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08 May 2025

基礎 Python 程式設計練習

— Session 10 —

<https://meet.google.com/wpx-yabb-tka>

進來的人請跟我說一聲

有人進來我們就開始

Please talk to me, when you
come in.

When you come in, we start the
session.

- Date/Time: 08 May 2025
- Google Meet: <https://meet.google.com/wpx-yabb-tka>
- Language: English, or Chinese, or Japanese
- Anyone can join this activity.
- This activity is organised in conjunction with the course “Doing Astrophysics using Python”. If you take the course “Doing Astrophysics using Python” and you would like to study basic Python programming, you are highly encouraged to join this activity.
- Activity web page: <https://s3b.astro.ncu.edu.tw/ipyper/>



<https://s3b.astro.ncu.edu.tw/ipyper/>

Some notes for you

- Ask a question to me at any time, if you have any difficulty.
- When you finish writing your code, tell me about it.
- Show me your source code, if you have an error for your code and cannot find a way to fix it.
- Tell me if you want me to provide a sample code for you.
- Be active, then you gain more.

- 如果想要問問題，請跟我說。什麼時候都可以。
- 你的程式寫完的時候，請跟我說一聲。
- 如果你不確定你自己寫的程式寫得好不好，請給我看你寫的原始碼。我跟你說我的意見。
- 如果你想要看我的寫法，請跟我說。我寫給你看。
- 比較主動一點，你的收穫比較多。

Downloading the data file

- Visit the following web page, and download the data file and ReadMe file.
 - » “Milky Way molecular clouds from 12CO”
 - <https://cdsarc.cds.unistra.fr/viz-bin/cat/J/ApJ/834/57>

Downloading the data file

Milky Way molecular clouds from ^{12}CO : J/ApJ/834/57

Access to VizieR, FTP, ReadMe, TAP, Xmatch, Download notebook

Authors : Miville-Deschenes M.-A., Murray N., Lee E.J.

VizieR DOI : 10.26093/cds/vizier.18340057 Cite
Bibcode : 2017ApJ...834...57M (ADS)

UAT : Molecular clouds, CO line emission, Galaxy planes, Milky Way Galaxy, Interstellar medium

Observation (OC)

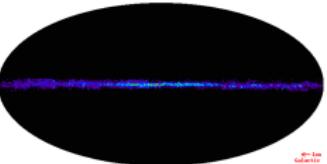
Physical properties of molecular clouds for the entire Milky Way disk. (2017)
Go to the original article (10.3847/1538-4357/834/1/57)

Keywords : Galaxy general; ISM: clouds; ISM: general; ISM: kinematics and dynamics; methods: data analysis; turbulence

Abstract: This study presents a catalog of 8107 molecular clouds that covers the entire Galactic plane and includes 98% of the ^{12}CO emission observed within $b \pm 5^\circ$. The catalog was produced using a hierarchical cluster identification method applied to the result of a Gaussian decomposition of the Dame+ (2001ApJ...547..792D) data. The total H_2 mass in the catalog is $1.2 \times 10^9 \text{M}_{\odot}$, in agreement with previous estimates. We find that 30% of the sight lines intersect only a single cloud, with another 25% intersecting only two clouds. The most probable cloud size is $R \sim 30\text{pc}$. We find that $M(\text{proto})R^{2.2} \sim 0.2^{\circ}$, with no correlation between the cloud surface density, (Σ) , and R . In contrast with the general idea, we find a rather large range of ... (more)

American Astronomical Society policies

Inserted into VizieR : 12-Jun-2017
Last modification : 05-Jun-2019



<https://cdsarc.cds.unistra.fr/viz-bin/cat/J/ApJ/834/57>

- Make your own Python script to open the data file “table1.dat.gz”, extract galactic longitude (GLON), galactic latitude (GLAT), distance flag (INF), near kinematic distance (Dnear), and far kinematic distance (Dfar) for each molecular cloud in the catalogue.

- Make your own Python script to open the data file “table1.dat.gz”, extract galactic longitude (GLON), galactic latitude (GLAT), distance flag (INF), near kinematic distance (Dnear), and far kinematic distance (Dfar) for each molecular cloud in the catalogue, check the distance flag and find more likely distance (Dnear or Dfar).

