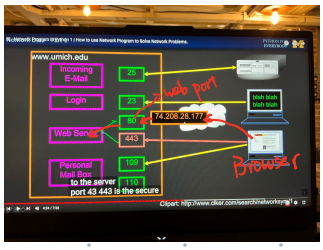
Python Programming — Network Architecture.

- Socket: an endpoint of a bidirectional inter-process communication flow across an IP-based computer network.

进行 computers 的媒介



80: web port: "Http"

- If you want connect to the Internet, you should "import" something first. Obviously, you should import "Socket"
- HTTP — Hypertext Transfer Protocol (超文本传输协议)

URL basic structure:

eg. http://www.dr-chuck.com/page1.htm

protocol (协议)	host (主机)	document (文档)
Http is using to require document from the web server.	This is the IP address of the host servers.	The specific documents in the web servers.

In conclusion, through this URL structure, you've connecting the "host" IP address by "protocol" http and request to browse the specific page "/page1.htm"

- request response cycle

web server [80]

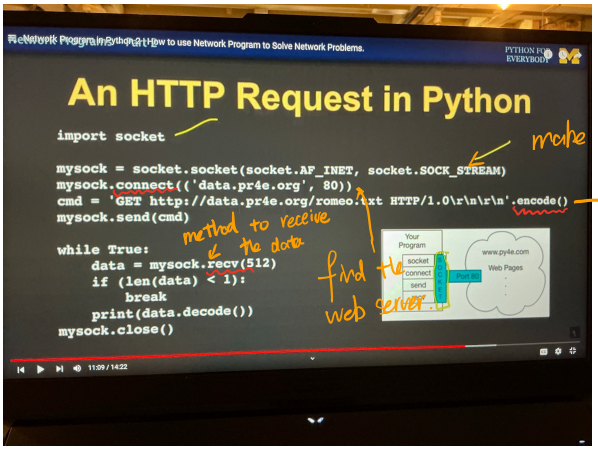
GET data ↑↓ show it to you.

First page → Browser Parse → Second page

click it

Software: telnet

- How we use these things in Python?



make a door way.

This code is making the request.

method to receive the data

find the web server

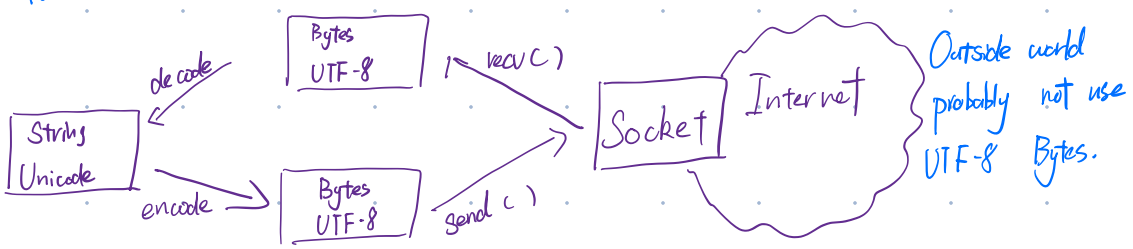
- There's a new function called "ord()" tells us the numeric value of a simple ASCII character

Like print(ord('H'))

⇒ 72

- UTF-8 is the solution that can switch all the code from different region into single sheet.

All the different characters can be analyzed by Unicode in Python and the function is "decode"

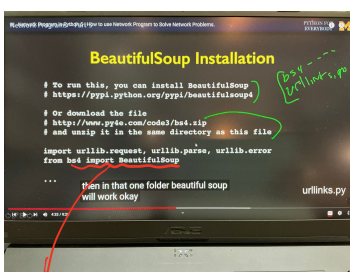


- Using urllib in Python (Way of getting data from web)

This function can switch website to likely a file.

import urllib.request, urllib.parse, urllib.error

- Easy way of searching data called BeautifulSoup from www.crummy.com



key step.