save tests as HTML files. (And other formats.)

Selenium IDE

- Interactive Development Environment for your tests.
- Record tests and then play them back.
- Easy to select fields from pages.
- Test step by step.
- Debug mode with breakpoints.
- Save tests as HTML files. (And other formats.)
- Accessed as a plug-in for Firefox.

Selenium IDE

- Firefox plug-in is available here:

http://docs.seleniumhq.org/download/#side_plugins

- There are several versions; start here:

version 2.5.0 released on 01/Jan/2014

The Selenium IDE plugin is here:

Downloads - Mozilla Firefox

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Downloads

Below is where you can find the latest releases of all the Selenium components. You can also find a list of [previous releases](#), [source code](#), and additional information for [Maven users](#) (Maven is a popular Java build tool).

Selenium IDE

Selenium IDE is a Firefox plugin which records and plays back user interactions with the browser. Use this to either create simple scripts or assist in exploratory testing. It can also export Remote Control or WebDriver scripts, though they tend to be somewhat brittle and should be overhauled into some sort of Page Object-y structure for any kind of resiliency.

Download latest released version [2.5.0](#) released on 01/Jan/2014 or view the [Release Notes](#) and then [install some plugins](#).

Selenium Server (formerly the Selenium RC Server)

The Selenium Server is needed in order to run either Selenium RC style scripts or Remote Selenium Webdriver ones. The 2.x server is a drop-in replacement for the old Selenium RC server and is designed to be backwards compatible with your existing infrastructure.

Download version [2.42.2](#)

To use the Selenium Server in a Grid configuration [see the wiki page](#).

The Internet Explorer Driver Server

This is required if you want to make use of the latest and greatest features of the WebDriver InternetExplorerDriver. Please make sure that this is available on your \$PATH (or %PATH% on Windows) in order for the IE Driver to work as expected.

Download version 2.42.0 for (recommended) [32 bit Windows IE](#) or [64 bit Windows IE](#)

[CHANGELOG](#)

21:30
22.07.2014

The Selenium IDE plugin is here:

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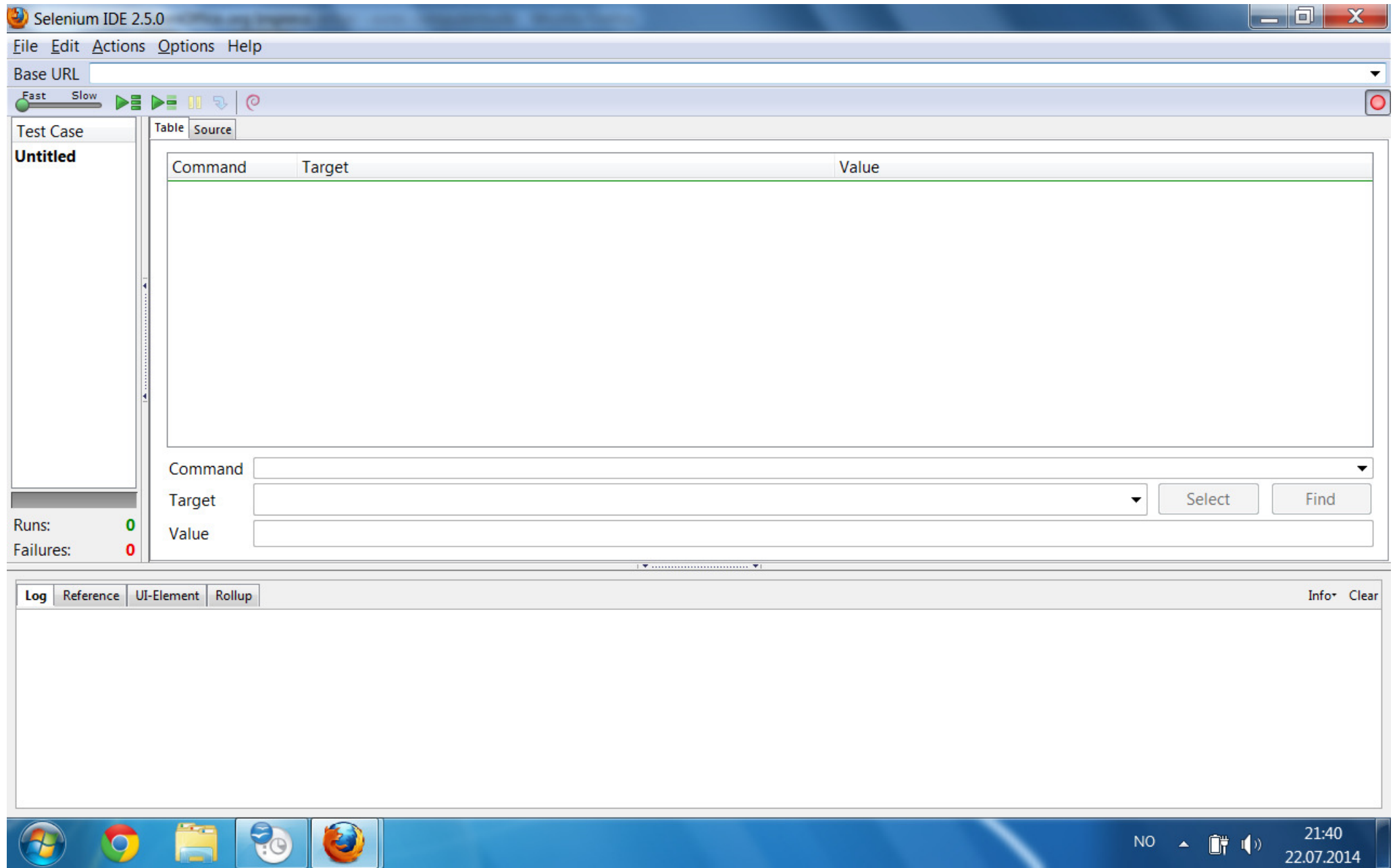
This is required if you want to make use of the latest and greatest features of the WebDriver InternetExplorerDriver. Please make sure that this is available on your \$PATH (or %PATH% on Windows) in order for the IE Driver to work as expected.

