

用Cocoa撰寫簡單Internet App

CocoaHeads Taipei Talk

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今天要講的事...

- ✦ 如何用Cocoa撰寫簡單的Internet App
- ✦ 使用ObjectiveFlickr中的OFHTTPRequest
- ✦ 瞭解Cocoa的delegate概念

或者換句話說...

- ✦ 什麼是用Cocoa寫的Internet App?
- ✦ 為什麼用ObjectiveFlickr?
- ✦ Delegate又是什麼?

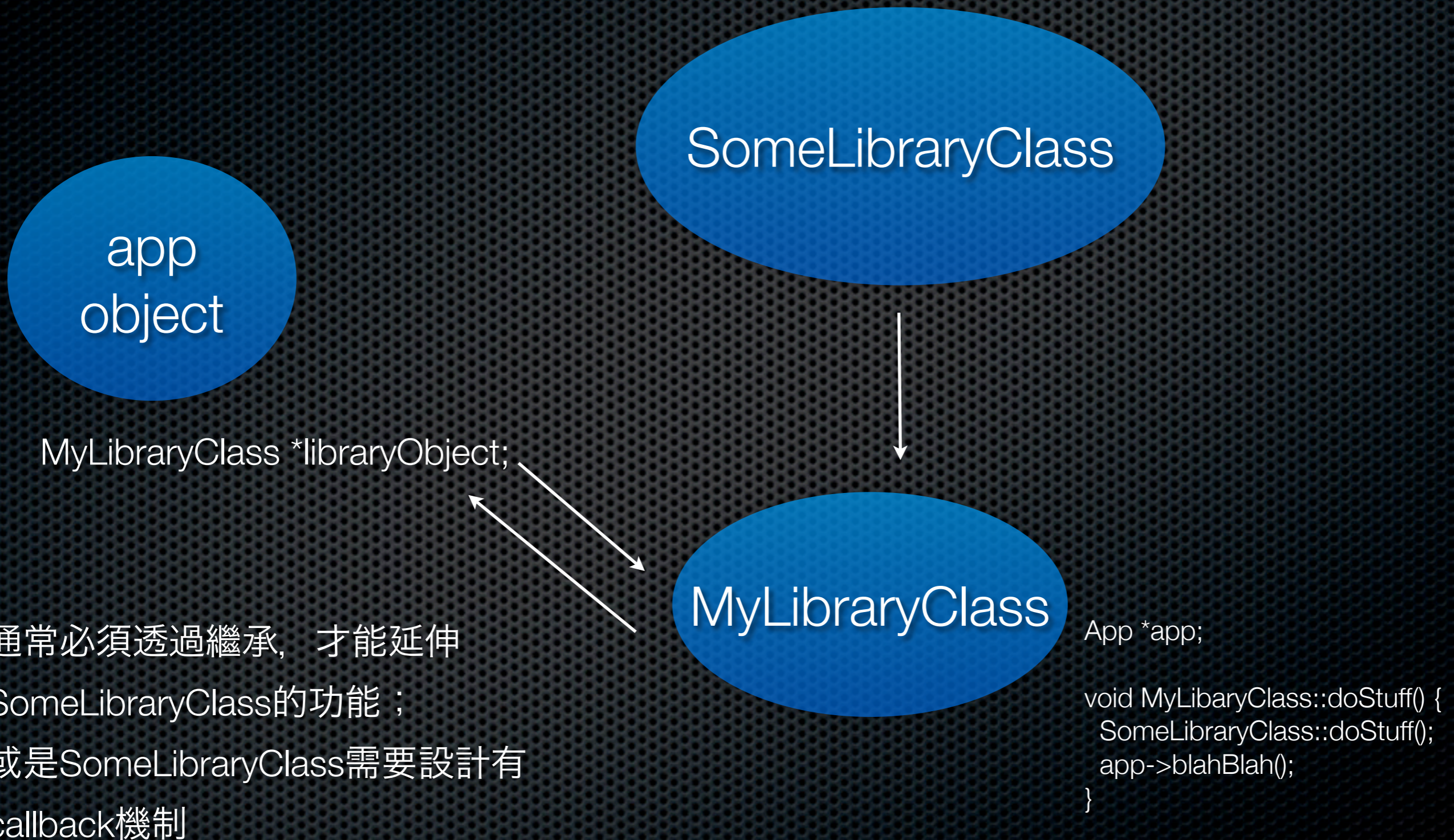
用Cocoa寫Internet App

- ✦ 網路時代“rich internet app”吃香
- ✦ Cocoa有一些簡單的URL存取功能
- ✦ -initWithContentsOfURL:
- ✦ NSURLConnection
- ✦ 或者是靠3rd party libraries