- Make your own Python script to open the data file "table1.dat.gz", extract galactic longitude (GLON), galactic latitude (GLAT), distance flag (INF), near kinematic distance (Dnear), and far kinematic distance (Dfar) for each molecular cloud in the catalogue, check the distance flag and find more likely distance (Dnear or Dfar), calculate galactocentric coordinate (x_{gal} , y_{gal} , z_{gal}).
 - » Assume 8.34 kpc for the distance of the Sun from the Galactic centre.
 - » Assume 25 pc for the distance of the Sun from the Galactic mid-plane.
 - » For the calculation of galactocentric coordinates, read the Section 2.4.1 "Physical Properties" of the paper "A UNIFORM CATALOG OF MOLECULAR CLOUDS IN THE MILKY WAY".
 - <https://iopscience.iop.org/article/10.3847/0004-637X/822/1/52>

- Make your own Python script to open the data file "table1.dat.gz", extract galactic longitude (GLON), galactic latitude (GLAT), distance flag (INF), near kinematic distance (Dnear), and far kinematic distance (Dfar) for each molecular cloud in the catalogue, check the distance flag and find more likely distance (Dnear or Dfar), calculate galactocentric coordinate (x_{gal} , y_{gal} , z_{gal}), and then visualise locations of molecular clouds on (x_{gal} , y_{gal}) plane using Matplotlib.
 - » Assume 8.34 kpc for the distance of the Sun from the Galactic centre.
 - » Assume 25 pc for the distance of the Sun from the Galactic mid-plane.
 - » For the calculation of galactocentric coordinates, read the Section 2.4.1 "Physical Properties" of the paper "A UNIFORM CATALOG OF MOLECULAR CLOUDS IN THE MILKY WAY".
 - <https://iopscience.iop.org/article/10.3847/0004-637X/822/1/52>

- We will have next meeting on 15 May 2025 .
 - » Google Meet: <https://meet.google.com/wpx-yabb-tka>
- We start the activity at 20:00.

"The Python Tutorial"

The screenshot shows a web browser displaying the Python Tutorial documentation. The URL in the address bar is <https://docs.python.org/3/tutorial/>. The page title is "The Python Tutorial". The left sidebar contains navigation links: "Previous topic" (Changelog), "Next topic" (1. Whetting Your Appetite), and "This Page" (Report a Bug, Show Source). The main content area starts with a brief introduction: "Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms." It then discusses the availability of the interpreter and standard library, and introduces the tutorial's purpose: "This tutorial introduces the reader informally to the basic concepts and features of the Python language and system. It helps to have a Python interpreter handy for hands-on experience, but all examples are self-contained, so the tutorial can be read off-line as well." Finally, it provides links to further resources: "The Python Standard Library", "The Python Language Reference", "Extending and Embedding the Python Interpreter", and "Python/C API Reference Manual".

<https://docs.python.org/3/tutorial/>

"The Python Tutorial"

The screenshot shows a browser window displaying the Python Tutorial. On the left, there's a sidebar with links: 'Previous topic' (pointing to 'Changelog'), 'Next topic' (pointing to '1. Whetting Your Appetite'), and 'This Page' (with 'Report a Bug' and 'Show Source' options). The main content area shows a hierarchical table of contents:

- [6.1.2. The module Search Path](#)
- [6.1.3. "Compiled" Python files](#)
- [6.2. Standard Modules](#)
- [6.3. The `dir\(\)` Function](#)
- [6.4. Packages](#)
 - [6.4.1. Importing * From a Package](#)
 - [6.4.2. Intra-package References](#)
 - [6.4.3. Packages in Multiple Directories](#)
- [7. Input and Output](#)
 - [7.1. Fancier Output Formatting](#)
 - [7.1.1. Formatted String Literals](#)
 - [7.1.2. The `String format\(\)` Method](#)
 - [7.1.3. Manual String Formatting](#)
 - [7.1.4. Old string formatting](#)
 - [7.2. Reading and Writing Files](#)
 - [7.2.1. Methods of File Objects](#)
 - [7.2.2. Saving structured data with `json`](#)
- [8. Errors and Exceptions](#)
 - [8.1. Syntax Errors](#)
 - [8.2. Exceptions](#)
 - [8.3. Handling Exceptions](#)
 - [8.4. Raising Exceptions](#)
 - [8.5. Exception Chaining](#)
 - [8.6. User-defined Exceptions](#)
 - [8.7. Defining Clean-up Actions](#)
 - [8.8. Predefined Clean-up Actions](#)

<https://docs.python.org/3/tutorial/>

"The Python Tutorial"

The screenshot shows a web browser displaying the Python tutorial. The main content area is titled "7.2. Reading and Writing Files". It discusses the `open()` function, which returns a `file object`. It's commonly used with two positional arguments and one keyword argument: `open(filename, mode, encoding=None)`. A code example is shown in a code block:

```
>>> f = open('workfile', 'w', encoding='utf-8')
```

The first argument is a string containing the filename. The second argument is another string containing a few characters describing the way in which the file will be used. `mode` can be `'r'` when the file will only be read, `'w'` for only writing (an existing file with the same name will be erased), and `'a'` opens the file for appending; any data written to the file is automatically added to the end. `'r+'` opens the file for both reading and writing. The `mode` argument is optional; `'r'` will be assumed if it's omitted.

Normally, files are opened in *text mode*, that means, you read and write strings from and to the file, which are encoded in a specific `encoding`. If `encoding` is not specified, the default is platform dependent (see [open\(\)](#)). Because UTF-8 is the modern de-facto standard, `encoding="utf-8"` is recommended unless you know that you need to use a different encoding. Appending a `'b'` to the mode opens the file in *binary mode*. Binary mode data is read and written as `bytes` objects. You can not specify `encoding` when opening file in binary mode.

