

Text-based Windows GUI Automation

AGENDA

- IT Automation
- Windows GUI Automation
- Text-based Automation
- Demo

IT AUTOMATION

Automation accomplishes a task repeatedly without human intervention.

IT AUTOMATION

- Traditional: MS PowerShell, MS SCSM, CA Server Automation, BladeLogic Server Automation.
- DevOps: Ansible, StackStorm, Salt, Chef, Puppet.
- Windows GUI: Pywinauto, AutoPy, Lackey, PyAutoGUI, SikuliX, Sikuli.
- Web: Requestium, Requests, Selenium, Parsel, Beautiful Soup, Scrapy, Splinter, Mechanize.
- Mobile: Appium.

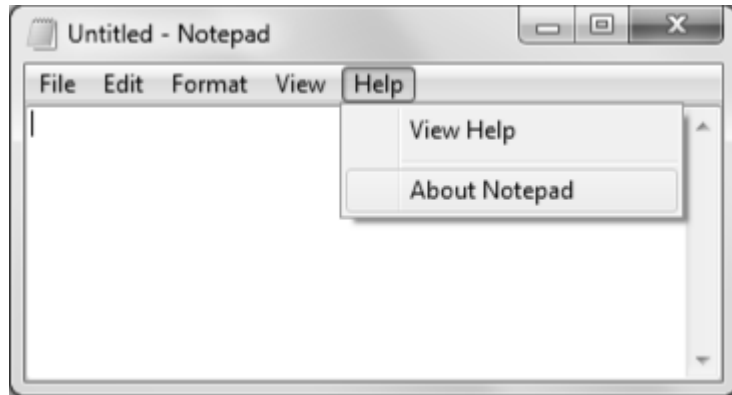
WINDOWS GUI AUTOMATION

WINDOWS GUI AUTOMATION

- Text-based Automation: Pywinauto.
- Image-based Automation: PyAutoGUI, AutoPy, Lackey, SikuliX, Sikuli.

TEXT-BASED AUTOMATION

	start date	contributors	stars
pywinauto	04-01-2006	44	677
autopy	01-10-2010	5	830
pyautogui	18-07-2014	22	1439
lackey	08-08-2016	5	308



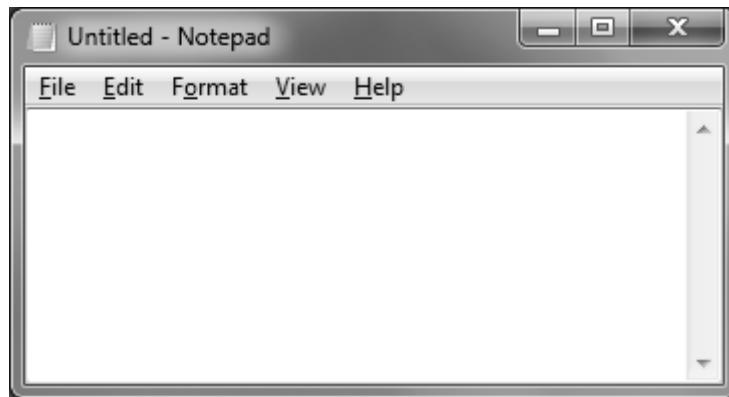
```
app["Untitled - Notepad"].menu_select("Help->About Notepad")
```

DEMO

DEMO

```
from pywinauto.application import Application
```

```
app = Application().start("notepad.exe")
```

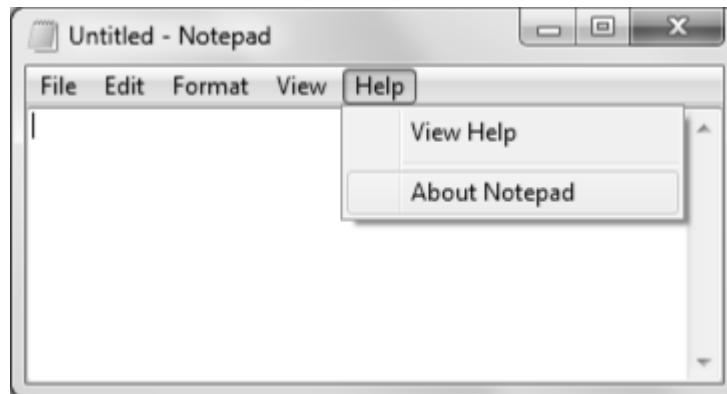


DEMO

```
from pywinauto.application import Application
```

```
app = Application().start("notepad.exe")
```

```
app.UntitledNotepad.menu_select(  
    "Help->About Notepad")
```