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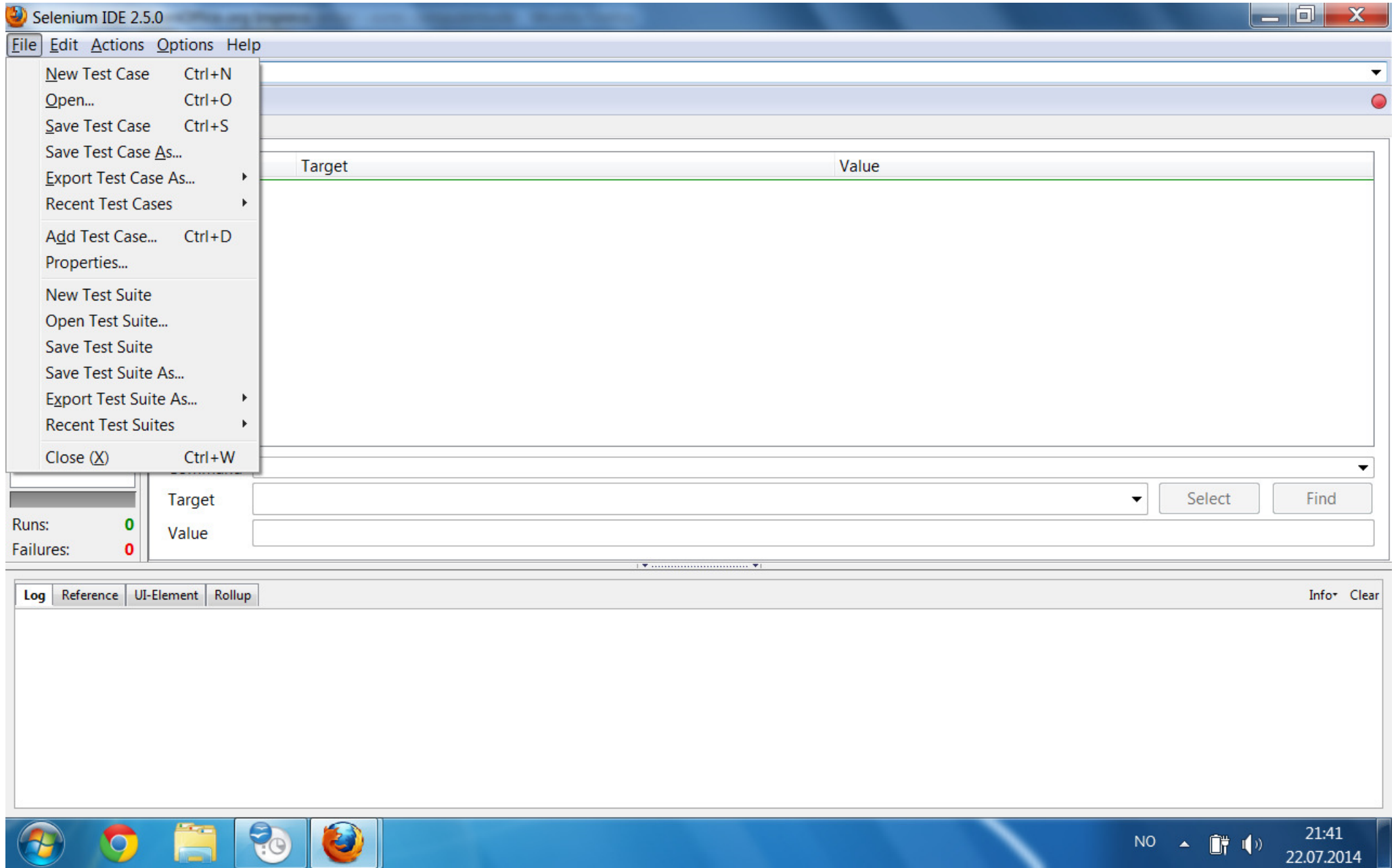
[CHANGELOG](#)

21:30
22.07.2014

Click the icon:



File / New Test Case (Or Ctrl N):



Enter a Base URL and File Save:

The screenshot displays the Selenium IDE 2.5.0 interface. The title bar reads "FC001.html - Selenium IDE 2.5.0". The menu bar includes "File", "Edit", "Actions", "Options", and "Help". The "Base URL" field is set to "www.fcomputer.dk". Below the menu bar is a toolbar with a speed slider (Fast to Slow) and several action icons. On the left, the "Test Case" pane shows an "Untitled" test case named "FC001". The main workspace is a table with columns "Command", "Target", and "Value". Below the table are input fields for "Command", "Target", and "Value", along with "Select" and "Find" buttons. At the bottom left, the "Runs" counter shows 0 and the "Failures" counter shows 0. The bottom panel contains tabs for "Log", "Reference", "UI-Element", and "Rollup", with "Info" and "Clear" buttons on the right. The Windows taskbar at the bottom shows the Start button, icons for Chrome, File Explorer, and Firefox, and the system tray with the date and time "21:43 22.07.2014".