In text mode, the default when reading is to convert platform-specific line endings (`\n` on Unix, `\r\n` on Windows) to just `\n`. When writing in text mode, the default is to convert occurrences of `\n` back to platform-specific line endings. This behind-the-scenes modification to file data is fine for text files, but will corrupt binary data like that in JPEG or EXE files. Be very careful to use binary mode when reading and writing such files.

It is good practice to use the `with` keyword when dealing with file objects. The advantage is that the file is properly closed after its suite finishes, even if an exception is raised at some point. Using `with` is also much shorter

<https://docs.python.org/3/tutorial/inputoutput.html#reading-and-writing-files>

"The Python Tutorial"

- To learn about the “for” statement, read the section 4.2 “for Statements”.
 - » <https://docs.python.org/3/tutorial/controlflow.html#for-statements>

"The Python Tutorial"

The screenshot shows a web browser displaying the Python Tutorial. The URL in the address bar is <https://docs.python.org/3/tutorial/>. The page content is the table of contents for Chapter 3, "An Informal Introduction to Python". The table of contents includes:

- 2.2.1. Source Code Encoding
- 3. An Informal Introduction to Python
 - 3.1. Using Python as a Calculator
 - 3.1.1. Numbers
 - 3.1.2. Text
 - 3.1.3. Lists
 - 3.2. First Steps Towards Programming
- 4. More Control Flow Tools
 - 4.1. if Statements
 - 4.2. for Statements
 - 4.3. The range() Function
 - 4.4. break and continue Statements
 - 4.5. else Clauses on Loops
 - 4.6. pass Statements
 - 4.7. match Statements
 - 4.8. Defining Functions
 - 4.9. More on Defining Functions
 - 4.9.1. Default Argument Values
 - 4.9.2. Keyword Arguments
 - 4.9.3. Special parameters
 - 4.9.3.1. Positional-or-Keyword Arguments
 - 4.9.3.2. Positional-Only Parameters
 - 4.9.3.3. Keyword-Only Arguments
 - 4.9.3.4. Function Examples
 - 4.9.3.5. Recap

<https://docs.python.org/3/tutorial/>

"The Python Tutorial"

The screenshot shows a web browser displaying the Python tutorial at <https://docs.python.org/3/tutorial/controlflow.html#>. The page title is "4.2. for Statements". The left sidebar contains a "Table of Contents" with several sections under "More Control Flow Tools", including "if Statements", "for Statements", "range()", "break and continue Statements", "else Clauses on Loops", "pass Statements", "match Statements", "Defining Functions", "More on Defining Functions", "Default Argument Values", "Keyword Arguments", "Special parameters", "Positional-or-Keyword Arguments", "Positional-Only Parameters", "Keyword-Only Arguments", and "Recap". The main content area starts with a paragraph about the `for` statement's behavior compared to C or Pascal. It then shows a code example:

```
>>> # Measure some strings:  
>>> words = ['cat', 'window', 'defenestrate']  
>>> for w in words:  
...     print(w, len(w))  
...  
cat 3  
window 6  
defenestrate 12
```

Following this, there is a note about modifying collections while iterating over them. Below that, two code examples demonstrate strategies for creating new collections based on existing ones:

```
# Create a sample collection  
users = {'Hans': 'active', 'Éléonore': 'inactive', '景太郎': 'active'}  
  
# Strategy: Iterate over a copy  
for user, status in users.copy().items():  
    if status == 'inactive':  
        del users[user]  
  
# Strategy: Create a new collection  
active_users = {}  
for user, status in users.items():  
    if status == 'active':  
        active_users[user] = status
```

<https://docs.python.org/3/tutorial/controlflow.html#for-statements>

"The Python Tutorial"

- To learn about the “while” statement, read the section 3.2 “First Steps Towards Programming”.
 - » <https://docs.python.org/3/tutorial/introduction.html#first-steps-towards-programming>

"The Python Tutorial"

The screenshot shows a web browser displaying the Python Tutorial. The left sidebar contains links for "Previous topic" (Whetting Your Appetite), "Changelog", "Next topic" (1. Whetting Your Appetite), and "This Page" (Report a Bug, Show Source). The main content area shows a hierarchical table of contents:

- 1. Whetting Your Appetite
- 2. Using the Python Interpreter
 - 2.1. Invoking the Interpreter
 - 2.1.1. Argument Passing
 - 2.1.2. Interactive Mode
 - 2.2. The Interpreter and Its Environment
 - 2.2.1. Source Code Encoding
- 3. An Informal Introduction to Python
 - 3.1. Using Python as a Calculator
 - 3.1.1. Numbers
 - 3.1.2. Text
 - 3.1.3. Lists
 - 3.2. First Steps Towards Programming
- 4. More Control Flow Tools
 - 4.1. if Statements
 - 4.2. for Statements
 - 4.3. The range() Function
 - 4.4. break and continue Statements
 - 4.5. else Clauses on Loops
 - 4.6. pass Statements
 - 4.7. match Statements
 - 4.8. Defining Functions
 - 4.9. More on Defining Functions
 - 4.9.1. Default Argument Values
 - 4.9.2. Keyword Arguments