DEMO

```
from pywinauto.application import Application
```

```
app = Application().start("notepad.exe")
```

```
app.UntitledNotepad.menu_select(
```

```
    "Help->About Notepad")
```

```
app>AboutNotepad.OK.click()
```



DEMO

```
from pywinauto.application import Application
```

```
app = Application().start("notepad.exe")
```

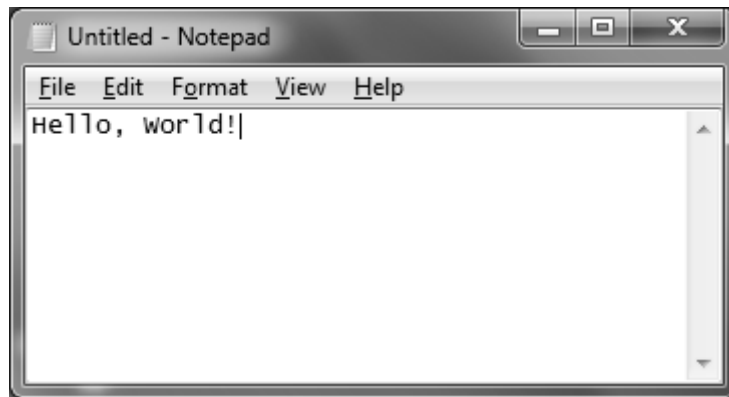
```
app.UntitledNotepad.menu_select(
```

```
    "Help->About Notepad")
```

```
app.AboutNotepad.OK.click()
```

```
app.UntitledNotepad.Edit.type_keys(
```

```
    "Hello, World!", with_spaces=True)
```



DEMO

```
from pywinauto.application import Application
```

```
app = Application().start("notepad.exe")
```

```
app.UntitledNotepad.menu_select(
```

```
    "Help->About Notepad")
```

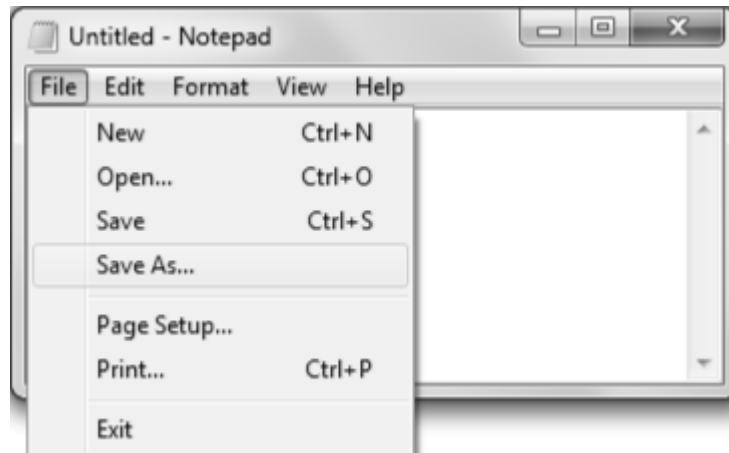
```
app.AboutNotepad.OK.click()
```

```
app.UntitledNotepad.Edit.type_keys(
```

```
    "Hello, World!", with_spaces=True)
```

```
app.UntitledNotepad.menu_select(
```

```
    "File->SaveAs")
```



DEMO

```
from pywinauto.application import Application
```

```
app = Application().start("notepad.exe")
```

```
app.UntitledNotepad.menu_select(
```

```
    "Help->About Notepad")
```

```
app.AboutNotepad.OK.click()
```

```
app.UntitledNotepad.Edit.type_keys(
```

```
    "Hello, World!", with_spaces=True)
```

