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**2.**[**What are the main components of Selenium testing tools?**](http://blosumsdotnet.blogspot.in/2012/05/what-are-main-components-of-selenium.html) **3.**[**What is Selenium IDE?**](http://blosumsdotnet.blogspot.in/2012/05/what-is-selenium-ide-selenium.html) **4.**[**What is the use of context menu in Selenium IDE?**](http://blosumsdotnet.blogspot.in/2012/05/what-is-use-of-context-menu-in-selenium.html) **5.**[**Can tests recorded using Selenium IDE be run in other browsers?**](http://blosumsdotnet.blogspot.in/2012/05/can-tests-recorded-using-selenium-ide.html) **6.**[**What are the advantage and features of Selenium IDE?**](http://blosumsdotnet.blogspot.in/2012/05/what-are-advantage-and-features-of.html) **7.**[**What are the disadvantage of Selenium IDE tool?**](http://blosumsdotnet.blogspot.in/2012/05/what-are-disadvantage-of-selenium-ide.html) **8.**[**What is Selenium RC (Remote Control)?**](http://blosumsdotnet.blogspot.in/2012/05/what-is-selenium-rc-remote-control.html) **9.**[**What is Selenium Grid?**](http://blosumsdotnet.blogspot.in/2012/05/what-is-selenium-grid-selenium.html) **10.**[**How Selenium Grid works?**](http://blosumsdotnet.blogspot.in/2012/05/how-selenium-grid-works-selenium.html) **11.**[**What you say about the flexibility of Selenium test suite?**](http://blosumsdotnet.blogspot.in/2012/05/what-you-say-about-flexibility-of.html)  
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[**How to capture bitmaps in Selenium? | Selenium**](http://blosumsdotnet.blogspot.in/2012/05/how-to-capture-bitmaps-in-selenium.html)

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Bitmaps are captured using the Selenium set of commands. There are two modes of capturing the bitmaps  
1) Capture the bitmap for the entire page - it captures the browser main page area of AUT  
2) Capture the bitmap for the screen shots - it captures the entire screen shot like the print screen that you give from your keyboard  
Selenium doesn't support bitmap capturing for an element on AUT.

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Accessors are mostly used for storing the value in a variable.  
The variable can be used for following reasons:  
1) To get the value from an element and comparing with some dynamic value  
2) To take a logical decision to execute the test steps  
ex: if the value of the variable true execute step1 and step2 else step3 and step4  
3) To execute some statements in a loop based on the value returned by the element.

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**[When to use Assert, Verify and WaitFor in Selenium? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/when-to-use-assert-verify-and-waitfor.html)**

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**1) assert -** If the expected value is mandatory to continue with the next set of steps we will use Assert. As Assert aborts the test, if the expected value doesn't match. It is good to use for any mandatory checks.  
**2) verify -** If the expected value is optional to continue with the next set of steps we will use Verify. As Verify continues executing with the next set of steps, if the expected value doesn't match. It is good to use for any optional checks.  
**3) waitFor -** If your test needs to wait, if the expected value is not matching we use waitFor. We normally use waitFor for AJAX kind of controls loading within a page.

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**[What are the types of Assertions there in Selenium? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-are-types-of-assertions-there-in.html)**

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**Selenium Assertions can be used in 3 modes:**  
**1) assert -**When an “assert” fails, the test will be aborted. If you are executing test suite, the next state case will start  
**2) verify -**When a “verify” fails, the test will continue execution, logging the failure.  
**3) waitFor -**“waitFor” commands wait for some condition to become true (which can be useful for testing Ajax applications). They will succeed immediately if the condition is already true. However, they will fail and halt the test if the condition does not become true within the current timeout setting.

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Assertion is nothing but a check or verification point.  
Assertion verifies the state of the application conforms to what is expected.  
Examples include “make sure the page title is X” and “verify that this checkbox is checked.

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**[What is Selenese? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-is-selenese-selenium.html)**

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Selenium set of commands which are used for running the test are called as Selenese.  
**There are three types of Selenese, those are:**  
**1. Actions -** used for performing the operations and interactions with the target elements  
**2. Assertions -** used as check points  
**3. Accessors -** used for storing the values in a variable.