FC001.html - Selenium IDE 2.5.0

File Edit Actions Options Help

Base URL

Fast Slow

Test Case

Untitled

FC001

Command	Target	Value
---------	--------	-------

Command

Target

Value

Command

Target

Value

Runs: 0

Failures: 0

Log Reference UI-Element Rollup

Info Clear

21:43 22.07.2014

Right Click / Insert a new cmd:

The screenshot displays the Selenium IDE 2.5.0 interface. The main window title is "FC001.html - Selenium IDE 2.5.0". The menu bar includes "File", "Edit", "Actions", "Options", and "Help". The "Base URL" is set to "www.fcomputer.dk". The interface features a "Test Case" pane on the left showing "FC001". The main area is a table with columns "Command", "Target", and "Value". A right-click context menu is open over the table, listing options: "Cut", "Copy", "Paste", "Delete", "Insert New Command", "Insert New Comment", "Clear All", "Toggle Breakpoint", "Set / Clear Start Point", and "Execute this command". Below the table are input fields for "Command", "Target", and "Value", along with "Select" and "Find" buttons. The bottom status bar shows "Runs: 1" and "Failures: 0". The Windows taskbar at the bottom includes icons for Internet Explorer, Google Chrome, File Explorer, and a clock showing 15:55 on 23.07.2014.

FC001.html - Selenium IDE 2.5.0

File Edit Actions Options Help

Base URL www.fcomputer.dk

Fast Slow

Test Case

FC001

Command	Target	Value

Command

Target

Value

Runs: 1

Failures: 0

Log Reference UI-Element Rollup

Info Clear

15:55
23.07.2014

selectWindow / Null:

The screenshot shows the Selenium IDE 2.5.0 interface. The title bar reads "FC001.html - Selenium IDE 2.5.0 *". The menu bar includes "File", "Edit", "Actions", "Options", and "Help". The "Base URL" is set to "www.fcomputer.dk". The "Test Case" pane on the left shows "FC001 *". The main area displays a table with the following content:

Command	Target	Value
selectWindow		null

Below the table, the "Command" field is set to "selectWindow", the "Target" field is empty, and the "Value" field contains "null". There are "Select" and "Find" buttons to the right of the input fields. On the left side of the interface, the "Runs" counter is 1 and the "Failures" counter is 0.

The screenshot shows the "Reference" tab for the "selectWindow" command. The title bar reads "Log Reference UI-Element Rollup". The content of the Reference tab is as follows:

selectWindow(windowID)

Arguments:

- windowID - the JavaScript window ID of the window to select

Selects a popup window using a window locator; once a popup window has been selected, all commands go to that window. To select the main window again, use null as the target.

Window locators provide different ways of specifying the window object: by title, by internal JavaScript "name," or by JavaScript variable.

- **title=My Special Window:** Finds the window using the text that appears in the title bar. Be careful; two windows can share the same title. If that happens, this locator will just pick one.
- **name=myWindow:** Finds the window using its internal JavaScript "name" property. This is the second parameter "windowName" passed to the JavaScript method window.open(url, windowName, windowFeatures, replaceFlag) (which Selenium intercepts).
- **var=variableName:** Some pop-up windows are unnamed (anonymous), but are associated with a JavaScript variable name in the current application window, e.g. "window.foo = window.open(url);". In those cases, you can open the window

A * indicates the test needs to be saved:

The screenshot shows the Selenium IDE 2.5.0 interface. The title bar reads "FC001.html - Selenium IDE 2.5.0 *". The menu bar includes "File", "Edit", "Actions", "Options", and "Help". The "Base URL" is set to "www.fcomputer.dk". The "Test Case" list on the left shows "FC001 *". The main table has two columns: "Command" and "Target", and a "Value" column. The table contains one row: "selectWindow" in the Command column and "null" in the Value column. Below the table, the "Command" field is set to "selectWindow", the "Target" field is empty, and the "Value" field contains "null". There are "Select" and "Find" buttons to the right of the "Target" field. On the left side, the "Runs" counter is 1 and the "Failures" counter is 0.

Command	Target	Value
selectWindow		null

The screenshot shows the "Reference" section of the Selenium IDE interface. The "Log" tab is selected, and the "Reference" sub-tab is active. The content displays the documentation for the `selectWindow(windowID)` command. It includes the following text:

selectWindow(windowID)
Arguments:

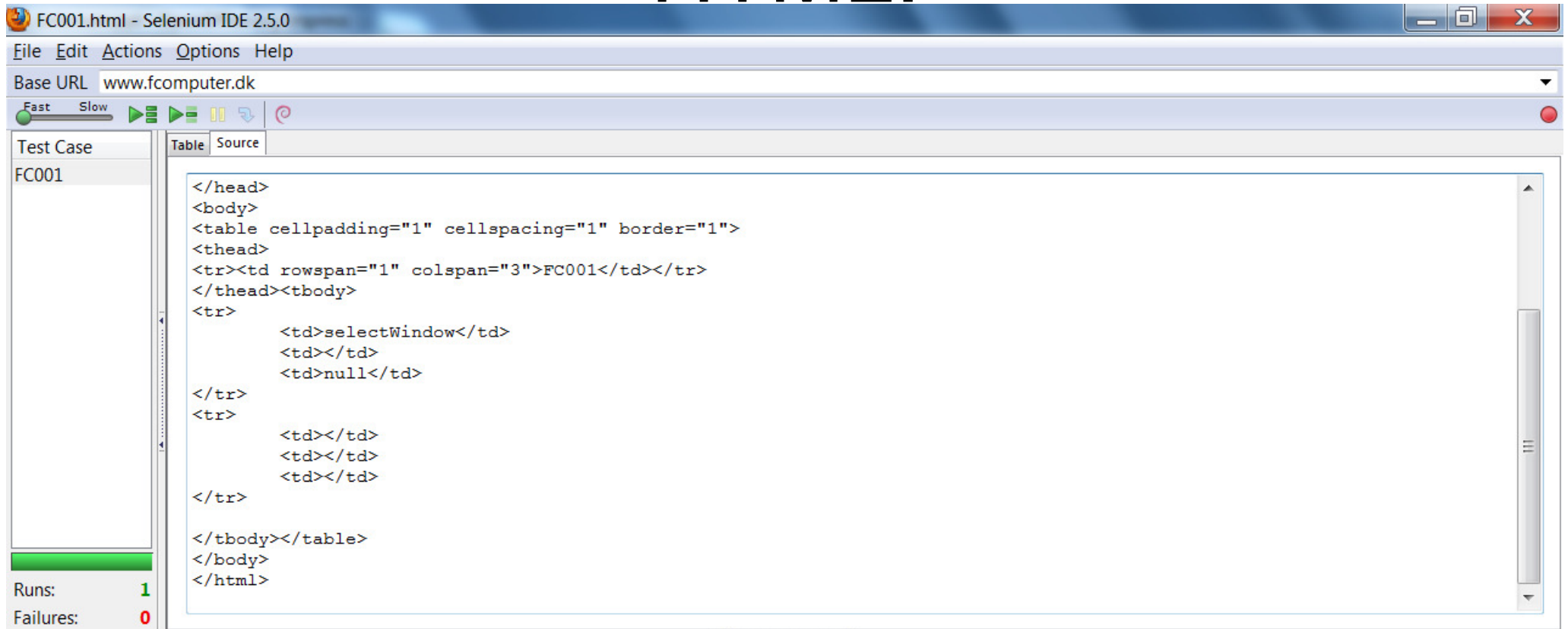
- `windowID` - the JavaScript window ID of the window to select

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Click on the Source tab to see the HTML:



FC001.html - Selenium IDE 2.5.0

File Edit Actions Options Help

Base URL www.fcomputer.dk

Fast Slow

Test Case

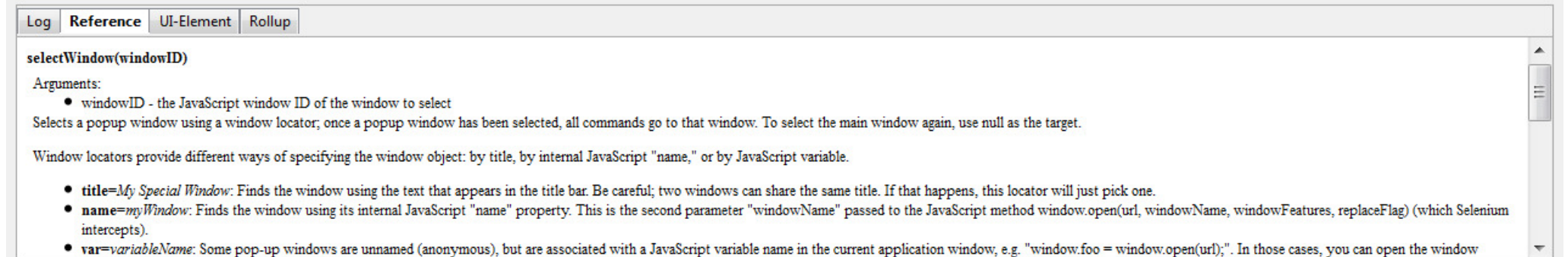
FC001

Table Source

```
</head>
<body>
<table cellpadding="1" cellspacing="1" border="1">
<thead>
<tr><td rowspan="1" colspan="3">FC001</td></tr>
</thead><tbody>
<tr>
<td>selectWindow</td>
<td></td>
<td>null</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody></table>
</body>
</html>
```

Runs: 1

Failures: 0



Log Reference UI-Element Rollup

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Click on Table tab and press the Run button:

The screenshot displays the Selenium IDE 2.5.0 interface. The main window title is 'FC001.html - Selenium IDE 2.5.0'. The menu bar includes 'File', 'Edit', 'Actions', 'Options', and 'Help'. The 'Base URL' is set to 'www.fcomputer.dk'. The interface features a 'Fast' to 'Slow' speed slider and several control buttons. On the left, a 'Test Case' pane shows 'FC001' selected. The main area is divided into 'Table' and 'Source' tabs. The 'Table' tab contains a table with the following data:

Command	Target	Value
selectWindow		null

Below the table, the 'Command' field is set to 'selectWindow', the 'Target' field is empty, and the 'Value' field is set to 'null'. There are 'Select' and 'Find' buttons to the right of the 'Target' field. At the bottom left, the 'Runs' counter shows '1' and the 'Failures' counter shows '0'. The bottom pane, titled 'Log', shows the message '[info] Executing: |selectWindow | | null |'. The Windows taskbar at the bottom shows the time as 16:37 on 23.07.2014.