<https://docs.python.org/3/tutorial/>

"The Python Tutorial"

The screenshot shows a web browser displaying the Python tutorial at <https://docs.python.org/3/tutorial/introduction.html#first-steps-towards-programming>. The page title is "3.2. First Steps Towards Programming". On the left, there's a "Table of Contents" sidebar with sections like "3. An Informal Introduction to Python" and "3.2. First Steps Towards Programming". The main content area shows a code example for generating a Fibonacci series:

```
>>> # Fibonacci series:  
>>> # the sum of two elements defines the next  
>>> a, b = 0, 1  
>>> while a < 10:  
...     print(a)  
...     a, b = b, a+b  
...  
0  
1  
1  
2  
3  
5  
8
```

Below the code, a note says: "This example introduces several new features." followed by two bullet points explaining Python-specific concepts like multiple assignment and the while loop.

<https://docs.python.org/3/tutorial/introduction.html#first-steps-towards-programming>

"The Python Tutorial"

- To learn about the “if” statement, read the section 4.1 “if Statements”.
 - » [https://docs.python.org/3/tutorial/controlflow.html# if-statements](https://docs.python.org/3/tutorial/controlflow.html#if-statements)

"The Python Tutorial"

The screenshot shows a web browser window with the title "The Python Tutorial - Python 3.13.0 documentation" and the URL "https://docs.python.org/3/tutorial/index.html". The page content is a hierarchical table of contents for the Python tutorial. On the left, there's a sidebar with links to "Previous topic", "Changelog", "Next topic", "1. Whetting Your Appetite", and "This Page" (with "Report a Bug" and "Show Source" options). The main content area lists chapters and sub-chapters:

- 2.2.1. Source Code Encoding
- 3. An Informal Introduction to Python
 - 3.1. Using Python as a Calculator
 - 3.1.1. Numbers
 - 3.1.2. Text
 - 3.1.3. Lists
 - 3.2. First Steps Towards Programming
- 4. More Control Flow Tools
 - 4.1. `if` Statements
 - 4.2. `for` Statements
 - 4.3. `The range()` Function
 - 4.4. `break` and `continue` Statements
 - 4.5. `else` Clauses on Loops
 - 4.6. `pass` Statements
 - 4.7. `match` Statements
 - 4.8. Defining Functions
 - 4.9. More on Defining Functions
 - 4.9.1. Default Argument Values
 - 4.9.2. Keyword Arguments
 - 4.9.3. Special parameters
 - 4.9.3.1. Positional-or-Keyword Arguments
 - 4.9.3.2. Positional-Only Parameters
 - 4.9.3.3. Keyword-Only Arguments
 - 4.9.3.4. Function Examples

<https://docs.python.org/3/tutorial/>

"The Python Tutorial"

The screenshot shows a browser window displaying the Python 3.13.0 documentation for "More Control Flow Tools". The current section is "4.1. if Statements".

Table of Contents:

- 4. More Control Flow Tools
 - 4.1. if Statements
 - 4.2. for Statements
 - 4.3. The `range()` Function
 - 4.4. break and `continue` Statements
 - 4.5. else Clauses on Loops
 - 4.6. pass Statements
 - 4.7. match Statements
 - 4.8. Defining Functions
 - 4.9. More on Defining Functions
 - 4.9.1. Default Argument Values
 - 4.9.2. Keyword Arguments
 - 4.9.3. Special parameters
 - 4.9.3.1. Positional-or-Keyword Arguments
 - 4.9.3.2. Positional-Only Parameters
 - 4.9.3.3. Keyword-Only Arguments
 - 4.9.3.4. Function

4.1. if Statements

Perhaps the most well-known statement type is the `if` statement. For example:

```
>>> x = int(input("Please enter an integer: "))
Please enter an integer: 42
>>> if x < 0:
...     x = 0
...     print('Negative changed to zero')
... elif x == 0:
...     print('Zero')
... elif x == 1:
...     print('Single')
... else:
...     print('More')
...
More
```

There can be zero or more `elif` parts, and the `else` part is optional. The keyword 'elif' is short for 'else if', and is useful to avoid excessive indentation. An `if ... elif ... elif ...` sequence is a substitute for the `switch` or `case` statements found in other languages.

If you're comparing the same value to several constants, or checking for specific types or attributes, you may also find the `match` statement useful. For more details see [match Statements](#).

