

UI Recorder Enhancement

Results

Original XPath Code from UI Recorder

Longer XPath

```
/Pane[@ClassName="#32769"][@Name="桌面 1"]/Window[@ClassName="Window"]
[@Name="Chroma ATS IDE - [TI
Editor]"]/Custom[@AutomationId="Container"]/Pane[@ClassName="ScrollView"]/Custom
[@ClassName="MainControl"]/Group[@Name="dockManager"]
[@AutomationId="dockManager"]/Group[@Name="dockItem4"][starts-
with(@AutomationId,"dockItem")]/Group[@Name="dockItem1"][starts-
with(@AutomationId,"dockItem")]/Group[@Name="dockItem2"][starts-
with(@AutomationId,"dockItem")]/Group[@Name="dockItem3"][starts-
with(@AutomationId,"dockItem")]/Group[@Name="TIContextPanel"]
[@AutomationId="TIContextPanel"]/Custom[@ClassName="PGGridAeraView"]/DataGrid[@Aut
omationId="PGGrid"]/Pane[@Name="DataPanel"]
[@AutomationId="dataPresenter"]/DataItem[starts-
with(@Name,"Chroma.TestItemEditor.ComposedElement.Default.PGGridRowViewModel")]/Cu
stom[starts-with(@Name,"ReadAC_Current, Item:
Chroma.TestItemEditor.ComposedElement.Defa")][@AutomationId="CommandName"]
```

Shorter XPath

```
/DataItem[starts-
with(@Name,"Chroma.TestItemEditor.ComposedElement.Default.PGGridRowViewModel")]/Cu
stom[starts-with(@Name,"", Item:
Chroma.TestItemEditor.ComposedElement.Default.PGGridRowV")]
[@AutomationId="CommandName"]
```

Modified Code with Specific String Formats

Record Single Left Click

```
PP5IDEWindow.PerformClick("/ById[searchText]", ClickType.LeftClick);
```

Record Multiple Left Clicks

```
PP5IDEWindow.PerformClick("/ById[searchText]", ClickType.LeftClick);
PP5IDEWindow.PerformClick(, ClickType.LeftClick); // failed, no identifiers
```

```
recorded
PP5IDEWindow.PerformClick("/ById[btnYes]", ClickType.LeftClick);
PP5IDEWindow.PerformClick("/ById[Close]", ClickType.LeftClick);
```

Modified Code with Specific String Formats

```
// 0924, modified code:
PP5IDEWindow.PerformClick("/ByClass[PGGridAeraView]/ById[PGGrid,dataPresenter]",
ClickType.LeftClick);
PP5IDEWindow.PerformClick("/ById[PGGrid,dataPresenter,CommandName]",
ClickType.LeftClick);
PP5IDEWindow.PerformClick("/ById[editParamAreaView,ParameterGrid,dataPresenter]",
ClickType.LeftClick);
PP5IDEWindow.PerformClick("/ById[editParamAreaView]/ByClass[ScrollViewer,TextBox]"
, ClickType.LeftClick);
```

Functions

1. Can record the actions and format as the ***specified string formats*** section.
2. Skip XPath parts that start with: **starts-with**, **contains**.
3. Currently supported actions: **LeftClick**, **RightClick**, **LeftDoubleClick**.

TODOs

1. Comment support from UI Recorder:

- **// from UI recorder: locate By identifiers**
- **// from UI recorder: locate By control extension methods**
- **// from UI recorder: locate By normal methods**

2. Add support for formatting:

- **By control extension methods:** **MenuSelect**("Functions", "TI Editor"), **ToolBarSelect**(), ...
- **By normal methods:** (**/Window**[...]/**Text**[...])
- **By DataGrid related methods:** (**/Window**[...]/**Text**[...])
- **By complex actions of an extension method:**
 - Test Command related: **AddCommand**, **GetCommand**, ...
 - Parameters related: **CreateNewVariable1**(params), **CreateNewVariable2**(params)

3. Add support for action **InputType formatting style**:

1. Normal send keys: **"sendContent"**

2. Special actions:

- Ctrl + A: Select All
- Ctrl + C: Copy
- Ctrl + D: Paste
- ...

Specific String Formats

Record Click Action

```
PP5IDEWindow.PerformClick({LocatorPath}, {ClickTypes})
```

- **LocatorPath:** see "PerformGetElement" section.
- **ClickTypes:** `ClickType.LeftClick`, `InputType.Send`, ...

Example:

```
PP5IDEWindow.PerformClick("/ById[TCListPanel]/ById[PreviosBtn]",  
ClickType.LeftClick);  
PP5IDEWindow.PerformClick("/ByCell@PGGrid[1,@Skip]", ClickType.TickCheckBox);
```

Record Input Action

```
PP5IDEWindow.PerformInput({LocatorPath}, {InputTypes}, {textToInput})
```

- **LocatorPath:** see "PerformGetElement" section.
- **InputTypes:** `InputType.SelectAllContent`, `InputType.SendContent`, ...
- **textToInput:** null or "AnyText".

Example:

```
PP5IDEWindow.PerformInput("/ByCell@PGGrid[2,@TestCommand]",  
InputType.SelectAllContent, null);  
PP5IDEWindow.PerformInput("/ById[TCListPanel]/ById[SearchBox]",  
InputType.SendContent, "ReadAC_Current");
```

Record Inspect Action

```
PP5IDEWindow.PerformGetElement({LocatorPath})
```

- **LocatorPath Examples:**
 - `"/Window[Search Result]/ById[txtBlockMsg]"`
 - `"/ById[TCListPanel]/ById[searchText]"`
 - `"/ByCell@PGGrid[1,@Description]"`
- **LocatorPath Types:**

1. `"/Byxxx[Locator1,Locator2,Locator3,...]"` (Single By identifier with multiple element identifiers)
2. `"/Byxxx[Locator1]/Byyy[Locator2]"` (Multiple By identifiers with Single/multiple element identifiers)
3. `"/Window[Locator1]/Button[Locator2]"` (ControlType as identifier)
4. `"/Window[Locator1]/Byxxx[Locator2]/Byyy[Locator1,Locator2,Locator3,...]"`
(Mixed of above 1~3)

Example:

```
IElement ele = PP5IDEWindow.PerformInput("/ById[TCListPanel]/ById[searchText]",  
"/ByCell@PGGrid[1,@Description]");
```