And the test results will increment:

The screenshot displays the Selenium IDE 2.5.0 interface. The main window shows a test case named 'FC001' with a Base URL of 'www.fcomputer.dk'. The test case is currently running, and the results are shown in a table below the command list.

Command	Target	Value
selectWindow		null

Below the table, the command 'selectWindow' is selected, and the 'Value' field is set to 'null'. The 'Runs' counter is 1, and 'Failures' is 0. The log at the bottom shows the execution of the command: '[info] Executing: |selectWindow | | null |'.

Windows taskbar at the bottom shows the time as 16:37 on 23.07.2014.

Plus the Log will be populated:

The screenshot displays the Selenium IDE 2.5.0 interface. The top window title is "FC001.html - Selenium IDE 2.5.0". The menu bar includes "File", "Edit", "Actions", "Options", and "Help". The "Base URL" is set to "www.fcomputer.dk". The interface features a "Test Case" sidebar on the left with "FC001" selected. The main area shows a table with columns "Command", "Target", and "Value". Below the table, the "Command" field is set to "selectWindow", and the "Value" field is set to "null". The "Runs" counter shows "1" and "Failures" shows "0". The bottom panel, titled "Log", contains the entry "[info] Executing: |selectWindow | | null |". The Windows taskbar at the bottom shows the time as 16:37 on 23.07.2014.

Command	Target	Value
selectWindow		null

Command: selectWindow
Target:
Value: null

Runs: 1
Failures: 0

Log: [info] Executing: |selectWindow | | null |

Easy, hæ?

Now, let's make a suite of tests.

File / New Test Suite:

The screenshot shows the Selenium IDE 2.5.0 interface. The 'File' menu is open, and 'New Test Suite' is highlighted. The main workspace contains a table with the following data:

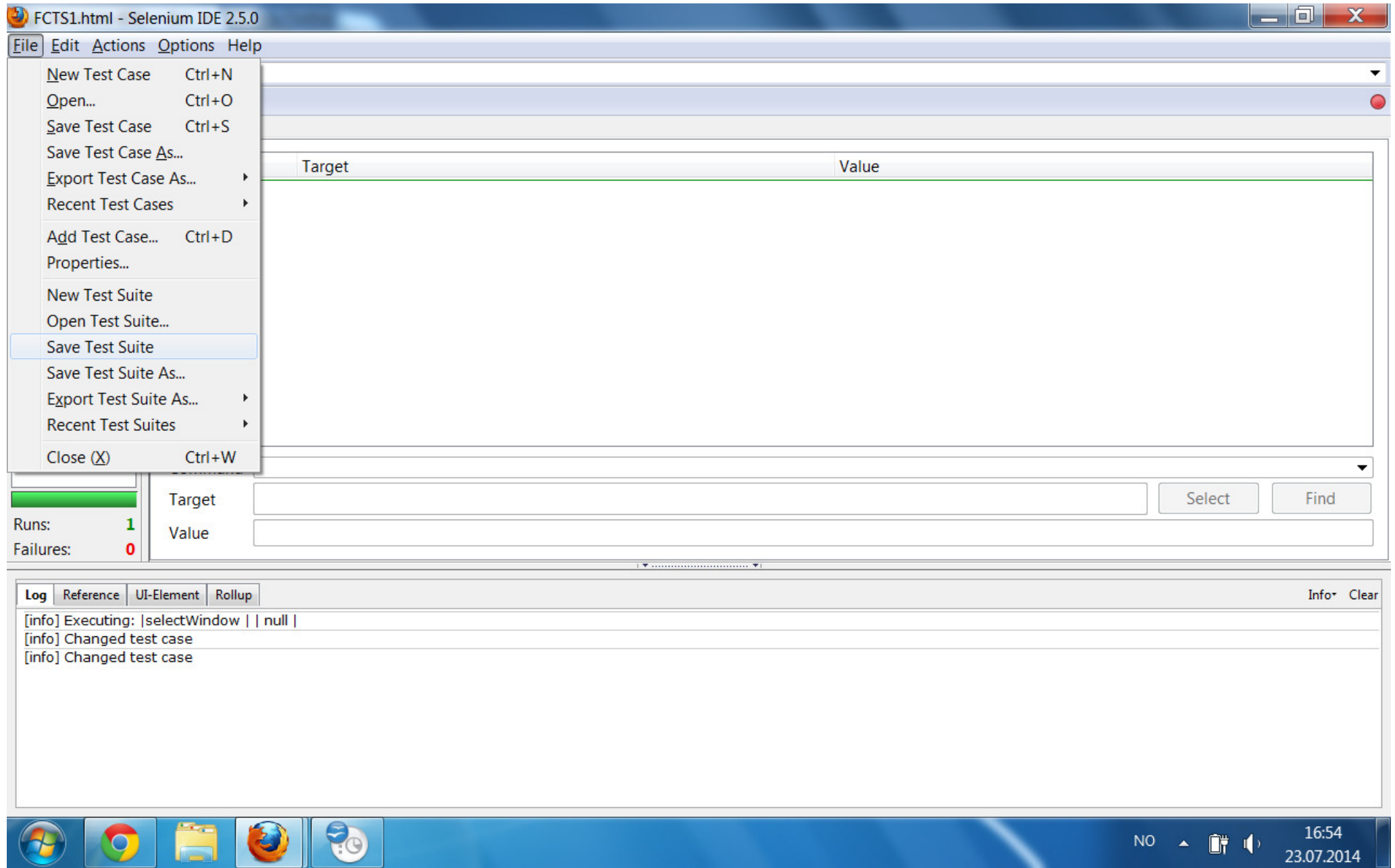
Target	Value
w	null

Below the table, the 'selectWindow' command is visible. The 'Target' field is empty, and the 'Value' field contains 'null'. The 'Runs' counter is 1, and the 'Failures' counter is 0. The log shows the execution of the 'selectWindow' command with the value 'null'.

