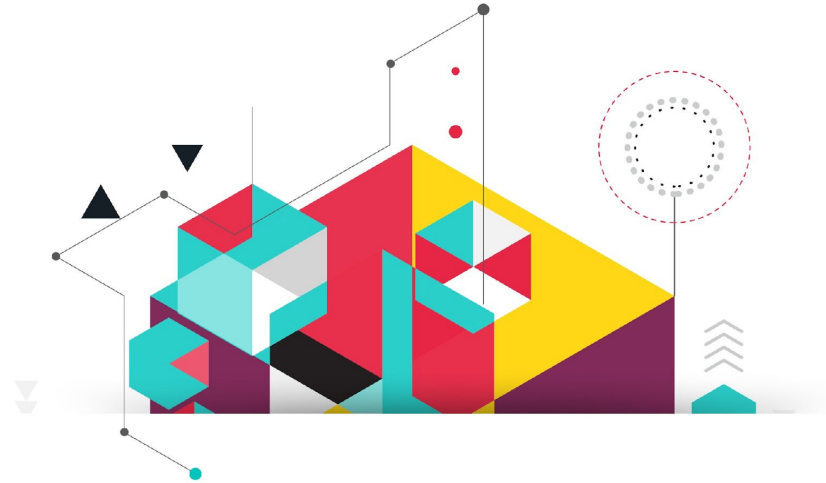


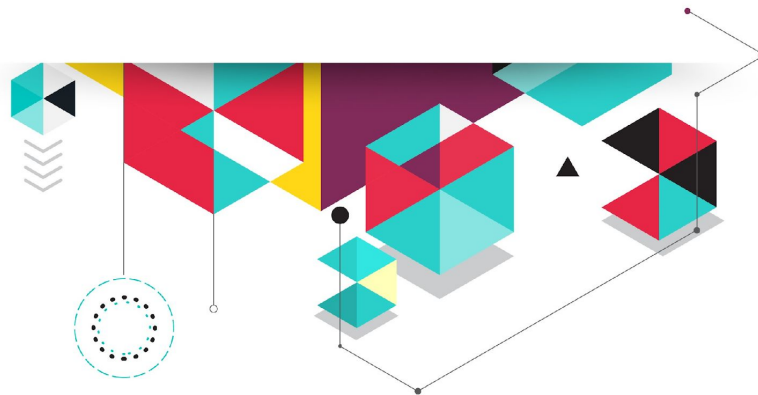


LESSON 7 – IMAGE AND TEXT AUTOMATION – RECAP

Overview








This chapter introduced you to the techniques used to automate virtualized environments, where all interactions are performed using images. In this context, you also learned how to use **Image-based automation** and **Optical Character Recognition** or **OCR**.



Takeaways

- Since you cannot use selectors on the image that is sent in a Citrix environment, the approach is a little different than in other scenarios: you perform actions in relation to some elements.
- In a Citrix environment, **Click Image** and **Click OCR Text** are your best friends for inputting.
- **Click OCR Text** uses **OCR** to find the target text.
- Both **Click OCR Text** and **Click Image** offer options for modifier keys, single or double click and left or right mouse buttons.
- Remember you can tweak the **Click Image**'s **Accuracy** property to get the desired results. This value goes from 0 to 1 and higher values mean higher similarity between the images.
- Getting information out of such environments is done through the use of 2 methods: Copy Selected Text (**Select & Copy** from the recorder) and **Scrape Relative**. Just keep in mind that for **Copy Selected Text** to work you need Clipboard sharing enabled between local and Citrix environment.
- **Scrape Relative** scrapes only a portion of an image, relative to an anchor.

Best practices

-  Click Image is fast and reliable, but sensitive to graphical variations, while **Click OCR Text** is immune to such changes but susceptible to OCR failures.
-  To avoid the problems that come with **Click OCR Text** and **Click Image** you should use keyboard shortcuts as much as possible.
-  Selecting too much or too little of an image might lead to it not being found or a false positive.
-  To get good results when matching images, the resolution should be at least equal to the one used when recording the workflows. You can also compensate such losses by lowering the **Accuracy** factor.
-  Pay attention to how the application layout changes on different resolutions when using coordinate based techniques.

Useful links



[About Image and Text Automation](#)