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**[How to use regular expressions in Selenium? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/how-to-use-regular-expressions-in.html)**

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Regular expressions in Selenium IDE can be used with the keyword - regexp: as a prefix to the value and patterns needs to be included for the expected values.  
For example if you want to use the regular expression for a command  
Command: verifyText  
Target: //font/font/b/font[1]  
Value: Flight Confirmation # 2011-05-02451  
in the above example Flight Confirmation is continuously changing each time you run the test case. So this can be written with a regular expression as mentioned below   
Command: verifyText  
Target: //font/font/b/font[1]  
Value: regexp:Flight Confirmation # [0-9]{4}-[0-9]{2}-[0-9]{5,10}.

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**There are three types of patterns available in Selenium**:  
1. globbing  
2. regular expressions  
3. exact.

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**[Does Selenium support Google Android Operating System? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/does-selenium-support-google-android.html)**

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Yes, Selenium Web Driver or Google Web Driver or Selenium 2.0 supports Android Operating System. There are several libraries written to support Android Operating System.

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**[Does Selenium support mobile internet testing? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/does-selenium-support-mobile-internet.html)**

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Selenium supports Opera. And opera is used in most of the Smart phones. So whichever Smart phone supports opera, selenium can be used to test. So, one can use Selenium RC to run the tests on mobiles.

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**[What is the architecture of Selenium Grid? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-is-architecture-of-selenium-grid.html)**

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The below mentioned theory explains about the setup of Selenium Grid with architecture and how it works.  
Selenium Grid builds on the traditional Selenium setup, taking advantage of the following properties:  
\* The Selenium test, the application under test, and the remote control/browser pair do not have to be co-located. They communicate through HTTP, so they can all live on different machines.  
\* The Selenium tests and the web application under test are obviously specific to a particular project. Nevertheless, neither the Selenium remote control nor the browser is tied to a specific application. As a matter of fact, they provide a capacity that can easily be shared by multiple applications and multiple projects.  
Consequently, if only we could build a distributed grid of Selenium Remote Controls, we could easily share it across builds, applications, projects - even potentially across organizations. Of course we would also need to address the scalability issues as described earlier when covering the traditional Selenium setup. This is why we need a component in charge of:  
\* Allocating a Selenium Remote Control to a specific test (transparently)  
\* Limiting the number of concurrent test runs on each Remote Control  
\* Shielding the tests from the actual grid infrastructure   
Selenium Grid calls this component the Selenium Hub.  
\* The Hub exposes an external interface that is exactly the same as the one of a traditional Remote Control. This means that a test suite can transparently target a regular Remote Control or a Selenium Hub with no code change. It just needs to target a different IP address. This is important as it shields the tests from the grid infrastructure (which you can scale transparently). This also makes the developer’s life easier. The same test can be run locally on a developer machine, or run on a heavy duty distributed grid as part of a build – without ever changing a line of code.  
\* The Hub allocates Selenium Remote Controls to each test. The Hub is also in charge of routing the Selenese requests from the tests to the appropriate Remote Control as well as keeping track of testing sessions.  
\* When a new test starts, the Hub puts its first request on hold if there is no available Remote Control in the grid providing the appropriate capabilities. As soon as a suitable Remote Control becomes available, the Hub will serve the request. For the whole time, the tests do not have to be aware of what is happening within the grid; it is just waiting for an HTTP response to come back. 

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The Selenium Server which launches and kills browsers, and acts as an HTTP proxy for browser requests.   
Client libraries for various programming languages, each of which instructs the Selenium Server in how to test the AUT by passing it your test script’s Selenium commands.   
The diagram shows the client libraries communicate with the Server passing each Selenium command for execution. Then the server passes the Selenium command to the browser using Selenium-Core JavaScript commands. The browser, using its JavaScript interpreter, executes the Selenium command, which effectively, runs the check you specified in your Selenese test script.

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One should use WebDriver when requiring improved support for  
• Mult-browser testing including improved functionality for browsers not well-supported by Selenium-1.0.  
• Handling multiple frames, multiple browser windows, popups, and alerts.  
• Page navigation.  
• Drag-and-drop.  
• AJAX-based UI elements.

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WebDriver uses a different underlying framework from Selenium’s javascript Selenium-Core. It also provides an alternative API with functionality not supported in Selenium-RC. WebDriver does not depend on a javascript core embedded within the browser, therefore it is able to avoid some long-running Selenium limitations.  
WebDriver’s goal is to provide an API that establishes  
• A well-designed standard programming interface for web-app testing.  
• Improved consistency between browsers.  
• Additional functionality addressing testing problems not well-supported in Selenium 1.0.   
The Selenium developers strive to continuously improve Selenium. Integrating WebDriver is another step in that process. The developers of Selenium and of WebDriver felt they could make significant gains for the Open Source test automation community be combining forces and merging their ideas and technologies. Integrating WebDriver into Selenium is the current result of those efforts.

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**[Which are the languages supported by Selenium RC? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/which-are-languages-supported-by.html)**

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**The languages supported by Selenium RC**  
1. .Net,  
2. Java (Junt 3, Junt 4, TestNG, Groovy)  
3. Perl,  
4. Python,  
5. PHP,  
6. Ruby.

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**[Why Selenium RC is used? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/why-selenium-rc-is-used-selenium.html)**

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**Selenium-IDE does not directly support:**  
1. condition statements  
2. iteration  
3. logging and reporting of test results  
4. error handling, particularly unexpected errors  
5. database testing  
6. test case grouping  
7. re-execution of failed tests  
8. test case dependency  
9. capture screenshots on test failures   
The reason behind why Selenium-IDE does not support the above mentioned requirements is IDE supports only HTML language. Using HTML language we cannot achieve the above mentioned requirements. Because HTML does not support conditional, looping and external source connectives.  
To overcome the above mentioned problems Selenium RC is used.  
Since Selenium RC supports the languages .Net, Java, Perl, Python, PHP, and Ruby. In these languages we can write the programme to achieve the IDE issues

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Selenium-RC is the solution for tests that need a little more than just simple browser actions and a linear execution. Selenium-RC leverages the full power of programming languages, creating tests that can do things like read and write external files, make queries to a database, send emails with test reports, and practically anything else a user can do with a normal application.  
You will want to use Selenium-RC whenever your test requires logic not supported by running a script from Selenium-IDE

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Selenium IDE   
Works in Firefox 2+ Start browser, run tests Run tests  
Operating Systems Supported:   
1. Windows,  
2. OS X  
3. Linux  
4. Solaris  
5. Others whichever supports Firefox 2+   
Selenium Remote Control   
Used for starting browser and run tests  
Operating Systems Supported:   
1. Windows,  
2. OS X  
3. Linux  
4. Solaris  
5. Others   
Selenium Core   
Used for running tests  
Operating Systems Supported:   
1. Windows,  
2. OS X  
3. Linux  
4. Solaris  
5. Others

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**Supported browsers for Selenium RC include:**  
1. \*firefox  
2. \*mock  
3. \*firefoxproxy  
4. \*pifirefox  
5. \*chrome  
6. \*iexploreproxy  
7. \*iexplore  
8. \*firefox3  
9. \*safariproxy  
10. \*googlechrome  
11. \*konqueror  
12. \*firefox2  
13. \*safari  
14. \*piiexplore  
15. \*firefoxchrome  
16. \*opera  
17. \*iehta  
18. \*custom   
**Note:** Any third party browser is supported with \*custom followed by the complete path of the browser with executable

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**[Which is the command used for displaying the values of a variable into the output console or log? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/which-is-command-used-for-displaying.html)**

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The command used for displaying the values of a variable into the output console or log - echo  
If you want to display a constant string. The below mentioned command can be used  
**echo <constant string>  
ex: echo "The sample message"**  
If you want to display the value of a variable it can be written like below  
**echo ${<variable name>>  
ex: echo ${var1}**  
**Note:** Here var1 is the variable.

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**[How to export the tests from Selenium IDE to Selenium RC in different languages? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/how-to-export-tests-from-selenium-ide.html)**

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**From selenium IDE the test cases can be exported into the languages**:  
1. .Net,  
2. Java,  
3. Perl,  
4. Python,  
5. PHP,  
6. Ruby   
**The below mentioned steps can explain how to export the test cases**:  
1. Open the test case from Selenium IDE  
2. Select File -> Export Test Case As

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**[How to debug the tests in Selenium IDE? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/how-to-debug-tests-in-selenium-ide.html)**

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**To debug or execute the test cases line by line. Follow the below mentioned steps**  
1. Insert a break point (see the question to know more How to insert a break point in Selenium IDE? )from the location where you want to execute step by step  
2. Run the test case  
3. execution will be paused at the given break point  
4. Click on the step (Blue) button to continue with the next statement  
5. Click on Run button, to continue executing all the commands at a time.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/how-to-debug-tests-in-selenium-ide.html)

