



Getting Started with Vision AI

Hands-on Guide

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What is this document for?

This hands-on guide is designed to help you explore the process of Scanning the controls using Vision AI and creating TestCase to work with the Run VisionScript Module in Tricentis Tosca and enhance your functional knowledge of the product.

In this document, you are provided with a list of prerequisites and detailed instructions to walk you through the steps to achieve the desired result(s) for the listed assignment(s).

We encourage you to use this document to support your knowledge of Tosca, compare it with your alternate practical implementation method(s), and improve your overall know-how of the tool.

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Steer HTML Div Table using Vision AI – Use Case

+ Objective

By the end of these exercise(s), you will be able to demonstrate how to:

- ◆ Steer the Div table of an HTML webpage as a table control using Vision AI

+ Why is this important?

While automating the applications using Tosca you may come across controls which are not steerable using TBox Engine. You can create a customization of the respective control to steer and recognize it as expected control. However, its much effortful and needs more technical knowledge on coding language.

With Vision AI you can scan the controls which are not steerable using TBox Engine as expected without writing any customization. For example HTML Div table can be steered as table control using Vision AI.

+ Steps to perform

Here are the steps you need to perform to create TestCase in the TestCase section of Tosca. Please remember to follow the steps in sequence to achieve the desired results.

Section I: Scan and Save Module for HTML Div Table

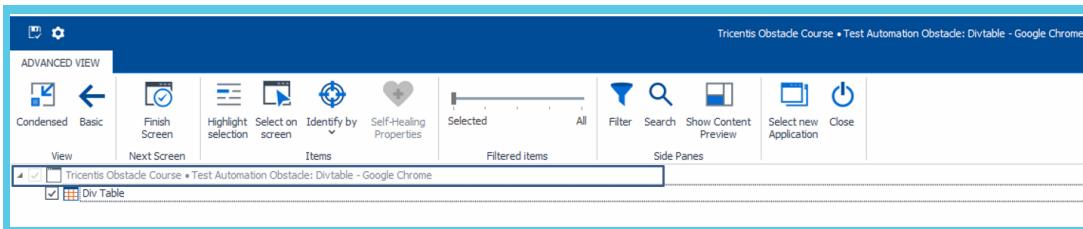


Note

As mentioned in the pre-requisites, import the base subset either at the project root level or in a new Component Folder to begin with the steps below.

- 1 | Open the application –
<https://obstaclecourse.tricentis.com/Obstacles/Next?oID=57445>
- 2 | Launch the Tosca Commander where you have the Base Subset imported and navigate to the Module section.
- 3 | Navigate to the Module Folder **VisionAI|Div Table** and open the XScan.
- 4 | In the XScan window select the **HTML Div Table** application, right click and choose **Vision AI**, then select **Scan**. Click on Continue if prompted confirmation.
- 5 | With the **Select on screen** option, select the table **Column one** and rename it to '**Div Table**'.
- 6 | Rename the root webpage node to '**Test Automation Obstacle|Divtable**' in XScan and Save the Module.

Steer HTML Div Table using Vision AI - Use Case



7 | Close the **XScan**.

Section II: Create the TestCase to Buffer and Verify Div HTML Table values

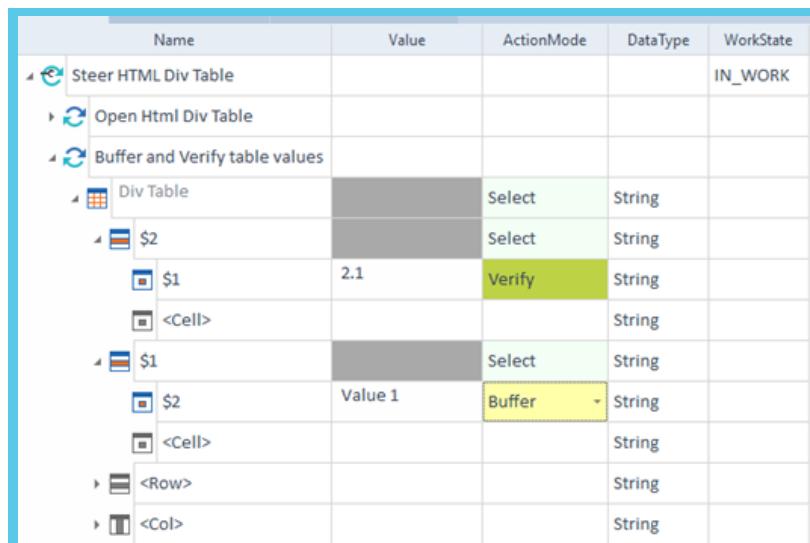
In continuation to the last section, follow the steps below.

