

Lecture 23 - Integrating Excel and Python (special Topic)

Outline

I. Visual Basic for Applications

II. XLWings

I. Visual Basic for Applications

* Task in Excel $\rightarrow$ Macro $\rightarrow$ automatic programming
Repetable $\downarrow$

V.B.A.

* Directly write VBA code in Excel

- Visual Basic (Full prog language)
- VBA recs is language of macros
- write custom functions $\rightarrow$ Very powerful!

trapezoidal rule

$$I = \frac{\Delta x}{2} (f_0 + 2f_1 + 2f_2 + \dots + 2f_{n-2} + f_{n-1})$$

II XLWings

* VBA $\rightarrow$ programming in Excel

* use python to talk to Excel $\rightarrow$ XLWings (module)

$\rightarrow$ only for win / mac $\therefore$ no Linux