**[How to insert a break point in Selenium IDE? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/how-to-insert-break-point-in-selenium.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=387557150392351081)

**Break point can be set in two ways in Selenium IDE:**  
1. Right click on the command in Selenium IDE and select "Toggle Break Point"  
2. Select the command in Selenium IDE and press "B" key on the keyboard  
3. If you want to clear the break point once again Spress "B" key on the keyboard  
4. You can set multiple break points in Selenium IDE.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/how-to-insert-break-point-in-selenium.html)

**[How to insert a comment in Selenium IDE? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/how-to-insert-comment-in-selenium-ide.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=4818407986798936699)

**Comments in Selenium IDE can be set in two ways**  
1. Right click on the command in Selenium IDE and select "Inert New Comment"  
2. If you want to comment an existing line. You need to follow the below mentioned steps.  
a. Select the source tab in IDE  
b. Select the line which you want to comment  
c. Assume that if you want to comment a open command you need to write like below mentioned code   
**<tr>   
<!--   
<td>open&l/td>  
<td>/node/304/edit&l/td>  
<td></td>   
-->   
</tr>**

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/how-to-insert-comment-in-selenium-ide.html)

**[How to insert a start point in Selenium IDE? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/how-to-insert-start-point-in-selenium.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=5455945739045580017)

**Start point Selenium IDE can be set in two ways**:  
1. Right click on the command in Selenium IDE and select "Set / Clear Start Point"  
2. Select the command in Selenium IDE and press "S" key on the keyboard  
3. You can have only one start point  
4. If you have already set one start point and you selected other command as start point. Then the first start point will be removed and the new start point will be set.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/how-to-insert-start-point-in-selenium.html)

**[How to execute a single line command from Selenium IDE? Selenium](http://blosumsdotnet.blogspot.in/2012/05/how-to-execute-single-line-command-from.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=9208126342056454173)

**Single line command from Selenium IDE can be executed in two ways**  
1. Right click on the command in Selenium IDE and select "Execute This Command"  
2. Select the command in Selenium IDE and press "X" key on the keyboard.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/how-to-execute-single-line-command-from.html)

**[Which are the browsers supported by Selenium IDE? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/which-are-browsers-supported-by.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=4082108894957902997)

Selenium IDE supports only one browser Mozilla Firefox.  
**The versions supported as of now are:**  
Mozilla Firefox 2.x  
Mozilla Firefox 3.x  
The versions not supported as of now are:  
earlier versions of Mozilla Firefox 2.x  
Mozilla Firefox 4.x.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/which-are-browsers-supported-by.html)

**[What are the challenges with Selenium IDE? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-are-challenges-with-selenium-ide.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=53711844353410636)

**Selenium-IDE does not directly support:**  
1. condition statements  
2. iteration or looping  
3. logging and reporting of test results  
4. error handling, particularly unexpected errors  
5. database testing  
6. test case grouping  
7. re-execution of failed tests  
8. test case dependency  
9. capture screenshots on test failures  
10. Results Report generations.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-are-challenges-with-selenium-ide.html)

**[What are the capabilities of Selenium IDE? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-are-capabilities-of-selenium-ide.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=784398590458739788)

Selenium IDE (Integrated Development Environment) works similar to commercial tools like QTP, Silk Test and Test Partner etc.  
**The below mentioned points describes well about Selenium IDE.**  
1. Selenium IDE is a Firefox add-on.  
2. Selenium IDE can support recording the clicks, typing, and other actions to make a test cases.  
3. Using Selenium IDE A Tester can play back the test cases in the Firefox browser  
4. Selenium IDE supports exporting the test cases and suites to Selenium RC.  
5. Debugging of the test cases with step-by-step can be done  
6. breakpoint insertion is possible  
7. Page abstraction functionality is supported by Selenium IDE  
8. Selenium IDE can supports an extensibility capability allowing the use of add-ons or user extensions that expand the functionality of Selenium IDE.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-are-capabilities-of-selenium-ide.html)

**[What are the test types supported by Selenium? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-are-test-types-supported-by.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=5044363183972752209)

**Selenium could be used for testing the web based applications. The test types can be supported are:**  
1. functional,  
2. regression,  
3. load testing   
**The automation tool could be implemented for post release validation with continuous integration tools like:**  
1. Jenkins,  
2. Hudson,  
3. QuickBuild  
4. CruiseCont

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-are-test-types-supported-by.html)