4.2. for Statements

The `for` statement in Python differs a bit from what you may be used to in C or Pascal. Rather than always iter-

<https://docs.python.org/3/tutorial/>

"The Python Tutorial"

- To learn about the way to define a function, read the sections 4.8 “Defining Functions” and 4.9 “More on Defining Functions”.
 - » <https://docs.python.org/3/tutorial/controlflow.html#define-functions>
 - » <https://docs.python.org/3/tutorial/controlflow.html#more-on-defining-functions>

"The Python Tutorial"

The screenshot shows a web browser window displaying the Python Tutorial index page at <https://docs.python.org/3/tutorial/index.html>. The page has a sidebar on the left with links to "Previous topic" (Changelog), "Next topic" (1. Whetting Your Appetite), and "This Page" (Report a Bug, Show Source). The main content area lists several sections of the tutorial:

- 2.2.1. Source Code Encoding
- 3. An Informal Introduction to Python
 - 3.1. Using Python as a Calculator
 - 3.1.1. Numbers
 - 3.1.2. Text
 - 3.1.3. Lists
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- 4. More Control Flow Tools
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 - 4.9.3.2. Positional-Only Parameters
 - 4.9.3.3. Keyword-Only Arguments
 - 4.9.3.4. Function Examples
 - 4.9.5. Recursion

<https://docs.python.org/3/tutorial/>

"The Python Tutorial"

The screenshot shows a web browser window displaying the Python tutorial. The title bar says "4. More Control Flow Tools". The URL in the address bar is <https://docs.python.org/3/tutorial/controlflow.html#defining-functions>. The main content area has a section titled "4.8. Defining Functions". Below it, a text block says "We can create a function that writes the Fibonacci series to an arbitrary boundary:" followed by a code block:

```
>>> def fib(n):      # write Fibonacci series less than n
...     """Print a Fibonacci series less than n."""
...     a, b = 0, 1
...     while a < n:
...         print(a, end=' ')
...         a, b = b, a+b
...     print()
...
>>> # Now call the function we just defined:
>>> fib(2000)
0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 618 987 1597
```

The text below the code explains the `def` keyword: "The keyword `def` introduces a function *definition*. It must be followed by the function name and the parenthesized list of formal parameters. The statements that form the body of the function start at the next line, and must be indented." It also notes that the first statement of the function body can be a string literal, which is a *docstring*.

The text then discusses the execution of a function: "The *execution* of a function introduces a new symbol table used for the local variables of the function. More precisely, all variable assignments in a function store the value in the local symbol table; whereas variable references first look in the local symbol table, then in the local symbol tables of enclosing functions, then in the global symbol table, and finally in the table of built-in names. Thus, global variables and variables of enclosing functions

<https://docs.python.org/3/tutorial/>

"The Python Tutorial"

The screenshot shows a web browser window with the title "The Python Tutorial - Python 3.12.1 documentation" at the top. The URL in the address bar is <https://docs.python.org/3/tutorial/index.html>. The page content is a hierarchical table of contents for the Python tutorial. On the left, there is a sidebar with links to "Previous topic" (Changelog), "Next topic" (1. Whetting Your Appetite), and "This Page" (Report a Bug, Show Source). The main content area lists sections: "3. An Informal Introduction to Python" (with "3.1. Using Python as a Calculator" expanded to show "3.1.1. Numbers", "3.1.2. Text", and "3.1.3. Lists"), "4. More Control Flow Tools" (with "4.1. if Statements", "4.2. for Statements", "4.3. The range() Function", "4.4. break and continue Statements", "4.5. else Clauses on Loops", "4.6. pass Statements", "4.7. match Statements", "4.8. Defining Functions", and "4.9. More on Defining Functions" expanded to show "4.9.1. Default Argument Values", "4.9.2. Keyword Arguments", "4.9.3. Special parameters" (which further expands to "4.9.3.1. Positional-or-Keyword Arguments", "4.9.3.2. Positional-Only Parameters", "4.9.3.3. Keyword-Only Arguments", "4.9.3.4. Function Examples", and "4.9.3.5. Recursion"). A search bar at the bottom left contains the word "function". At the bottom right, there are search filters for "Highlight All", "Match Case", "Match Objectives", and "Whole Words".

<https://docs.python.org/3/tutorial/>

"The Python Tutorial"

The screenshot shows a web browser window displaying the Python tutorial at <https://docs.python.org/3/tutorial/controlflow.html#more-on-defining-functions>. The page is titled "4.9. More on Defining Functions". On the left, there is a sidebar with a "Table of Contents" for chapter 4, which includes sections like "4.1. if Statements", "4.2. for Statements", "4.3. The range() Function", and "4.9. More on Defining Functions". The main content area starts with a heading "4.9. More on Defining Functions" and a paragraph explaining that functions can have variable numbers of arguments. It then focuses on default argument values, with a sub-section "4.9.1. Default Argument Values". Below this, it says that specifying a default value creates a function that can be called with fewer arguments. A code example is shown:

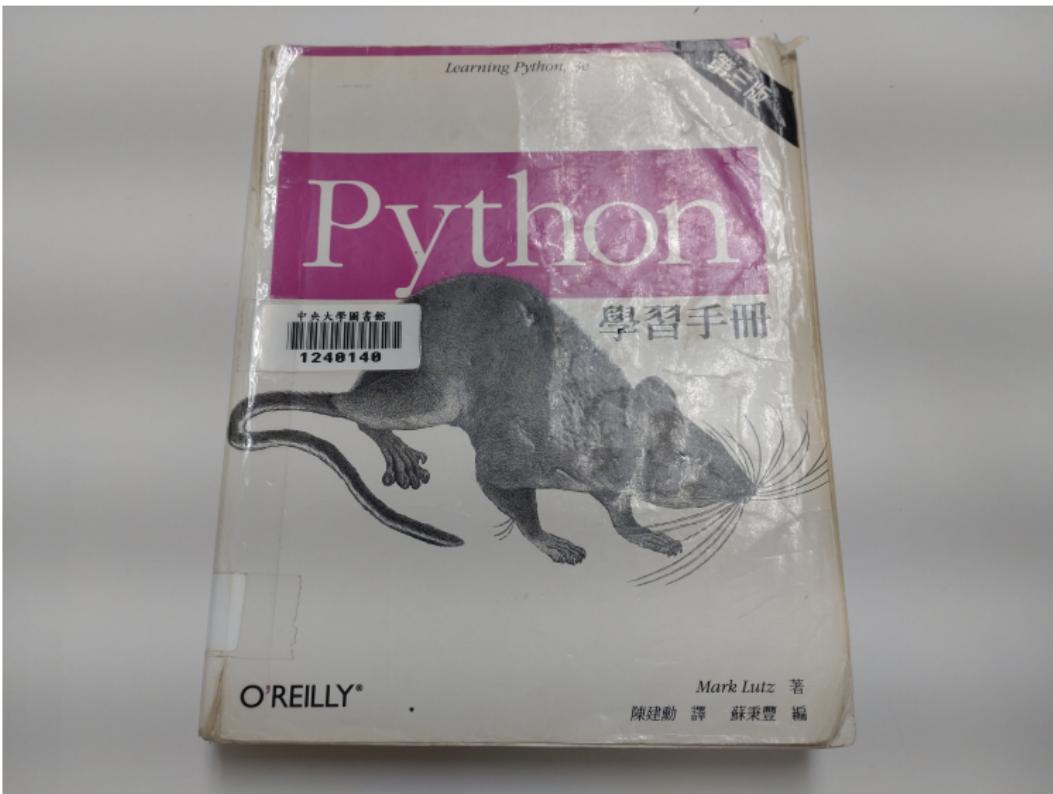
```
def ask_ok(prompt, retries=4, reminder='Please try again!'):
    while True:
        reply = input(prompt)
        if reply in {'y', 'ye', 'yes'}:
            return True
        if reply in {'n', 'no', 'nop', 'nope'}:
            return False
        retries = retries - 1
        if retries < 0:
            raise ValueError('invalid user response')
    print(reminder)
```

Below the code, it says the function can be called in several ways:

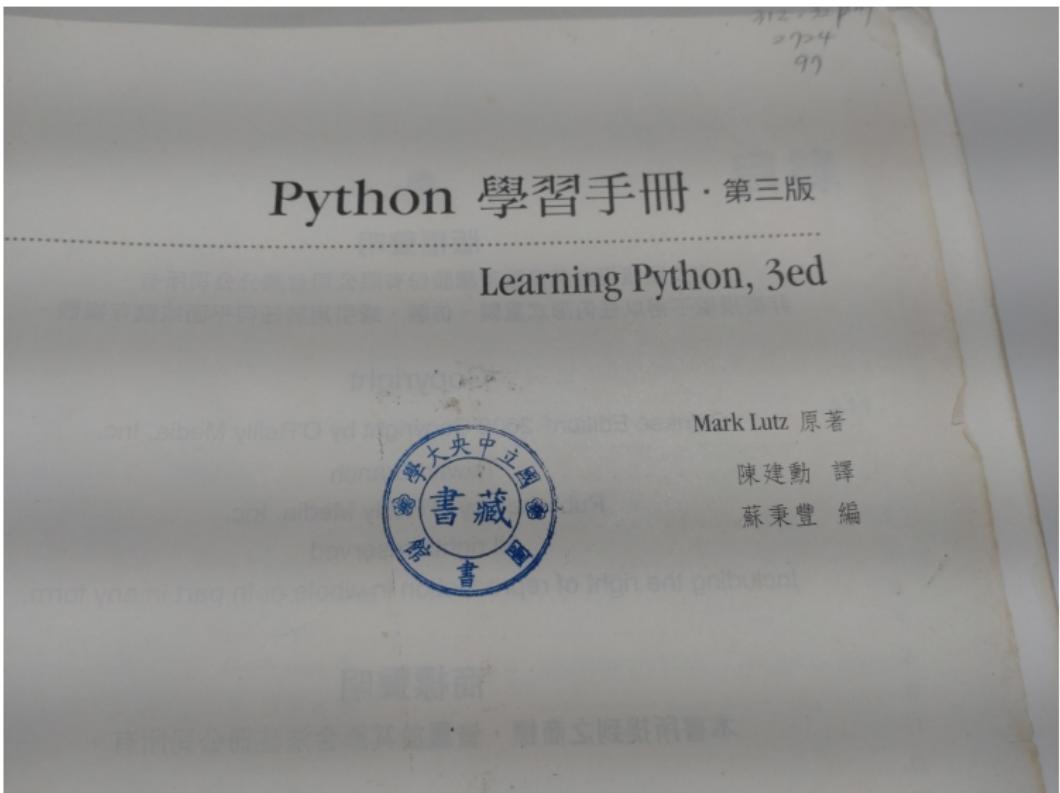
- giving only the mandatory argument: `ask_ok('Do you really want to quit?')`
- giving one of the optional arguments: `ask_ok('OK to overwrite the file?', 2)`
- or even giving all arguments: `ask_ok('OK to overwrite the file?', 2, 'Come on, only yes or no!')`

