



Customizing mouse operations (DeviceReplay)

The DeviceReplay object enables us to perform mouse and key board operations using code, for instance MouseMove, MouseClick, PressKe SendString, and DragAndDrop. Though in past years it was not so we documented in HP's materials, now, thanks to the work of some very dedicated people from the QTP (UFT) community, light has been she upon the workings of this object.

The ${\tt DeviceReplay}$ object is very important for automation, one reasc being that the common Test Object methods that UFT provides, such 10 days left in your trial. Click, do not always perform well. For example, quite often, one can Subscribe. encounter objects that do not respond to an onclick event unless the mouse is actually moved to a location within its bounding rectangle. In such a case, we may revert to the ${\tt DeviceReplay}$ object to override tClick method and perform the MouseMove operation before sending a MouseClick event.

This recipe describes how to use the DeviceReplay object to override the Click method and perform the MouseMove operation before sending a MouseClick event.

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Getting ready

From the File menu, navigate to $\textbf{New} \mid \textbf{Test},$ or use the Ctrl + Nshortcut, or open an existing function library.

How to do it...

In the function library, write the following code:

```
Public Function MouseClick_(ByRef obj)
           Dim dr
Dim X, Y, W, H
           If Not obj, GetROProperty("visible") Then
MouseClick = 1
Reporter.ReportVent micMarning, "MouseClick", _
"Object is not visible."
Exit Function
End If
           With obj

H = .GetROProperty("height")
W = .GetROProperty("width")
X = .GetROProperty("abs_x")
Y = .GetROProperty("abs_y")
End With
    End With

If X < 0 Or Y < 0 Then

MouseClick_ = 1

Else

X = X+W\2
Y = Y+H\2
Set dr = CreateObject("Mercury,DeviceReplay")
dr.MouseClick X, Y,
Mait 0, 50
dr.MouseClick X, Y, 0
Set dr = Nothing

MouseClick_ = 0
End If
End Punction
```

Register the function to the relevant Test Object classes, as shown in the Registering a method to all classes recipe (RegisterUserFunc) in Chapter 4, Method Overriding. For example, we could register the function to the Click method of the Image class (Web) as follows:

```
RegisterUserFunc "Image", "Click", "MouseClick_"
```

This is done so that, every time we invoke a click event for a Web image, it will first move the mouse to trigger the onmouseenter event.

How it works...

The function is generic as it takes an object as an argument. It first checks if the object is visible, which is obligatory to perform a MouseMove operation. Then it gets its position and dimensions, to check that it is not positioned out of the screen boundaries (this can happen sometimes with the top-left coordinates being less than zero). If these two checks are passed, then it calculates the middle point of the object, instantiates the ${\tt DeviceReplay}$ object, and moves the mouse to its center. A short delay is added, to ensure that the object reacts to the presence of the mouse within its boundaries, and only then, the MouseClick is performed.



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