**[What are the technical challenges with selenium? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-are-technical-challenges-with.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=1791261627317073600)

**As you know Selenium is a free ware open source testing tool. There are many challenges with Selenium.**  
1. Selenium Supports only web based applications  
2. It doesn’t support any non web based (Like Win 32, Java Applet, Java Swing, .Net Client Server etc) applications  
3. When you compare selenium with QTP, Silk Test, Test Partner and RFT, there are many challenges in terms of maintainability of the test cases  
4. Since Selenium is a freeware tool, there is no direct support if one is in trouble with the support of applications  
5. There is no object repository concept in Selenium, so maintainability of the objects is very high  
6. There are many challenges if one have to interact with Win 32 windows even when you are working with Web based applications  
7. Bitmap comparison is not supported by Selenium  
8. Any reporting related capabilities, you need to depend on third party tools  
9. You need to learn any one of the native language like (.Net, Java, Perl, Python, PHP, Ruby) to work efficiently with the scripting side of selenium.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-are-technical-challenges-with.html)

**[What do you know about Selenium? | selenium](http://blosumsdotnet.blogspot.in/2012/05/what-do-you-know-about-selenium.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=5920867993416364837)

Selenium is a suite of tools for web automation testing.  
Selenium first came to life in 2004 when Jason Huggins was testing an internal application at ThoughtWorks.  
Selenium was a tremendous tool, it wasn’t without it’s drawbacks. Because of its Javascript based automation engine and the security limitations browsers apply to Javascript, different things became impossible to do.   
**Selenium Suite of projects include:**  
Selenium IDE  
Selenium Core  
Selenium 1 (known as. Selenium RC or Remote Control)  
Selenium 2 (known as. Selenium Webdriver)  
Selenium-Grid.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-do-you-know-about-selenium.html)

**[What is difference between QTP and Selenium? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-is-difference-between-qtp-and.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=7148916756237812588)

 Only web applications can be testing using Selenium testing suite. However, QTP can be used for testing client server applications. Selenium supports following web browsers: Internet Explorer, Firefox, Safari, Opera or Konqueror on Windows, Mac OS X and Linux. However, QTP is limited to Internet Explorer on Windows.  
  
QTP uses scripting language implemented on top of VB Script. However, Selenium test suite has the flexibility to use many languages like Java, .Net, Perl, PHP, Python, and Ruby.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-is-difference-between-qtp-and.html)

**[What are the advantages and disadvantages of using Selenium as testing tool? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-are-advantages-and-disadvantages.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=8677163794071133627)

**Advantages:** Free, Simple and powerful DOM (document object model) level testing, can be used for continuous integration; great fit with Agile projects.  
**Disadvantages:**Tricky setup; dreary errors diagnosis; can not test client server applications.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-are-advantages-and-disadvantages.html)

**[What programming languages can you use in Selenium RC? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-programming-languages-can-you-use.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=1813571572726063362)

 C#, Java, Perl, PHP, Python, Ruby.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-programming-languages-can-you-use.html)

**[What browsers are supported by Selenium Remote Control? | selenium](http://blosumsdotnet.blogspot.in/2012/05/what-browsers-are-supported-by-selenium.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=1194132836186875514)

The test automation expert can use Firefox, IE 7/8, Safari and Opera browsers to run tests in Selenium Remote Control.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-browsers-are-supported-by-selenium.html)

**[What is the cost of Selenium test suite? selenium](http://blosumsdotnet.blogspot.in/2012/05/what-is-cost-of-selenium-test-suite.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=6188682249021486765)

 Selenium test suite a set of open source software tool, it is free of cost.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-is-cost-of-selenium-test-suite.html)

**[What test can Selenium do? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-test-can-selenium-do-selenium.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=8217793873771973601)

 Selenium is basically used for the functional testing of web based applications. It can be used for testing in the continuous integration environment. It is also useful for agile testing

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-test-can-selenium-do-selenium.html)

**[What you say about the flexibility of Selenium test suite? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-you-say-about-flexibility-of.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=5168364070301645459)

 Selenium testing suite is highly flexible. There are multiple ways to add functionality to Selenium framework to customize test automation. As compared to other test automation tools, it is Selenium’s strongest characteristic. Selenium Remote Control support for multiple programming and scripting languages allows the test automation engineer to build any logic they need into their automated testing and to use a preferred programming or scripting language of one’s choice. Also, the Selenium testing suite is an open source project where code can be modified and enhancements can be submitted for contribution.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-you-say-about-flexibility-of.html)

