

What Python in Excel loads before you write any code

Python packages work a lot like Excel add-ins, adding tools that plain Python doesn't have. Python in Excel loads a starting lineup of them for you in every workbook.

WHAT YOU'LL SEE UNDER FORMULAS > INITIALIZATION

The starting lineup (you can change these)

`import numpy as np`

Data analysis

`import pandas as pd`

Data analysis

`import matplotlib.pyplot as plt`

Data visualization

`import statsmodels as sm`

Statistics

`import seaborn as sns`

Data visualization

Behind-the-scenes plumbing (leave these in)

`import excel`

Connects Python to your cells

`import warnings`

`warnings.simplefilter('ignore')`

Hides warning messages

`excel.set_xl_scalar_conversion(excel.convert_to_scalar)`

`excel.set_xl_array_conversion(excel.convert_to_dataframe)`

Plenty more are installed

These five are just the ones loaded for you. Many more, like scikit-learn for machine learning, come installed but switched off, kind of like the Analysis ToolPak. To turn one on, add an `import` line.

What the plumbing does

The rest of the script lets Python and Excel talk to each other. It's why `xl()` brings in a single cell as a value and a range as a pandas DataFrame, which is basically a table. Some of it might look random, but I'd leave it alone.

You can change the lineup

As of October 2025, you can edit this script yourself. Add the packages and helper functions you use all the time, and they'll be ready to go whenever you open that workbook. If something breaks, Reset to default puts everything back.