1 | Navigate to the TestCase Folder **Vision AI Test Cases** and open the TestCase **Steer HTML Div Table**.

2 | Add the TestStep using Module **Test Automation Obstacle|Divtable** and rename it to '**Buffer and Verify table values**'.

3 | Add the TestStepValues as mentioned below:

TestStep Name	Name(TestStepValue)	Value	Action Mode
Buffer and Verify table values	Div Table		Select
	Row- \$2		Select
	Cell- \$1	2.1	Verify
	Row- \$1		Select
	Cell- \$2	Value 1	Buffer



4 | Run the TestCase in ScratchBook, update the Workstate to **COMPLETED** after successful execution

Steer HTML Div Table using Vision AI – Use Case

+ Observation

You will observe that on execution of the TestCase Steer HTML Div Table will pass, and expected table value is buffered and verified.

Create TestCase using VisionScript Module – Use Case

+ Objective

By the end of these exercise(s), you will be able to demonstrate how to:

- ◆ Create TestSteps for steering the controls using Vision Script

+ Why is this important?

Vision Script overcomes the limitations of Vision AI.

In this exercise you will create a TestCase to open the demo webshop application and Login using the Run VisionScript Module of Tosca.

+ Steps to perform

Here are the steps you need to perform to create a TestCase in the TestCase section of Tosca. Please remember to follow the steps in sequence to achieve the desired results.

– Section I: Create a TestSteps to Open the Demo WebShop and Login



Note

In continuation of the first usecase use the subset imported, and continue working in the Tosca Commander.

- 1 | Navigate to the TestCase Folder **Vision AI Test Cases**.
- 2 | Create a new TestCase – '**Login to Web Shop**' and change the WorkState to **IN_WORK**.
- 3 | Add a TestStep using the **OpenUrl** Module and rename it to **Open Demo WebShop**.
- 4 | Enter the value <https://demowebshop.tricentis.com/> in the TestStepValue **Url**.
- 5 | Add a TestStep using **Run VisionScript** Module and rename it to '**Navigate to Log In Page**'.



Note

Run VisionScript Standard Module is available at **Modules>> Standard modules >> TBox XEngines >> Vision AI**

- 6 | Add the TestStepValues as mentioned below:

Create TestCase using VisionScript Module – Use Case

TestStep Name	Name(TestStepValue)	Value	Action Mode	Data Type
Navigate to Log In Page	Window	Demo Web Shop	Input	String
	VisionScript	CLICK 'Log in'	Input	String

Name	Value	ActionMode	DataType	WorkState
.Navigate to Log In Page				
Window	Demo Web Shop	Input	String	
VisionScript	CLICK 'Log in'	Input	String	
VisionScript			String	

7 | Add a TestStep using **Run VisionScript** Module and rename it to '**Log in**'.

8 | Add the TestStepValues as mentioned below:

TestStep Name	Name(TestStepValue)	Value	Action Mode	Data Type
Log In	Window	Demo Web Shop	Input	String
	VisionScript	TYPE "YourUserName" IN the 'Email' input	Input	String
	VisionScript	TYPE "YourPassword" IN the 'Password' input	Input	Password
	VisionScript	CLICK 'Log in'	Input	String

Name	Value	ActionMode	DataType	WorkState
.Log In				
Window	Demo Web Shop	Input	String	
VisionScript	TYPE "YourUserName" IN the 'Email' input	Input	String	
VisionScript	*****	Input	Password	
VisionScript	CLICK 'Log in'	Input	String	
VisionScript			String	

Create TestCase using VisionScript Module – Use Case

- 5 | Run the TestCase in ScratchBook, update the Workstate to **COMPLETED** after successful execution.

Significance of using Run VisionScript Module:

At places where you find the difficulties scanning the controls you can use the Run VisionScript Module to automate the TestSteps.

+ Observation

On execution of the TestCase you will observe that it will pass and open the DemoWebShop and Log in to the DemoWebShop