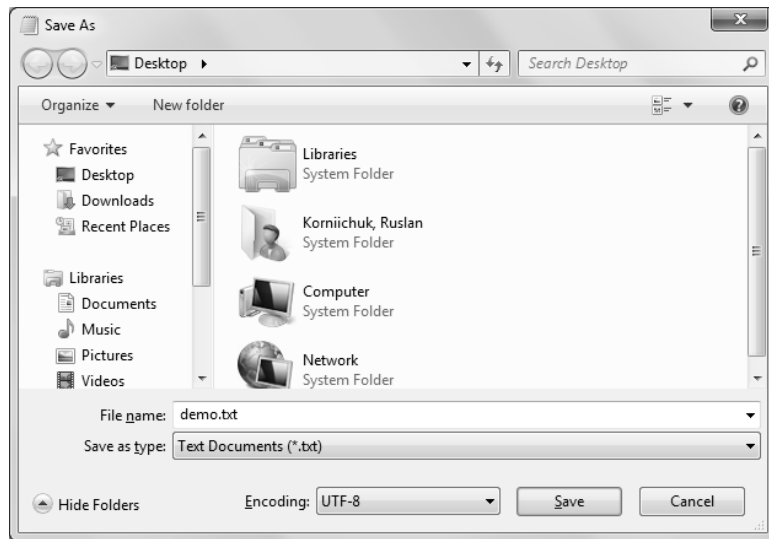
```
app.UntitledNotepad.menu_select(
```

```
    "File->SaveAs")
```

```
app.SaveAs.Edit1.set_text("demo.txt")
```

```
app.SaveAs.ComboBox3.select("UTF-8")
```

```
app.SaveAs.Save.click()
```



DEMO

```
from pywinauto.application import Application
```

```
app = Application().start("notepad.exe")
```

```
app.UntitledNotepad.menu_select(
```

```
    "Help->About Notepad")
```

```
app.AboutNotepad.OK.click()
```

```
app.UntitledNotepad.Edit.type_keys(
```

```
    "Hello, World!", with_spaces=True)
```

```
app.UntitledNotepad.menu_select(
```

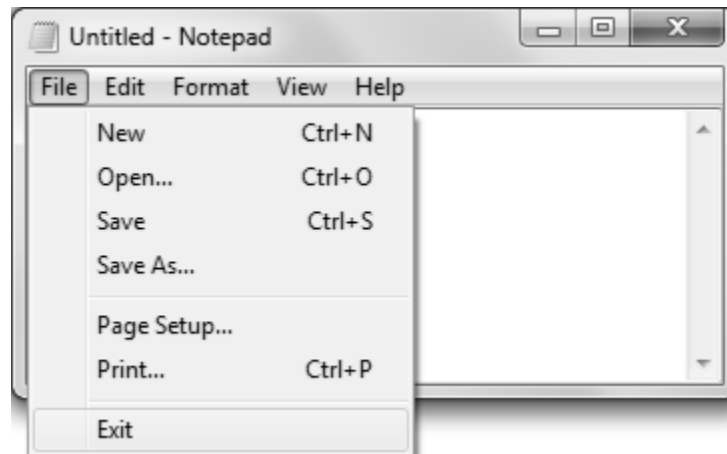
```
    "File->SaveAs")
```

```
app.SaveAs.Edit1.set_text("demo.txt")
```

```
app.SaveAs.ComboBox3.select("UTF-8")
```

```
app.SaveAs.Save.click()
```

```
app.UntitledNotepad.menu_select("File->Exit")
```



DEMO

```
from pywinauto.application import Application

app = Application().start("notepad.exe")

app.UntitledNotepad.menu_select("Help->About Notepad")
app.AboutNotepad.OK.click()

app.UntitledNotepad.Edit.type_keys("Hello, World!", with_spaces=True)

app.UntitledNotepad.menu_select("File->SaveAs")
app.SaveAs.Edit1.set_text("demo.txt")
app.SaveAs.ComboBox3.select("UTF-8")
app.SaveAs.Save.click()

app.UntitledNotepad.menu_select("File->Exit")
```

WE WANT MORE!

Pywinauto docs: <https://goo.gl/R5dkBx>

Pywinauto GitHub: <https://goo.gl/nMphVp>

Windows GUI inspect tools: <https://goo.gl/RGXyC2>

Pywinauto code generator: <https://goo.gl/LkeScr>