**Website –**

[RegEx Search (uipath.com)](https://docs.uipath.com/studio/v2021.10/docs/regex-search)

**RegEx Search**

[SUGGEST EDITS](https://docs.uipath.com/studio/v2021.10/docs/regex-search)

**About RegEx Search**

A regular expression, or RegEx, is a special text string for describing a search pattern. This makes them ideally suited for searching, text processing, and data validation. Using the RegEx search capabilities in selectors enables you to identify multiple target element with a single search execution. Without RegEx, multiple selectors would have been built to identify each target element.

**How RegEx Search Works**

In order to use the RegEx search capabilities, a matching option needs to be included in the tag of the element you want to identify, as follows:

| **Option** | **Description** |
| --- | --- |
| matching:<tag\_name>=’regex’ | Allows you to specify the target search tag, determined by the <tag\_name> value. |
| <tag\_name>='<regex\_command>' | Allows you to specify the search pattern through the <regex\_command> expression used to identify the <tag\_name>. |

Currently, the RegEx search is supported by the following selector types:

| **Selector Type** | **Support** |
| --- | --- |
| <wnd> | check_markcheck_mark |
| <html> | check_markcheck_mark |
| <webctrl> | check_markcheck_mark |
| <java> | check_markcheck_mark |
| <ctrl> | check_markcheck_mark |
| <sap> | check_markcheck_mark |
| Tags which identify a process name. Example: <html app="firefox.exe"> | no_rightno_right |

**Examples of Using RegEx Search**

Let's assume that we want to create an automation process which targets the Calculator application. However, for the purpose of this example, the value of the <name> tag alters between 0 and 2. Without the RegEx search, two selectors would have been built, one for each value of the <name> tag, as follows:

Selector for <name='Display is 0'> tag

<wnd app='applicationframehost.exe' appid='Microsoft.WindowsCalculator\_8wekyb3d8bbwe!App' title='Calculator' />

<uia cls='LandmarkTarget' />

<uia automationid='CalculatorResults' name='Display is 0' role='text' />

Selector for the <name='Display is 2'> tag

< wnd app='applicationframehost.exe' appid='Microsoft.WindowsCalculator\_8wekyb3d8bbwe!App' title='Calculator' />

<uia cls='LandmarkTarget' />

<uia automationid='CalculatorResults' name='Display is 2' role='text' />

Introducing RegEx search inside the second <uia> tag makes it possible to generate a single selector to match both cases. A valid selector, in this case, looks something like this:

Selector With RegEx Search

<wnd app='applicationframehost.exe' appid='Microsoft.WindowsCalculator\_8wekyb3d8bbwe!App' title='Calculator' />

<uia cls='LandmarkTarget' />

<uia automationid='CalculatorResults' name='Display is \d' role='text' matching:name='regex' />

The matching:name='regex' attribute instructs our selector to use RegEx to identify the <name> tag, while the <name='Display is \d'> command returns all the numerical values for the <name> tag it identifies.

Below are a couple of more examples on how RegEx search works and what values it returns: