

Hello

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Outline

- Getting data from network
 - JSON, XML, (Property List)
 - HTTP Methods
 - CocoaPods
 - AFNetworking
 - Displaying data
- Git on objective-c

用什麼方法

做什麼

結果

HTTP
requests

拿到資料

JSON

XML

Parser

處理資料

NSDictionary

NSArray

iOS
APIs

呈現資料

UI
components



HTTP Methods

Method	Description
GET	Request to read a Web page
HEAD	Request to read a Web page's header
PUT	Request to store a Web page
POST	Append to a named resource (e.g., a Web page)
DELETE	Remove the Web page
TRACE	Echo the incoming request
CONNECT	Reserved for future use
OPTIONS	Query certain options

To make it simple, a quick view on <http://dcard.tw>

<http://www.w3.org/Protocols/rfc2616/rfc2616-sec9.html>

JSON and XML

簡單說就是
一種資料格式

JSON and XML

講複雜一點就是

一種資料格式

{“data”: “JSON”}

一個簡單的 **JSON** 範例

```
1  {  
2    "orderId": 12345,  
3    "shopperName": "John Smith",  
4    "shopperEmail": "johnsmith@example.com",  
5    "contents": [  
6      {  
7        "productID": 34,  
8        "productName": "SuperWidget",  
9        "quantity": 1  
10     },  
11     {  
12       "productID": 56,  
13       "productName": "WonderWidget",  
14       "quantity": 3  
15     }  
16   ],  
17   "orderCompleted": true  
18 }
```

<data>XML</data>

```
1  <object>
2    <property>
3      <key>orderId</key>
4      <number>12345</number>
5    </property>
6    <property>
7      <key>shopperName</key>
8      <string>John Smith</string>
9    </property>
10   <property>
11     <key>shopperEmail</key>
12     <string>johnsmith@example.com</string>
13   </property>
14   <property>
15     <key>contents</key>
16     <array>
17       <object>
18         <property>
19           <key>productId</key>
20           <number>34</number>
21         </property>
22         <property>
23           <key>productName</key>
24           <string>SuperWidget</string>
25         </property>
26         <property>
27           <key>quantity</key>
28           <number>1</number>
29         </property>
30       </object>
31       <object>
32         <property>
33           <key>productId</key>
34           <number>56</number>
35         </property>
36         <property>
37           <key>productName</key>
38           <string>WonderWidget</string>
39         </property>
40         <property>
41           <key>quantity</key>
42           <number>3</number>
43         </property>
44       </object>
45     </array>
46   </property>
47   <property>
48     <key>orderCompleted</key>
49     <boolean>true</boolean>
50   </property>
51 </object>
```


操作Data (Parser)

- Apple add JSON parser and serialised in iOS 5.
- XML parsing to Dictionary: **XMLDictionary**
<https://github.com/nicklockwood/XMLDictionary>

JSON

NSData comes from the request!!

OBJECTIVE-C

```
+ (id)JSONObjectWithData:(NSData *)data  
    options:(NSJSONReadingOptions)opt  
    error:(NSError **)error
```

https://developer.apple.com/library/mac/documentation/Foundation/Reference/NSJSONSerialization_Class/#!/apple_ref/occ/clm/NSJSONSerialization/JSONObjectWithData:options:error:

XML

```
+ (NSDictionary *)dictionaryWithXMLData:(NSData *)data;
```

<https://github.com/nicklockwood/XMLDictionary>

“Make everything as simple as possible,
but not simpler.”

–Albert Einstein

"盡可能簡化事情，但勿將事情本身視為簡單"

—愛因斯坦

CocoaPods

- CocoaPods is the **dependency manager** for Objective-C projects.

```
$ sudo gem install cocoapods
```

<http://cocoapods.org/>

Add a dependency

```
1 # Uncomment this line to define a global platform for your project
2 # platform :ios, '6.0'
3
4 source 'https://github.com/CocoaPods/Specs.git'
5
6 target 'example' do
7   pod 'AFNetworking'
8 end
9
10 target 'exampleTests' do
11
12 end
13
```

AFNetworking

- AFNetworking is a delightful networking library for iOS and Mac OS X.



github: <https://github.com/AFNetworking/AFNetworking>
more info: <http://nshipster.cn/afnetworking-2/>

.gitignore

- <https://github.com/github/gitignore>