

# GET CSS PROPERTY INFO ACTIVITIES

UiPath Custom Library  
Documentation



## 1 INTRODUCTION

With activities from this custom library the information about CSS Properties for a (X)HTML element can be retrieved.

### 1.1 Overview

Following activities are available:

- Get CSS Property Keys - returns a list of available CSS Property Keys
- Get CSS Property Value - returns the computed CSS Property Value for a particular Key

### 1.2 Description

CSS Properties are not part of the available attributes of an UiPath.Core.UiElement representing a (X)HTML Element. But dealing with this additional information allows the implementation of more complex scenarios.

#### **Examples for CSS Properties as additional (X)HTML element Information:**

- Color information like Font Color, Background Color etc.
- Font information like Font Family, Size, Bold formatting etc.
- CSS typical information like display status, margins etc.

#### **Examples for making benefit of this additional (X)HTML element Information:**

- Finding a data table cell data representing information with formatting
  - e.g. Find cells that that have text in Red
- Retrieving the display status for an element (hidden, displayed)

Retrieving this information e.g. via style definitions is complex and not reliable. The style or class definition can be defined even on higher top level and a particular element inherits it. So the definition is not present on element level

With the combination of Javascript the once defined settings also can be modified and will differ from initial style definition. So reading any definitions e.g. CSS Rules has the risk of not reflecting the actual value of the CSS Property for the HTML Element.

**This Custom Library returns reliable the additional HTML element information which is computed and valid for runtime.**

The scope of the available CSS Properties handled by this Custom Library is technically defined within the CCS Object Model (CSSOM) implemented by the particular browser that is used.

### 1.3 Benefits

- returned CSS Property Value is computed for the request and represents the current value
- additional information along to an UiPath.Core.UiElement properties will be available



## 2 GET CSS PROPERTY INFO ACTIVITIES

### 2.1 Get CSS Property Keys

Each Browser implements its own set of CSS Properties. In order to retrieve the available key this activity will return a string list with the CSS Property names

<b>Common</b>	
DisplayName	get CSS Property Keys
<b>Input</b>	
uiElement	uiElement ...
<b>Misc</b>	
Private	<input type="checkbox"/>
<b>Output</b>	
CSSPropertyKeys	CSSPropertyKeys ...

#### 2.1.1 Settings

Direction	Name	Data Type	Comment
Input	uiElement	UiPath.Core.UiElement	Passed variable has to represent a valid (x)html element
Output	CSSPropertyKeys	List<String>	A list of CSS Property names as defined by the browser and is returned without any conversion e.g. to upper case

#### 2.1.2 Exceptions

Case	Comment
uiElement is null	Activity will throw an exception
uiElement is not representing an (X)HTML element	Out of the box from UiPath an exception will be thrown



## 2.2 Get CSS Property Value

Activity returns the value of a particular CSS Property for the assigned uiElement representing the (x)html element.

<b>Common</b>	
DisplayName	get CSS Property Value
<b>Input</b>	
CSSPropertyKey	"color" ...
uiElement	uiElement ...
<b>Misc</b>	
Private	<input type="checkbox"/>
<b>Output</b>	
CSSPropertyValue	CSSPropertyValue ...

### 2.2.1 Settings

Direction	Name	Data Type	Comment
Input	CSSPropertyKey	String	Key name has to be in the format as implemented by the browser
Input	uiElement	UiPath.Core.UiElement	Passed variable has to represent a valid (x)html element
Output	CSSPropertyValue	String	Value will be returned as retrieved from the browser

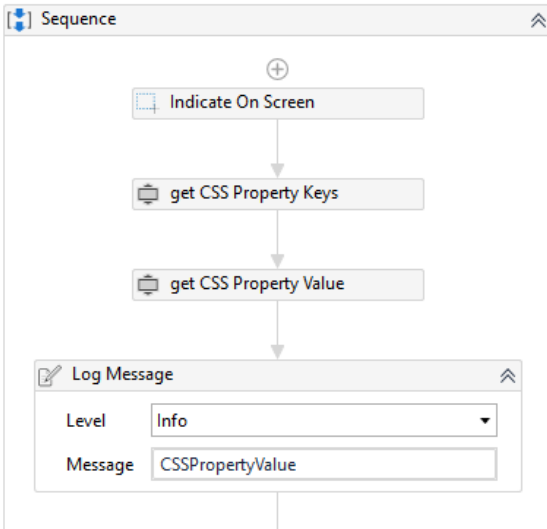
### 2.2.2 Exceptions

Case	Comment
uiElement is null	Activity will throw an exception
uiElement is not representing an HTML element	Out of the box from UiPath an exception will be thrown
CSS Property Value starts with "SyntaxError"	Internal Exception of the value retrieval will block the return of not retrieved value due a Javascript Error



### 3 SCREENSHOTS

A demo flow for adhoc inspection:



#### CSS Property Keys:

▲ CSSPropertyKeys	List<String>	List<string> (1055) { "alignContent", "align...
Capacity	Int32	2048
Count	Int32	1055 🔍
▲ Raw View	List<String>	Count = 1055
(0)	String	"alignContent"
(1)	String	"align-content"
(2)	String	"alignItems"
(3)	String	"align-items"
(4)	String	"alignSelf"
(5)	String	"align-self"
(6)	String	"backfaceVisibility"
(7)	String	"backface-visibility"

#### CSS Property Value for the key "color":

CSSPropertyValue	String	"rgb(148, 159, 180)"
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#### CSS Property Value for the key "display":

CSSPropertyValue	String	"inline"
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