<https://docs.python.org/3/tutorial/>

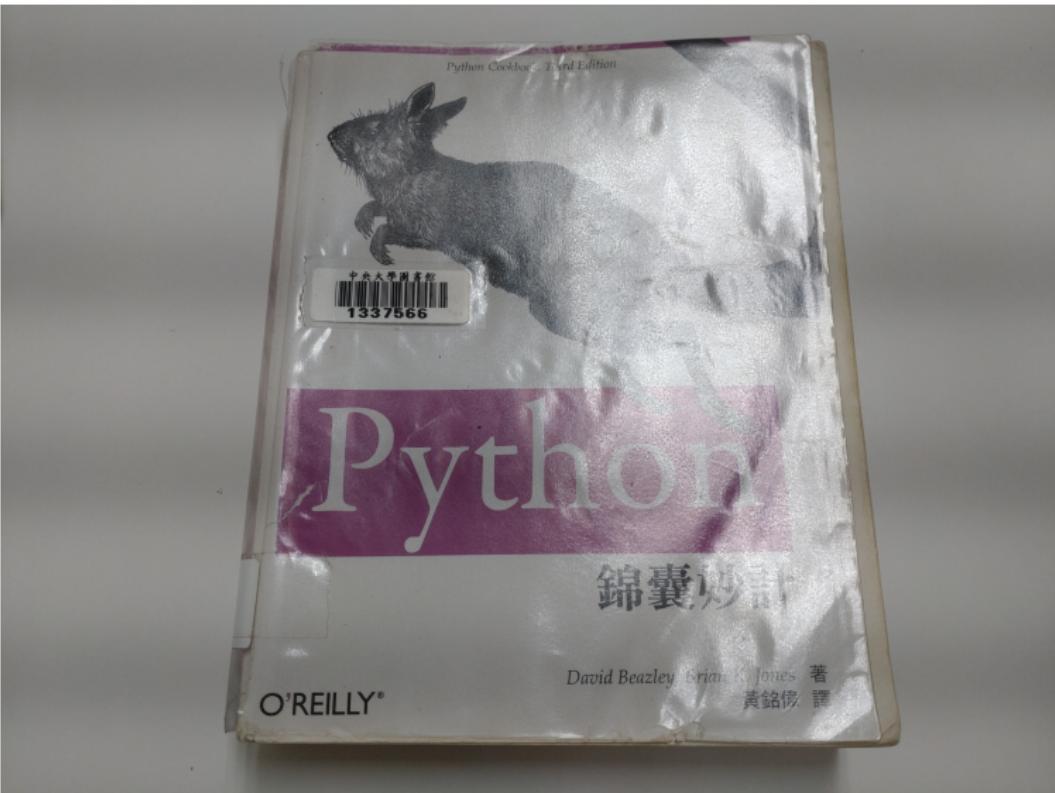
Recommended books



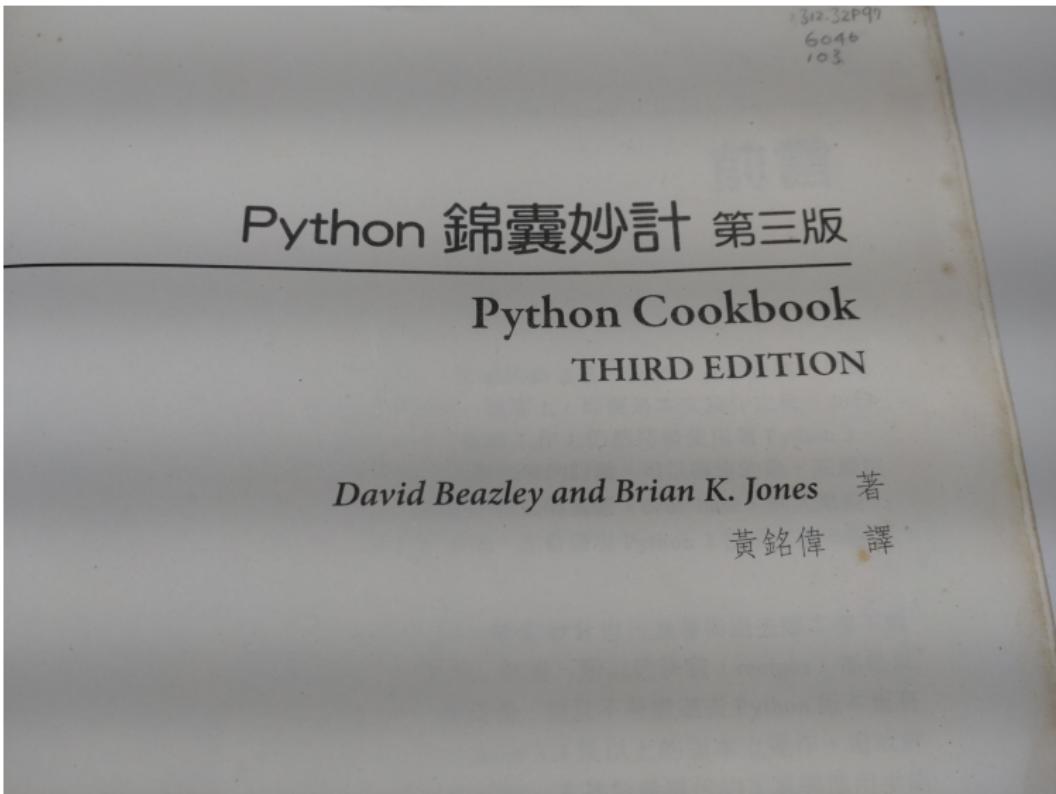
Recommended books



