

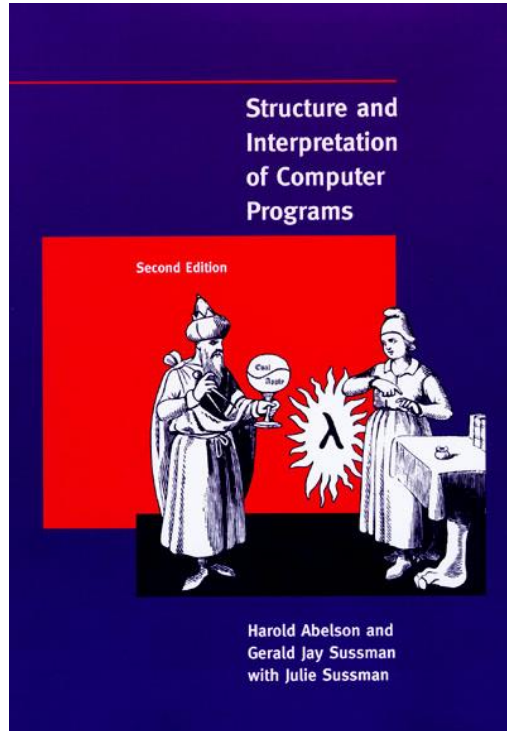
Python For Data science

Speaker: James Chiang

課程內容

- 寫程式是在寫甚麼
- Pandas and Numpy: Dataframe的處理與應用
- Matplotlib:資料視覺化
- Scikit-learn:機器學習

寫程式是在寫甚麼？



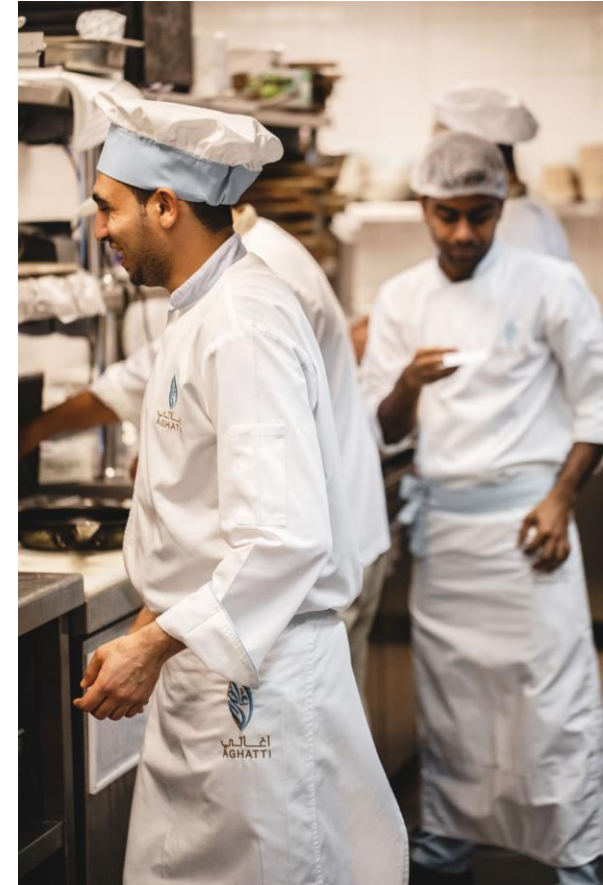
“Computational processes are abstract beings that inhabit computers. As they evolve, **processes** manipulate other abstract things called **data**. The evolution of a process is directed by a pattern of rules called a **program**. People create programs to direct processes. In effect, we conjure the spirits of the computer with our spells.”

— **Harold Abelson, SICP**

寫程式是在寫甚麼？



- Data : Ingredient
- Function: Chef
- Program : Recipes



寫程式是在寫甚麼？

所以當我們說要用Python來分析資料



其實是要



更準確的說是要



Python四寶

DATA

Clean

Transform

Visualize

Machine
Learning

INSIGHT

