urllib.request

```
--urllib.request.urlretrieve(url, filename=None, reporthook=None, data=None)
下载东西, 命名为filename带格式
--urllib. request. Request (url, data=None, headers={})
data官方文档:
data must be a bytes object specifying additional data to send to the server, or None if no such data is needed.
Currently HTTP requests are the only ones that use data; the HTTP request will be a POST instead of a GET when the data parameter
is provided. data should be a buffer in the standard application/x-www-form-urlencoded format. The urllib.parse.urlencode()
function takes a mapping or sequence of 2-tuples and returns an ASCII string in this format. It should be encoded to bytes
before being used as the data parameter.
FE:
   data={}
   data['type']='AUTO'
   data['i']=words
   data['doctype']='json'
   data['xmlVersion']='1.8'
   data['keyfrom']='fanyi.web'
   data['ue']='UTF-8'
   data['action']='FY_BY_CLICKBUTTON'
   data['typoResult']='true'
   data=urllib.parse.urlencode(data).encode('utf-8')
headers官方文档:
headers should be a dictionary, and will be treated as if add_header() was called with each key and value as
arguments. This is often used to "spoof" the User-Agent header value, which is used by a browser to identify itself - some
HTTP servers only allow requests coming from common browsers as opposed to scripts. For example, Mozilla Firefox may identify
itself as "Mozilla/5.0 (X11; U; Linux i686) Gecko/20071127 Firefox/2.0.0.11", while urllib 's default user
agent string is "Python-urllib/2.6" (on Python 2.6).
FE:
head={}
head['User-Agent']='Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/45.0.2454.101
Safari/537.36'
或者:
FE:
import urllib.request
req = urllib.request.Request('http://www.example.com/')
req. add_header('Referer', 'http://www.python.org/')
# Customize the default User-Agent header value:
req.add_header('User-Agent', 'urllib-example/0.1 (Contact: . . .)')
--request. add header (key, value)
--request. set_proxy(host, type)
设置代理服务器
--urllib.request.urlopen(url,data=None[,timeout])
ur1可以是网址/Request对象
response=urllib.request.urlopen(request)
```

-- response. read()

解码网页代码,返回bytes-like 需要decode('utf-8')进行解码

DD.

读入在线图片地址进行保存时,文件也是'wb'二进制写入

```
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import urllib.request

response = urllib.request.urlopen('http://placekitten.com/g/500/600')

cat_img = response.read()

with open('cat_500_600.jpg', 'wb') as f:
    f.write(cat_img)
```

--urllib.request.ProxyHandler({'type':'ip:port'})

设置代理

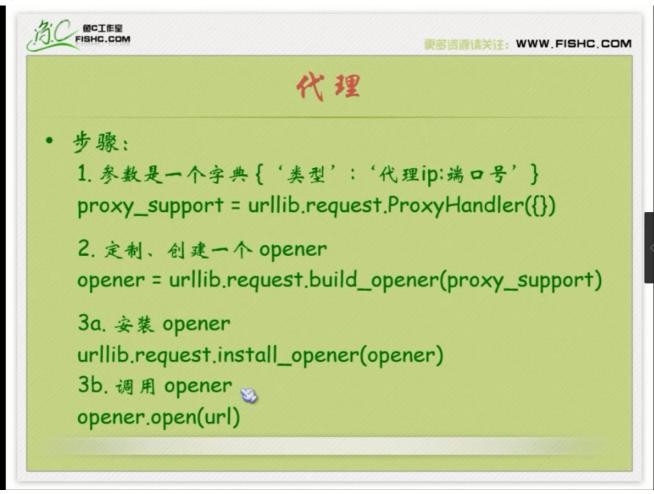
--urllib.request.build_opener(onesupport)

创建opener

--urllib. request. install_opener (oneopener)

安装opener

FE:



⁻⁻opener.open(url)

要是只是需要特殊情况使用,则使用这个方法,用urllib.request.set_proxy(ip, type)也行

之前的方法是对于所有的主程序适用