Runs: 1
Failures: 0

Log: [info] Executing: |selectWindow | | null |

File / Save Test Suite:



And, WaLa:

The screenshot displays the Selenium IDE 2.5.0 interface. The title bar reads "FCTS1.html - Selenium IDE 2.5.0". The menu bar includes "File", "Edit", "Actions", "Options", and "Help". The "Base URL" is set to "www.fcomputer.dk". The interface features a "Test Case" sidebar on the left with "FCTS1" selected. Below the sidebar, it shows "Runs: 1" and "Failures: 0". The main workspace is divided into a "Table" and "Source" view. The "Table" view contains a table with three columns: "Command", "Target", and "Value". Below the table are input fields for "Command", "Target", and "Value", along with "Select" and "Find" buttons. At the bottom, there is a "Log" panel with tabs for "Log", "Reference", "UI-Element", and "Rollup", and "Info" and "Clear" buttons. The Windows taskbar at the bottom shows the Start button, icons for Chrome, File Explorer, Firefox, and a clock, with the system tray displaying "NO", network, volume, and date/time "16:56 23.07.2014".

File Edit Actions Options Help

Base URL www.fcomputer.dk

Fast Slow

Test Case

FCTS1

Command	Target	Value
---------	--------	-------

Command

Target

Value

Runs: 1

Failures: 0

Log Reference UI-Element Rollup

Info Clear

NO 16:56 23.07.2014

Now, I want to test each tab:

The screenshot shows a Mozilla Firefox browser window displaying the Føniks Computer website. The browser's address bar shows the URL <https://www.fcomputer.dk>. The website header features the Føniks logo and navigation links for 'JOB | NYHEDSBREV | KUNDECENTER | KONTAKT OS | MIN KONTO'. Below the header is a category menu with tabs for 'PC/BÆRBAR', 'HARDWARE', 'GAMING', 'SOFTWARE', 'NETVÆRK', 'SCAN/PRINT', 'TV/HI-FI', 'FOTO/VIDEO', 'TELEFONI/GPS', 'KONTOR', and 'DEMOSHOP'. A search bar with the placeholder 'Søg efter...' is located on the right side of the category menu.

The main content area is dominated by a large banner with a yellow flower and the text 'Se sommerens åbningstider her!'. To the right of the banner are several promotional boxes: 'Har du styr på dine data?' featuring Buffalo and ASUS products, 'Produktguides' for RAM, cables, and toners, 'Din kurv' with logos for DKK, VISA, and MasterCard, and 'Lagerforklaring' explaining store and remote inventory policies.

At the bottom of the page, there is a 'Mest populære' section with sub-sections for 'Bærbær' (laptops and tablets) and 'Office software ...' (Office 365). A 'Chat med en medarbejder' button is visible in the bottom right corner. The Windows taskbar at the bottom shows the system clock at 17:00 on 23.07.2014.

Turn on the Record function:

The screenshot displays the Selenium IDE 2.5.0 interface. The title bar reads "FCTS1.html - Selenium IDE 2.5.0". The menu bar includes "File", "Edit", "Actions", "Options", and "Help". The Base URL is set to "https://www.fcomputer.dk/". The interface features a "Fast" vs "Slow" speed slider and a "Record" button (a red circle with a white dot) in the top right corner, which is currently active. On the left, the "Test Case" pane shows "FCTS1". The main workspace is a table with columns "Command", "Target", and "Value". Below the table are input fields for "Command", "Target", and "Value", along with "Select" and "Find" buttons. The bottom status bar shows "Runs: 1" and "Failures: 0". The bottom-most part of the image shows the Windows taskbar with icons for Internet Explorer, Google Chrome, File Explorer, and a clock showing 17:34 on 23.07.2014.

FCTS1.html - Selenium IDE 2.5.0

File Edit Actions Options Help

Base URL https://www.fcomputer.dk/

Fast Slow

Test Case

FCTS1

Command	Target	Value
---------	--------	-------

Command

Target

Value

Select Find

Runs: 1

Failures: 0

Log Reference UI-Element Rollup

clickAndWait(locator)
Generated from **click(locator)**

Arguments:

- locator - an element locator

Clicks on a link, button, checkbox or radio button. If the click action causes a new page to load (like a link usually does), call `waitForPageToLoad`.

NO 17:34 23.07.2014

Click every tab:

Føniks Computer - Køb PC, computer, bærbar i vores computerbutik - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Føniks Computer - Køb PC, com... +

f fcomputer.dk https://www.fcomputer.dk

Google

FØNIKS®

JOB | NYHEDSBREV | KUNDECENTER | KONTAKT OS | MIN KONTO

PC/BÆRBAR HARDWARE GAMING SOFTWARE NETVÆRK SCAN/PRINT TV/HI-FI FOTO/VIDEO TELEFONI/GPS KONTOR DEMOSHOP

Hjemmeside Søg efter...

Se sommerens åbningstider her!

