

Using Python to read/write/manipulate Excel documents and objects

1. Download the xlwings Python library

Free version with BSD 3-clause license:

<https://docs.xlwings.org/en/stable/installation.html#installation>

This version comes pre-installed with Anaconda

There is a PRO version that is ~\$1500/year/developer:

<https://docs.xlwings.org/en/stable/pro.html>

2. Import the xlwings library at the top of your Python source code file

```
import xlwings as xw
```

3. Launch an Excel instance within your Python run-time

```
appl = xw.App()
```

4. Open an Excel workbook, where path and filename are specific to your file

```
myBook = xw.Book("path/filename")
```

5. Access a sheet in your workbook, where sheet_name is specific to your file

```
mySheet = myBook.sheets['sheet_name']
```

6. Access a range in your worksheet that is the first 10 rows and 7 columns. myRange is then a two dimensional list

```
myRange = mySheet.range('A1:G10').value
```

7. More details can be found at the xlwings syntax overview page

https://docs.xlwings.org/en/stable/syntax_overview.html

8. More info on Lists, 2D Lists, and numpy can be found at the xlwings data structures tutorial page

<https://docs.xlwings.org/en/stable/datastructures.html>

9. To close a file

```
myBook.close()
```

10. To save a file

```
myBook.save()
```

11. To kill the Excel instance

```
appl.kill()
```