為什麼要用ObjectiveFlickr

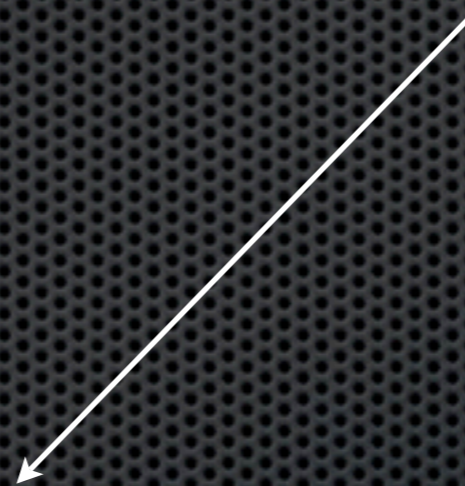
- 提供簡單的OFHTTPRequest, 輕鬆發送GET/POST request
- 使用delegate pattern, 將HTTP狀態回傳給delegate
- 符合GUI app的event-driven model
- 自賣自誇 *誤*

沒有delegate pattern的時候



```
SomeLibraryClass *_libraryObject;
```

```
[_libraryObject setDelegate:self];
```



透過delegate, 無須
再透過繼承

```
-(void) someDelegateMethod:(id)arg  
{  
    // ...  
}
```

AppClass可選擇性
implement要做的事

Cocoa裡面不斷用到delegate

NSTableView

NSWindow

NSApplication

WebView

...

「請務必全面鑽研之」

—宮本武藏《五輪書》

用OFHTTPRequest建立連線

- ✦ `_request = [OFHTTPRequest requestWithDelegate:self
timeoutInterval:10.0];`
- ✦ `[_request GET:@"http://google.com" userData:nil];`

五種可選擇性implement的 delegate methods

- - (void)HTTPRequest:(OFHTTPRequest*)request didCancel:(id)userinfo;
表示該request已遭到取消
- - (void)HTTPRequest:(OFHTTPRequest*)request didFetchData:(NSData*)data userinfo:
(id)userinfo;
表示該request已成功取回資料, 存於data中
- - (void)HTTPRequest:(OFHTTPRequest*)request didTimeout:(id)userinfo;
表示該request已經timeout
- - (void)HTTPRequest:(OFHTTPRequest*)request error:(NSError*)err userinfo:(id)userinfo;
表示該request發生錯誤, 錯誤代碼寫在NSError*中
- - (void)HTTPRequest:(OFHTTPRequest*)request progress:(size_t)receivedBytes expectedTotal:
(size_t)total userinfo:(id)userinfo;
表示該request正在傳送資料, 已接收回多少, 預期取回多少

簡單的Internet App...

- ✦ 來順便推銷一下Ruby on Rails
- ✦ To-Do List建立in 5 minutes
- ✦ Cocoa端讀取遠端server的to-do list顯示出來
- ✦ 我們將以此為例

