iPhone App Dev

Lesson 8

Source

https://github.com/bryanttang/iOS-Class-2015-6.git

Contact

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Summary

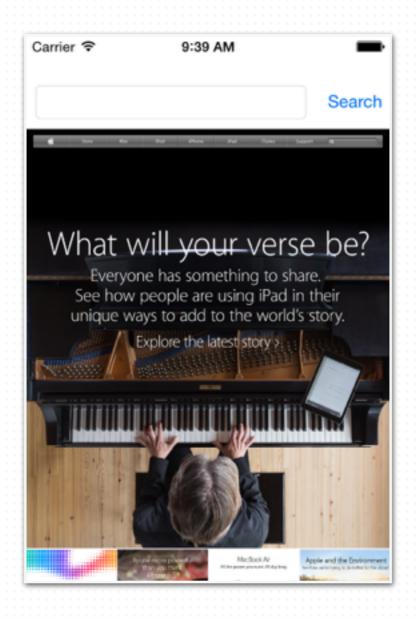
- MapKit (Review)
- Web view
- Concurrency Programming

Mapkit

- Homework
- Question?

Demo

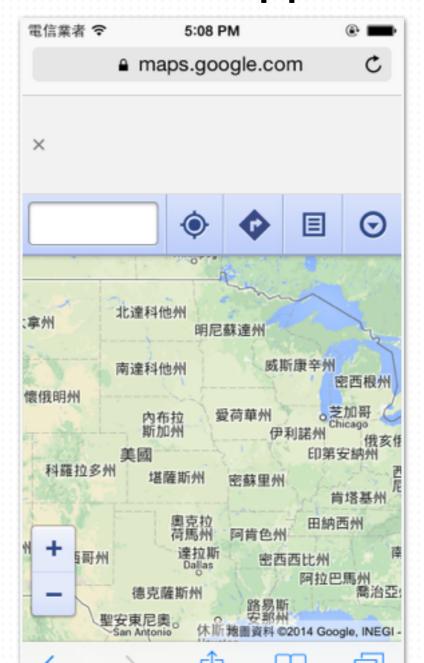
To show web content just like a browser



To show a page with static content



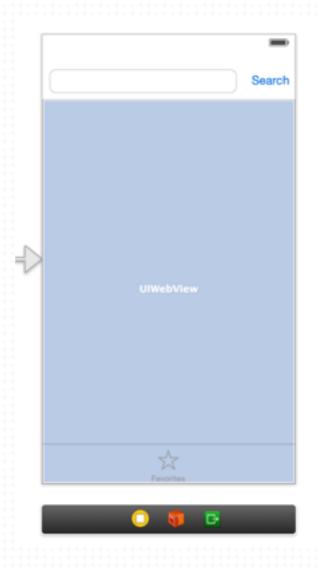
To develop as a web app



Open a web view in project

Drag a web view from tool bar

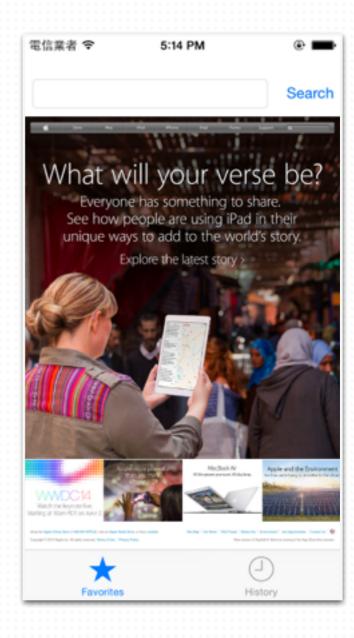




Load a website in web view

- create url string
- create request with the url
- load request in web view

```
NSURL *url = [NSURL URLWithString:@"http://www.apple.com"];
NSURLRequest *request = [NSURLRequest requestWithURL:url];
[_myWebView loadRequest:request];
[_myWebView setScalesPageToFit:YES]; //fit to page
```



- Load content by using NSString
 - create url string
 - Load url by using NSString

```
NSURL *url=[NSURL URLWithString:@"http://date.jsontest.com/"];
NSString *json_str = [NSString stringWithContentsOfURL:url
encoding:NSUTF8StringEncoding error:nil];
```

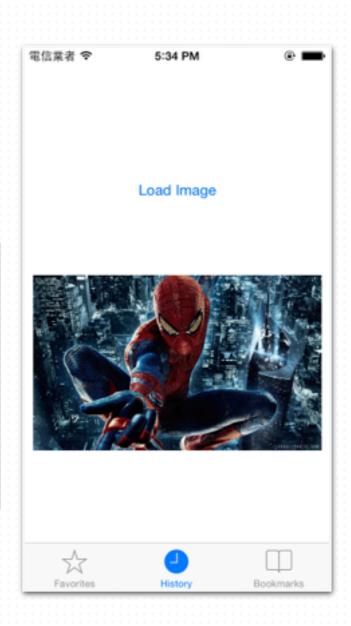


Load content by using NSString

- create url string
- Load url by using NSData
- Convert NSData to Ullmage

```
NSURL *url_image = [NSURL URLWithString:@"http://www.newyork-business.com/wp-content/uploads/2014/02/
amazing_spider_man_latest-1920x1200.jpg"];

NSData *image_data = [NSData dataWithContentsOfURL:url_image options:NSDataReadingUncached error:nil];
    _imageView.image = [UIImage imageWithData:image_data];
```