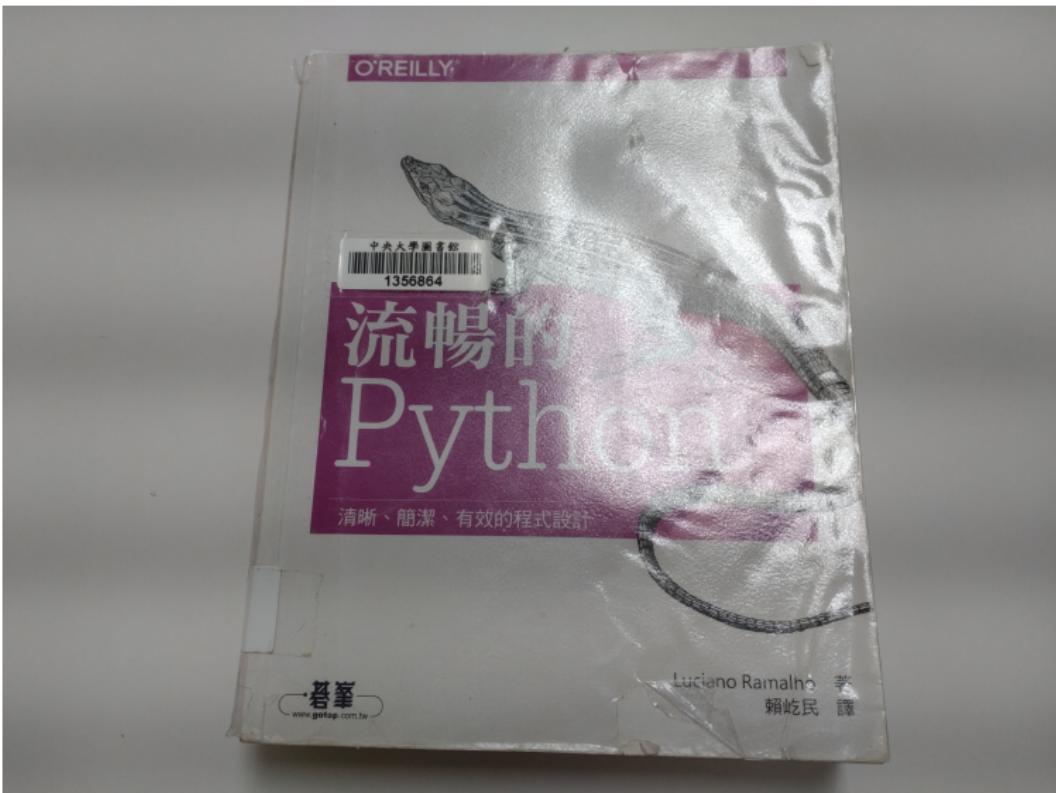
Recommended books



Recommended books



Recommended books



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Recommended books