**[How Selenium Grid works? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/how-selenium-grid-works-selenium.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=1252650286468005613)

Selenium Grid sent the tests to the hub. Then tests are redirected to an available Selenium RC, which launch the browser and run the test. Thus, it allows for running tests in parallel with the entire test suite.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/how-selenium-grid-works-selenium.html)

**[What is Selenium Grid? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-is-selenium-grid-selenium.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=7015929565260299220)

Selenium Grid in the selenium testing suit allows the Selenium RC solution to scale for test suites that must be run in multiple environments. Selenium Grid can be used to run multiple instances of Selenium RC on various operating system and browser configurations.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-is-selenium-grid-selenium.html)

**[What is Selenium RC (Remote Control)? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-is-selenium-rc-remote-control.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=8481948401606403056)

 Selenium RC allows the test automation expert to use a programming language for maximum flexibility and extensibility in developing test logic. For example, if the application under test returns a result set and the automated test program needs to run tests on each element in the result set, the iteration / loop support of programming language’s can be used to iterate through the result set, calling Selenium commands to run tests on each item. Selenium RC provides an API and library for each of its supported languages. This ability to use Selenium RC with a high level programming language to develop test cases also allows the automated testing to be integrated with the project’s automated build environment.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-is-selenium-rc-remote-control.html)

**[What are the disadvantage of Selenium IDE tool? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-are-disadvantage-of-selenium-ide.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=8680477615522613260)

1. Selenium IDE tool can only be used in Mozilla Firefox browser.   
2. It is not playing multiple windows when we record it.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-are-disadvantage-of-selenium-ide.html)

**[What are the advantage and features of Selenium IDE? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-are-advantage-and-features-of.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=6484927294048962936)

1. Intelligent field selection will use IDs, names, or XPath as needed   
2. It is a record & playback tool and the script format can be written in various languages including : C#, Java, PERL, Python, PHP, HTML   
3. Auto complete for all common Selenium commands   
4. Debug and set breakpoints   
5. Option to automatically assert the title of every page   
6. Support for Selenium user-extensions.js file.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-are-advantage-and-features-of.html)

**[Can tests recorded using Selenium IDE be run in other browsers? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/can-tests-recorded-using-selenium-ide.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=6083890828257589886)

 Yes. Although Selenium IDE is a Firefox add on, however, tests created in it can also be run in other browsers by using Selenium RC (Selenium Remote Control) and specifying the name of the test suite in command line.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/can-tests-recorded-using-selenium-ide.html)

**[What is the use of context menu in Selenium IDE? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-is-use-of-context-menu-in-selenium.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=5688814874652445025)

 It allows the user to pick from a list of assertions and verifications for the selected location.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-is-use-of-context-menu-in-selenium.html)

**[What is Selenium IDE? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-is-selenium-ide-selenium.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=7663265841639265635)

 Selenium IDE is for building Selenium test cases. It operates as a Mozilla Firefox add on and provides an easy to use interface for developing and running individual test cases or entire test suites. Selenium-IDE has a recording feature, which will keep account of user actions as they are performed and store them as a reusable script to play back.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-is-selenium-ide-selenium.html)

**[What are the main components of Selenium testing tools? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-are-main-components-of-selenium.html)**

[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=7539055573060602961)

 Selenium IDE, Selenium RC and Selenium Grid.

[Read More!](http://blosumsdotnet.blogspot.in/2012/05/what-are-main-components-of-selenium.html)

**[What is Selenium? | Selenium](http://blosumsdotnet.blogspot.in/2012/05/what-is-selenium-selenium.html)**

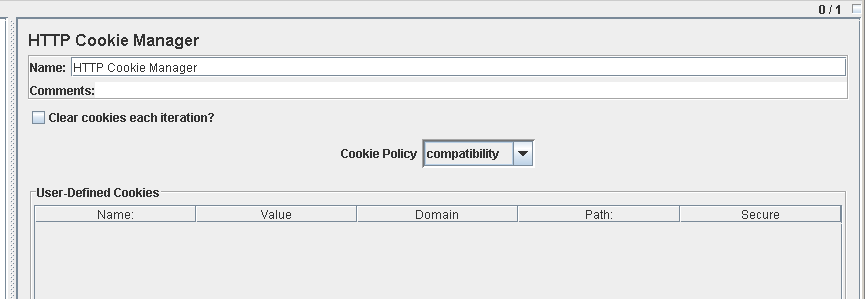
[0 comments](http://www.blogger.com/comment.g?blogID=4727464882373733215&postID=8433500382436960189)

**Selenium** is a set of tools that supports rapid development of test automation scripts for web based applications. Selenium testing tools provides a rich set of testing functions specifically designed to fulfil needs of testing of a web based application.