Har du styr på dine data?

ITS PAYBACK TIME

ASUS mobil løsninger

FASTEST

Se sommerens åbningstider her!

Produktguides

RAM/hukommelsesguide
Kabelguide
Reserveudvalgsguide
Blæk- og tonerguide

Din kurv

DKK VISA VISA Checkout MasterCard Pris inkl. moms

København Aarhus

Telefon: 70 60 60 64
E-mail: kontakt@fcomputer.dk

Lagerforklaring

- Butikslager (Varen ligger på eget lager)
- Fjernlager (Varen skal bestilles 1-3 hverdage før evt. afhentning)
- Ekstra leverings t...

Mest populære

Bærbar Bærbar Office software ... Bærbar Bærbar

Connecting to fbcndn-profile-a.akamaihd.net... statistik og annoncer. Læs mere.

Chat med en medarbejder

17:00
23.07.2014

Turn off the Record function:

The screenshot displays the Selenium IDE 2.5.0 interface. The main window shows a test case named "FCTS1 *" with a table of commands. The table has three columns: Command, Target, and Value. The commands listed are "open" and several "clickAndWait" actions targeting various links on the website "https://www.fcomputer.dk/".

Command	Target	Value
open	/	
clickAndWait	link=PC/BÆRBAR	
clickAndWait	link=HARDWARE	
clickAndWait	link=GAMING	
clickAndWait	link=SOFTWARE	
clickAndWait	link=NETVÆRK	
clickAndWait	link=SCAN/PRINT	
clickAndWait	link=TV/HI-FI	
clickAndWait	link=FOTO/VIDEO	
clickAndWait	link=TELEFONI/GPS	
clickAndWait	link=KONTOR	
clickAndWait	link=DEMOSHOP	

Below the table, there are input fields for Command, Target, and Value, along with "Select" and "Find" buttons. The "Runs" counter shows 1 and "Failures" shows 0.

The bottom panel shows the "Reference" tab for the "clickAndWait(locator)" command. It states: "Generated from click(locator)". Arguments: locator - an element locator. Clicks on a link, button, checkbox or radio button. If the click action causes a new page to load (like a link usually does), call waitForPageToLoad.

For each click, verify the title:

TabTest01.html - Selenium IDE 2.5.0

File Edit Actions Options Help

Base URL <https://www.fcomputer.dk/>

Fast Slow

Test Case

TabTest01

Command	Target	Value
open	/	
clickAndWait	link=PC/BÆRBAR	
verifyTitle	Bærbar PC - Køb en bærbar PC, MacBook, notebook m.m. online	

Command

Target

Value

Runs: 1

Failures: 0

Log Reference UI-Element Rollup Info Clear

NO 19:36 23.07.2014

...and save the test as a new name:

The screenshot shows the Selenium IDE 2.5.0 interface. The title bar reads 'TabTest01.html - Selenium IDE 2.5.0'. The menu bar includes 'File', 'Edit', 'Actions', 'Options', and 'Help'. The 'Base URL' is set to 'https://www.fcomputer.dk/'. The interface features a 'Test Case' sidebar on the left with 'TabTest01' selected. The main area displays a table of test steps:

Command	Target	Value
open	/	
clickAndWait	link=PC/BÆRBAR	
verifyTitle	Bærbar PC - Køb en bærbar PC, MacBook, notebook m.m. online	

Below the table are input fields for 'Command', 'Target', and 'Value', along with 'Select' and 'Find' buttons. The bottom status bar shows 'Runs: 1' and 'Failures: 0'. The Windows taskbar at the bottom indicates the time is 19:36 on 23.07.2014.

Repeat this for all 11 tabs:

The screenshot displays the Selenium IDE 2.5.0 interface. The title bar reads "TabTest02.html - Selenium IDE 2.5.0". The menu bar includes "File", "Edit", "Actions", "Options", and "Help". The "Base URL" is set to "https://www.fcomputer.dk/". The interface features a "Fast" to "Slow" speed slider and a toolbar with icons for running, pausing, and refreshing. On the left, a "Test Case" sidebar lists "TabTest01" and "TabTest02", with "TabTest02" selected. The main area shows a table with the following content:

Command	Target	Value
open	/	
clickAndWait	link=PC/HARDWARE	
verifyTitle	Hardware - Vi forhandler hardware til billige priser	

Below the table, there are input fields for "Command", "Target", and "Value", along with "Select" and "Find" buttons. At the bottom left, the status shows "Runs: 1" and "Failures: 0". The bottom panel contains tabs for "Log", "Reference", "UI-Element", and "Rollup", with "Info" and "Clear" buttons on the right. The Windows taskbar at the bottom shows the Start button, icons for Chrome, File Explorer, Firefox, and Selenium IDE, along with system tray icons and the date/time "19:57 23.07.2014".