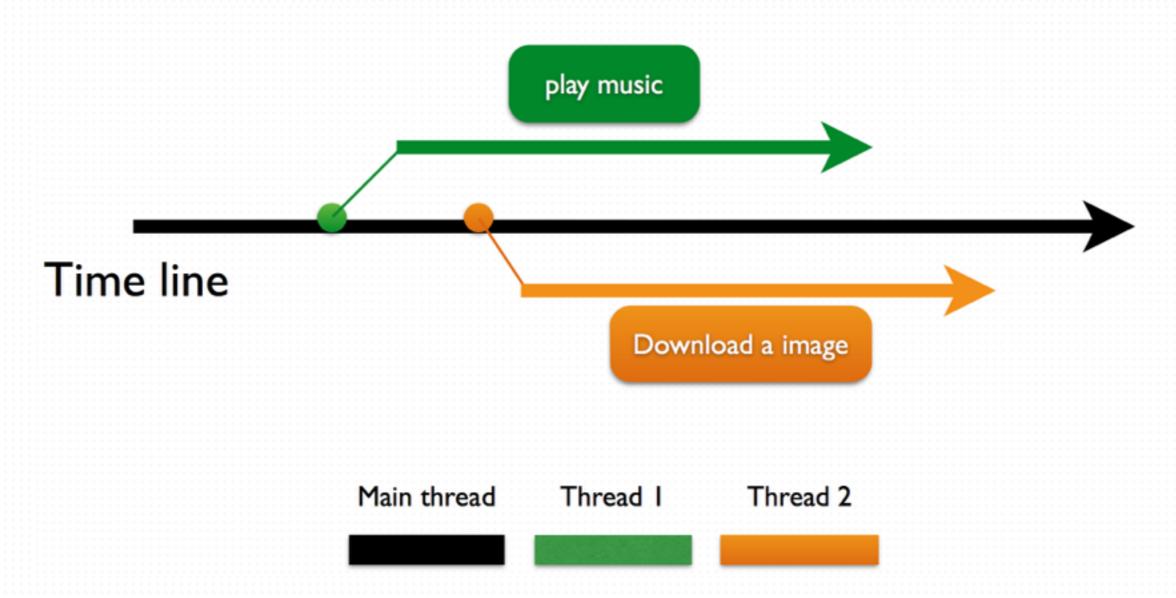


Demo

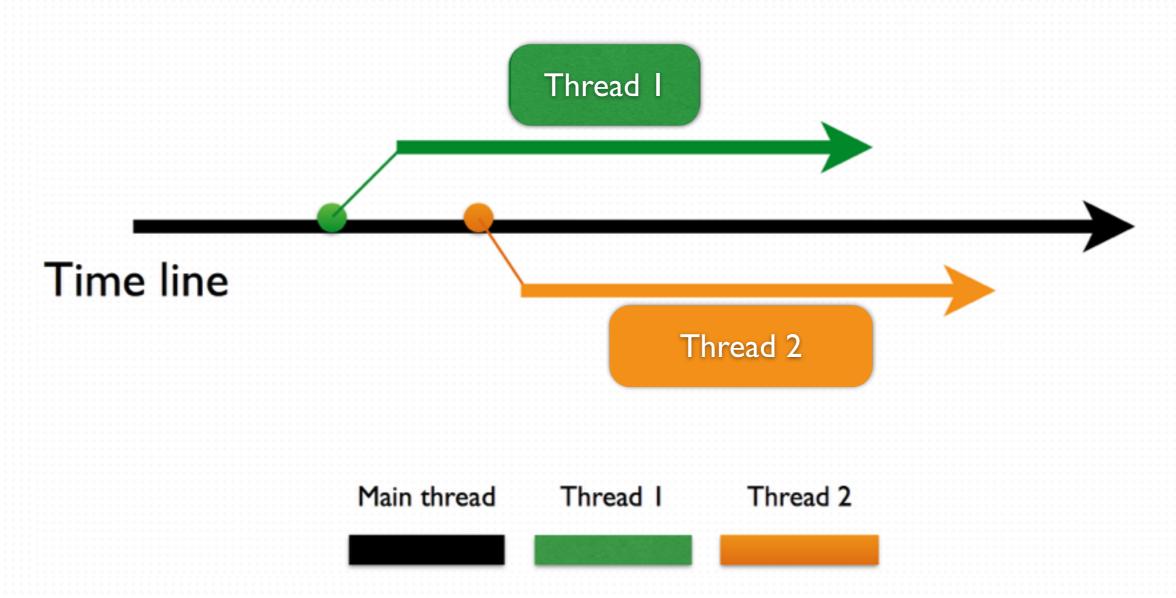
Two ways to implement

- Use thread
- Use Grand Central Dispatch (GCD)

Spawn a thread



Spawn a thread



Use NSThread class method

[NSThread detachNewThreadSelector:@selector(myThreadMainMethod:) toTarget:self withObject:nil];

Create NSThread Object

Use Grand Central Dispatch (GCD)



Dispatch queue

Two ways to implement

- √ Serial
- √ Concurrent
- √ Main dispatch queue

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- √ Serial
- √ Concurrent
- √ Main dispatch queue

Serial Queue

- ✓ Private dispatch queues
- ✓ Execute one task at a time
- √ In the order

Task I

Task 2

Task 3

Concurrent Queue

- √ Global dispatch queue
- ✓ Execute one or more tasks concurrently
- √ In the order

Task I
Task 2
Task 3

Use Serial queue

```
dispatch_queue_t processQueue = dispatch_queue_create("PROCESS_QUEUE", NULL);
dispatch_async(processQueue, ^{
//Do somethin
}
```

Use concurrent queue

```
dispatch_queue_t processQueue =
dispatch_get_global_queue(DISPATCH_QUEUE_PRIORITY_DEFAULT, 0);
dispatch_async(processQueue, ^{
//Do something
}
```

Use Main dispatch queue

```
dispatch_queue_t mainQueue = dispatch_get_main_queue("PROCESS_QUEUE", NULL);
dispatch_async(mainQueue, ^{
//Do somethin
}
```