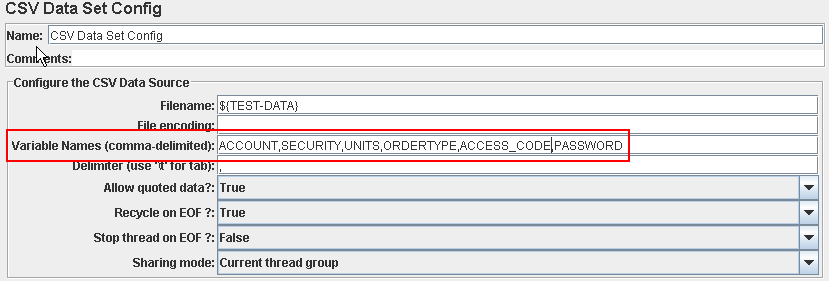
<http://java-success.blogspot.in/2011/10/jmeter-interview-questions-and-answers.html>

**Q. What are some of the challenges you faced with JMeter?**

If a subsequent request rely on the cookie set by the previous request, the "cookie manager" element is required.



When setting up the "CSV Data Set Config", don't have any spaces in the variable names.

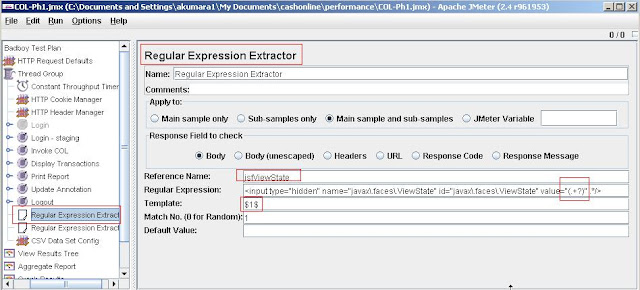


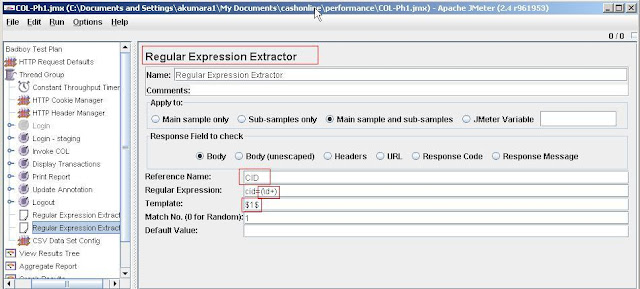
**What are Pre-Processor and Post-Processor elements? In what order does JMeter process various type of elements?**

A Pre-Processor executes some action prior to a Sampler Request being made. If a Pre-Processor is attached to a Sampler element, then it will execute just prior to that sampler element running. A Pre-Processor is most often used to modify the settings of a Sample Request just before it runs, or to update variables that aren't extracted from response text.

A Post-Processor executes some action after a Sampler Request has been made. If a Post-Processor is attached to a Sampler element, then it will execute just after that sampler element runs. A Post-Processor is most often used to process the response data, often to extract values from it.

A Regular Expression Extractor can be used as a Post-Processor element to extract values to be used elsewhere in subsequent requests. For example, if you are using JSF and Seam frameworks, the jsfViewState and CID values can be extracted as shown below:





The elements are executed in the following order as per the JMeter documentation.

0. Configuration elements

1. Pre-Processors

2. Timers

3. Sampler

4. Post-Processors (unless SampleResult is null)

5. Assertions (unless SampleResult is null)

6. Listeners (unless SampleResult is null)

Timers, Assertions, Pre- and Post-Processors are only processed if there is a sampler to which they apply. Logic Controllers and Samplers are processed in the order in which they appear in the tree. Other test elements are processed according to the scope in which they are found, and the type of test element.

**Q. How do you ensure re-usability in your JMeter scripts?**

Using config elements like "CSV Data Set Config", "User Defined Variables", etc for greater data reuse.

Modularizing shared tasks and invoking them via a "Module Controller".

Writing your own BeanShell functions, and reusing them.