Edit the Test Suite file:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head profile="http://selenium-ide.openqa.org/profiles/test-case">
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<link rel="selenium.base" href="https://www.fcomputer.dk/" />
<title>FCTS1</title>
</head>
<body>
<table cellpadding="1" cellspacing="1" border="1">
<thead>
<tr><td rowspan="1" colspan="3">FCTS1</td></tr>
</thead><tbody>

<tr><td><a href="TabTest01.html">TabTest01</a></td></tr>
<tr><td><a href="TabTest02.html">TabTest02</a></td></tr>
<tr><td><a href="TabTest03.html">TabTest03</a></td></tr>
<tr><td><a href="TabTest04.html">TabTest04</a></td></tr>
<tr><td><a href="TabTest05.html">TabTest05</a></td></tr>
<tr><td><a href="TabTest06.html">TabTest06</a></td></tr>
<tr><td><a href="TabTest07.html">TabTest07</a></td></tr>
<tr><td><a href="TabTest08.html">TabTest08</a></td></tr>
<tr><td><a href="TabTest09.html">TabTest09</a></td></tr>
<tr><td><a href="TabTest10.html">TabTest10</a></td></tr>
<tr><td><a href="TabTest11.html">TabTest11</a></td></tr>

</tbody></table>
</body>
</html>
```

Insert search word into Google:

The screenshot displays the Selenium IDE 2.5.0 interface. The title bar reads "Google1.html - Selenium IDE 2.5.0". The menu bar includes "File", "Edit", "Actions", "Options", and "Help". The "Base URL" is set to "https://www.google.com/". The "Test Case" pane on the left shows "Google1" and "Google2". The main table contains the following data:

Command	Target	Value
open	/	
type	id=gbqfq	Denmark
sendKeys	id=gbqfq	\$(KEY_ENTER)

Below the table, there are input fields for "Command", "Target", and "Value", along with "Select" and "Find" buttons. The "Runs:" counter shows "1" and "Failures:" shows "0". The bottom status bar includes "Log", "Reference", "UI-Element", "Rollup", "Info", and "Clear".



Google returns:

The screenshot shows a Mozilla Firefox browser window with the title 'Denmark - Google-søgning'. The address bar contains 'google.dk' and the search URL 'https://www.google.dk/?gws_rd=cr&ei=VAHRU-mtAaiCzAO8oYGgCw#q=Denmark'. The search bar contains the word 'Denmark'. Below the search bar, there are navigation tabs for 'Internet', 'Maps', 'Billeder', 'Videoer', 'Bøger', 'Mere', and 'Søgeværktøjer'. The search results show 'Ca. 190.000.000 resultater (0,38 sekunder)'. A cookie notice is displayed: 'Cookies hjælper os med at levere vores tjenester. Ved at bruge vores tjenester accepterer du vores brug af cookies. Få flere oplysninger OK'. The first search result is 'Denmark.dk - The official website of Denmark' with the URL 'denmark.dk/'. The second result is 'Denmark - Wikipedia, the free encyclopedia' with the URL 'en.wikipedia.org/wiki/Denmark'. To the right of the search results, there is a knowledge panel for 'Danmark' featuring the Danish flag, a map of Denmark, and a list of facts: 'Hovedstad: København', 'Landekode: +45', 'Valuta: Danske kroner', 'Befolkningstal: 5,59 millioner (2012) Verdensbanken', and 'Dronning: Margrethe 2.'. The Windows taskbar at the bottom shows the time as 14:54 on 24.07.2014.

Insert search word into Google:

The screenshot shows the Selenium IDE 2.5.0 interface. The title bar reads "Google2.html - Selenium IDE 2.5.0". The menu bar includes "File", "Edit", "Actions", "Options", and "Help". The "Base URL" is set to "https://www.google.com/". The "Test Case" panel on the left shows "Google1" and "Google2", with "Google2" selected. The main table contains the following test steps:

Command	Target	Value
store	javascript["Boeing " + Math.floor(Math.random() * 1000);]	query
open	/	
type	id=gbqfq	\${query}
sendKeys	id=gbqfq	\${KEY_ENTER}
verifyValue	id=gbqfq	\${query}

Below the table, there are input fields for "Command", "Target", and "Value", along with "Select" and "Find" buttons. The "Log" panel at the bottom shows a message: "[info] Changed test case".

Google returns:

Boeing 136 - Google-søgning - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Boeing 136 - Google-søgning

google.dk https://www.google.dk/?gws_rd=cr&ei=7gLRU8enEiaCzAPc_oCQCw#q=Boeing+136


Google Boeing 136 Log ind

Internet Billeder Maps Videoer Mere Søgeværktøjer

Ca. 3.850.000 resultater (0,24 sekunder)

Cookies hjælper os med at levere vores tjenester. Ved at bruge vores tjenester accepterer du vores brug af cookies.
Få flere oplysninger OK

Billeder af Boeing 136 Rapportér billeder



Flere billeder af Boeing 136

Photos: [Boeing 747-136 Aircraft Pictures | Airliners.net](#)
[www.airliners.net/photo/British.../Boeing-747-136/.../...](#) Oversæt denne side
Picture of the Boeing 747-136 aircraft. ... Great shot, lovely picture.is it not a 747-236 and not a 136...the 1 series only had 3 windows on top... A visitor from ...

[Boeing #136 FlightAware](#)
[flightaware.com/live/flight/BOE136](#) Oversæt denne side
Boeing #136 Flight Tracker (BOE136) Flight Tracker (en route flights, arrivals, departures, history) with live maps and aircraft photos

Windows taskbar: NO 14:58 24.07.2014

Tips for Selenium:

- Be organized! Establish a naming convention for your test cases.
- Be patient! Sometimes Selenium is a bit slow to respond.
- Use it! Don't mix Selenium tests with manual tests. You will benefit in the long run.

For further reference:

- ISTQB
- Agile Testing

http://www.amazon.com/Agile-Testing-Practical-Guide-Testers/dp/0321534468/ref=sr_1_7?s=books&ie=UTF8&qid=1406207011&sr=1-7&keywords=software+testing