**Centralized Document in** [**http://localhost:7070/FrontPage.UiWikiStandards**](http://localhost:7070/FrontPage.UiWikiStandards)

**Centralized document (for all teams) explaining reasons why fitness methods may fail w/ solutions or work arounds**

1. When using the **compareFirstStringAgainstSecondString** method you will sometimes encounter an error even though the strings being compared are identical. There are two things to keep in mind, first DO NOT copy and paste into an editor such as word or pages. These editors have an encoding type of UTF16 which slightly alters text in a way that the human eye cannot see but the code is no longer the same. Code written with editors like Intellij use UTF8 and render text differently. This is especially true for characters such as “-“ and “|” but surely there are others. Copy directly from the source. What I mean is, select the text you want to compare in the HTML page and paste directly into the fitnesse wiki without temporarily storing the text in any editor. This will ensure that the text picked up by the method will match the text being compared.
2. Commands such as **isExists** and **isNotExists** are not recommended because they are written to use IDs, Class names or an xPath, however they only execute with the use of an ID. This is because of poor (or possibly incomplete) API design.
3. Use hot keys to auto format your code. This will properly indent your code and line up comments in proper order. Using Intellij on a Mac, the keys are Cmd + option + L (use google to discover commands for other editors).
4. If using the AAcom repo, import the AAcom scheme to activate American Airlines formatting standards. Press (Cmd + ,) to enter the preferences panel and type in “format” in the above search bar. Under “Code style” select XML. At the top you will see an option labeled “Scheme:” with a cog-wheel next to it. Click on the cog-wheel and select import scheme. You will be given two options, select Eclipse XML profile. The path to the file you need to import is AAcom-Release>config>eclipse>AAcom-CodeReformat.xml, then select AAcom2011 and click ok. After importing this file, preforming an auto format will apply American Airlines rules to your code.
5. Use hot keys to remove unused imports. Your project will not build with unused imports. Press (Cmd + ,) to enter the preferences panel and type in “optimize imports” in the search bar. Double click “optimize imports”, you may use existing hot keys that are specified in this menu or add customs keys to optimize your imports.
6. If attempting to return the value of an input element, you must use element.getAttribute(“value”). As far as the DOM is concerned an input box has a value attribute, but other elements like <a> and <h2> have an inner text without value, therefore the element.getText() method will fail on an input field.
7. Chrome Browser “Right Click” issue – If running tests using ChromeBrowser version 63 you may experience the click command performing a right click instead of left. To solve this issue use Chrome Browser version 61 with the current issue of selenium which is 2.53.1. Since ChromeBrowser is setup to automatically update itself once launched, it will search for the latest version after you install 61, therefore your changes will be reverted. To prevent this from happening you need to change the permissions and ownership of the Google folder and its contents. Open a new terminal and navigate to: cd ~/Library/Google, then change ownership by executing sudo chown nobody:nogroup GoogleSoftwareUpdate and finally set permissions to no access so that Chrome cannot automatically write new updates. Simply execute sudo chmod 000 GoogleSoftwareUpdate to do this. These commands should be sufficient enough however, it failed for one of the macs in our office so to be sure you can navigate up one level by typing cd .. and setting permissions to 000 on the Google folder itself by typing sudo chmod 000 Google. Keep in mind that these permissions will also lock you out. You need to run these commands before the browser has launched. Once you launch, when you check your “about chrome” it should display update failed.