<http://fancyapp.example.org/items.xml>

XML items list

<http://fancyapp.example.org/items>

HTML items list

XML item #1

Rails app

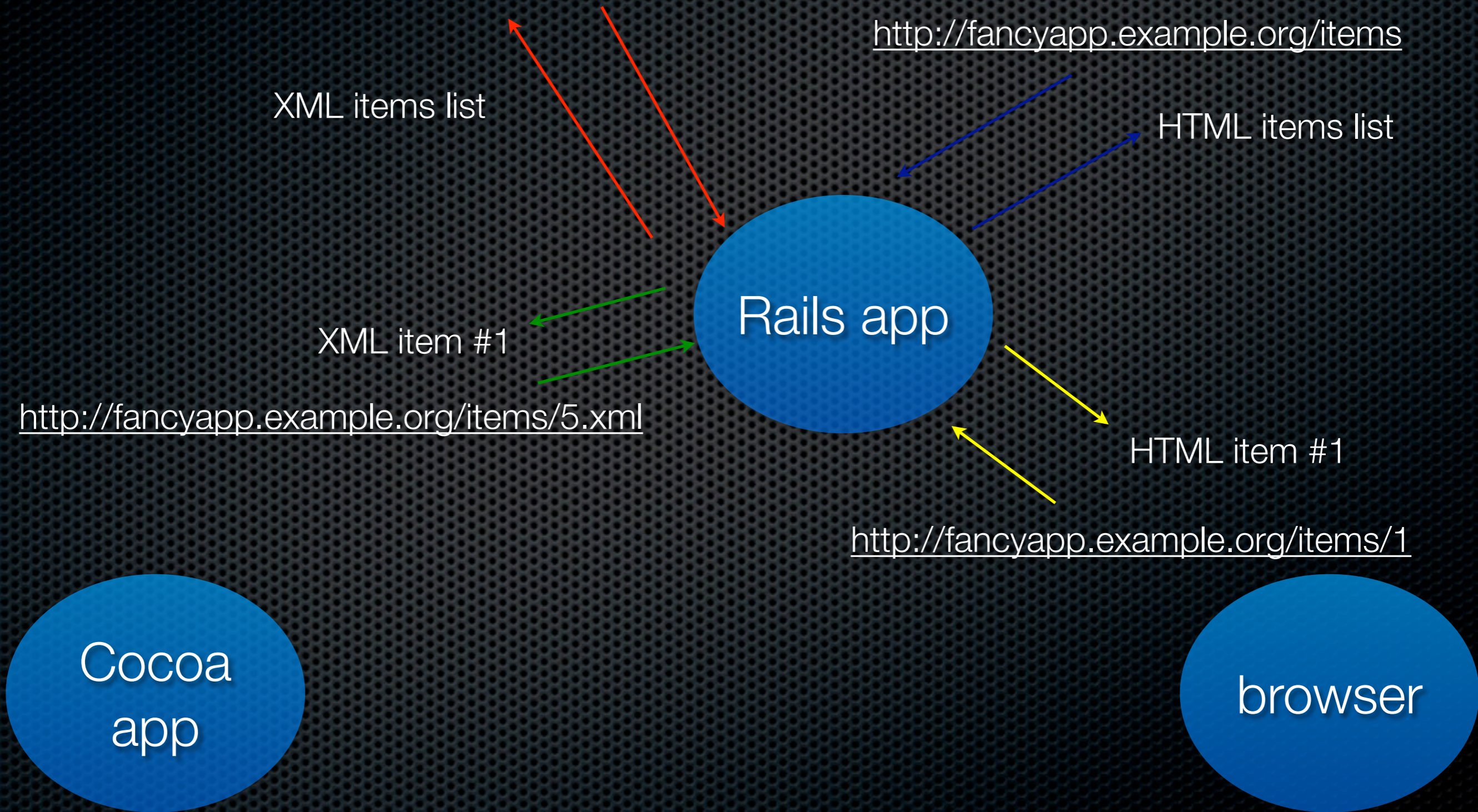
<http://fancyapp.example.org/items/5.xml>

HTML item #1

<http://fancyapp.example.org/items/1>

Cocoa
app

browser



User event



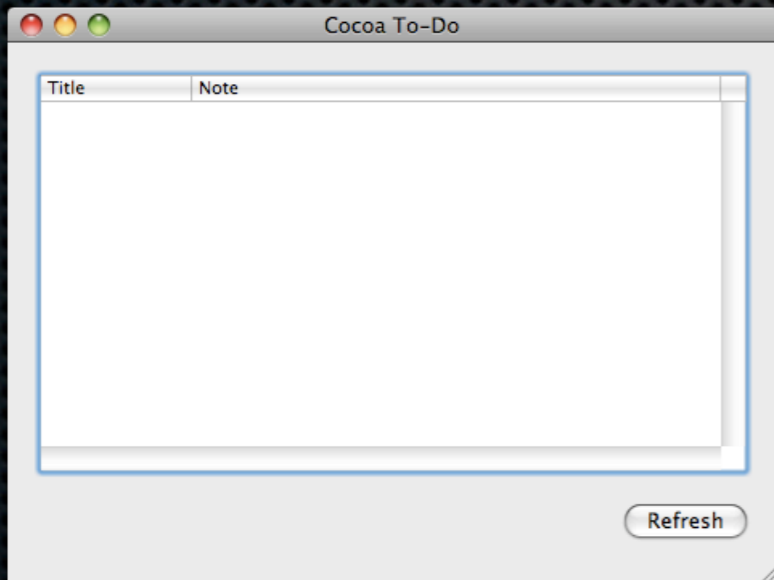
Cocoa App

HTTP request



Rails App

HTTP response
(XML payload)



投影片不多放, demo time!