**页面等待处理详解**

**1、……AndWait**

      经常会看到， selenium action命令中很多有这种……AndWait后缀， 例如click和clickAndWait命令：

click命令：点击操作后， 直接进入下一个动作， 不做等待；

clickAndWait 命令，则是在click之后，自动执行一次waitForPageToLoad，等待直到当前窗口载入一个新页面， 然而，这种等待只适合那些会引起页面刷新的，如果页面不是在当前窗口载入（比如是在一个弹出窗口，或者在一个iframe里载入），那么用AndWait是无法做到正确等待的，它会一直等待当前窗口的页面载入直到超时，这种情况造成白白等待+timeout警告，另外常见的Ajax效果的界面， 使用……AndWait来等待也不起效

还有typeAndWait  selectAndWait等等

**2、waitFor……**

比较好的等待方式是使用waitFor……来等待需要的元素出现，例如,waitForElementPresent， 默认等待30秒， 在30秒内，如果元素已经出现， 马上响应，否则报超时，可以通过IDE里options->options……中General tab来设置默认的timeout时间。

这里摘录了下官网文档中对 “不做等待”，AndWait, waitFor三种方式的阐述：

//1)The difference between a command and its AndWait alternative is that the regular command (e.g. click) will do the action and continue with the following command as fast as it can, while the AndWait alternative (e.g. clickAndWait) tells Selenium to wait for the page to load after the action has been done.

//2)The AndWait alternative is always used when the action causes the browser to navigate to another page or reload the present one.

//3)In AJAX driven web applications, data is retrieved from server without

这里列出常用的waitFor命令：

|  |  |  |  |
| --- | --- | --- | --- |
| waitForElementPresent | locator |  | 等待直到某个元素在页面中存在 |
| waitForElementNotPresent | locator |  | 等待直到某个元素在页面中不存在 |

|  |  |  |  |
| --- | --- | --- | --- |
| waitForTextPresent | text |  | 等待直到某个文本在页面中存在 |
| waitForTextNotPresent | text |  | 等待直到某个文本在页面中不存在 |

|  |  |  |  |
| --- | --- | --- | --- |
| waitForText | locator | text | 等待直到locator指定元素内的文本符合text |
| waitForNotText | locator | text | 等待直到locator指定元素内的文本不符合text |

|  |  |  |  |
| --- | --- | --- | --- |
| waitForVisible | locator |  | 等待直到locator指定元素在页面中可见 |
| waitForNotVisible | locator |  | 等待直到locator指定元素在页面中不可见 |

|  |  |  |  |
| --- | --- | --- | --- |
| waitForTitle | title |  | 等待直到页面标题符合所指定的title |
| waitForNotTitle | title |  | 等待直到页面标题不符合所指定的title |

|  |  |  |  |
| --- | --- | --- | --- |
| waitForLocation | url |  | 等待直到页面的地址符合所指定的url |
| waitForNotLocation | url |  | 等待直到页面的地址不符合所指定的url |

|  |  |  |  |
| --- | --- | --- | --- |
| waitForValue | locator | value | 等待直到locator指定的元素的value值符合指定的值 |
| waitForNotValue | locator | value | 等待直到locator指定的元素的value值不符合指定的值 |

|  |  |  |  |
| --- | --- | --- | --- |
| waitForAttribute | [locator@attr](mailto:locator@attr) | value | 等待直到locator指定的元素的attr属性值符合指定的值 |
| waitForNotAttribute | [locator@attr](mailto:locator@attr) | value | 等待直到locator指定的元素的attr属性值不符合指定的值 |

|  |  |  |  |
| --- | --- | --- | --- |
| waitForChecked | locator |  | 等待直到locator指定的radio或checkbox成为选中状态 |
| waitForNotChecked | locator |  | 等待直到locator指定的radio或checkbox成为非选中状态 |

|  |  |  |  |
| --- | --- | --- | --- |
| waitForEditable | locator |  | 等待直到locator指定的input或textarea元素可编辑 |
| waitForNotEditable | locator |  | 等待直到locator指定的input或textarea元素不可编辑 |

|  |  |  |  |
| --- | --- | --- | --- |
| waitForXpathCount | xpath | count | 等待直到页面符合xpath的数量为count |
| waitForNotXpathCount | xpath | count | 等待直到页面符合xpath的数量不为count |

|  |  |  |  |
| --- | --- | --- | --- |
| waitForEval | script | pattern | 等待直到script的执行结果符合pattern |
| waitForNotEval | script | pattern | 等待直到script的执行结果不符合pattern |