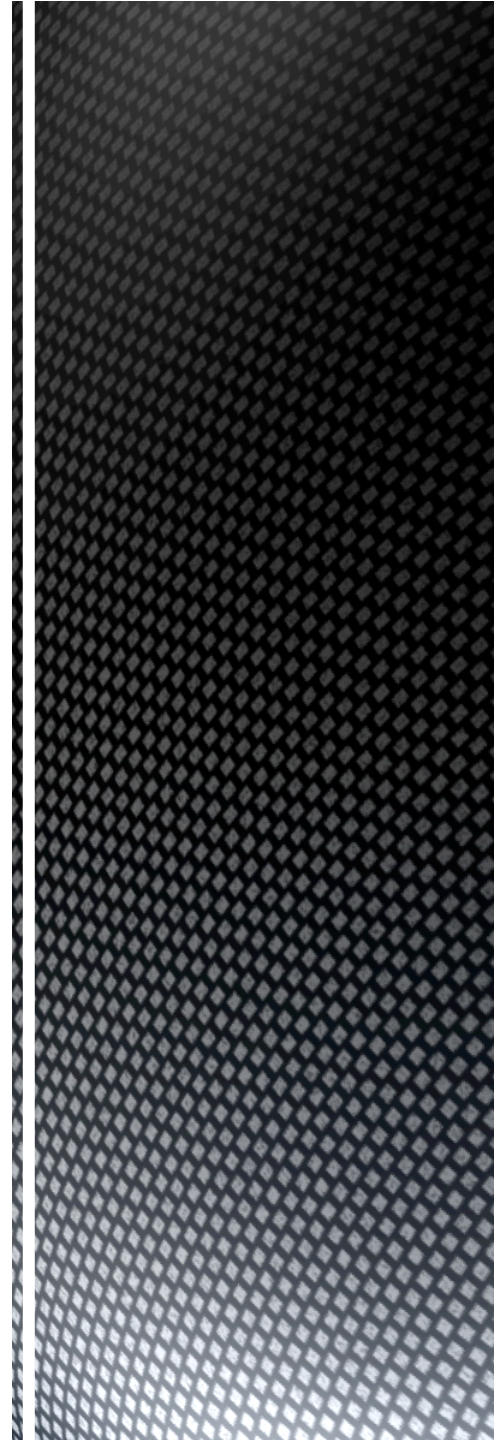


# 創新科技技術

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2011/11/11



- Introduction
- Syntax
  - Protocol
  - Class
  - Usage
  - Life cycle
- Importing library
- Sample

## Outline



## ■ IDE

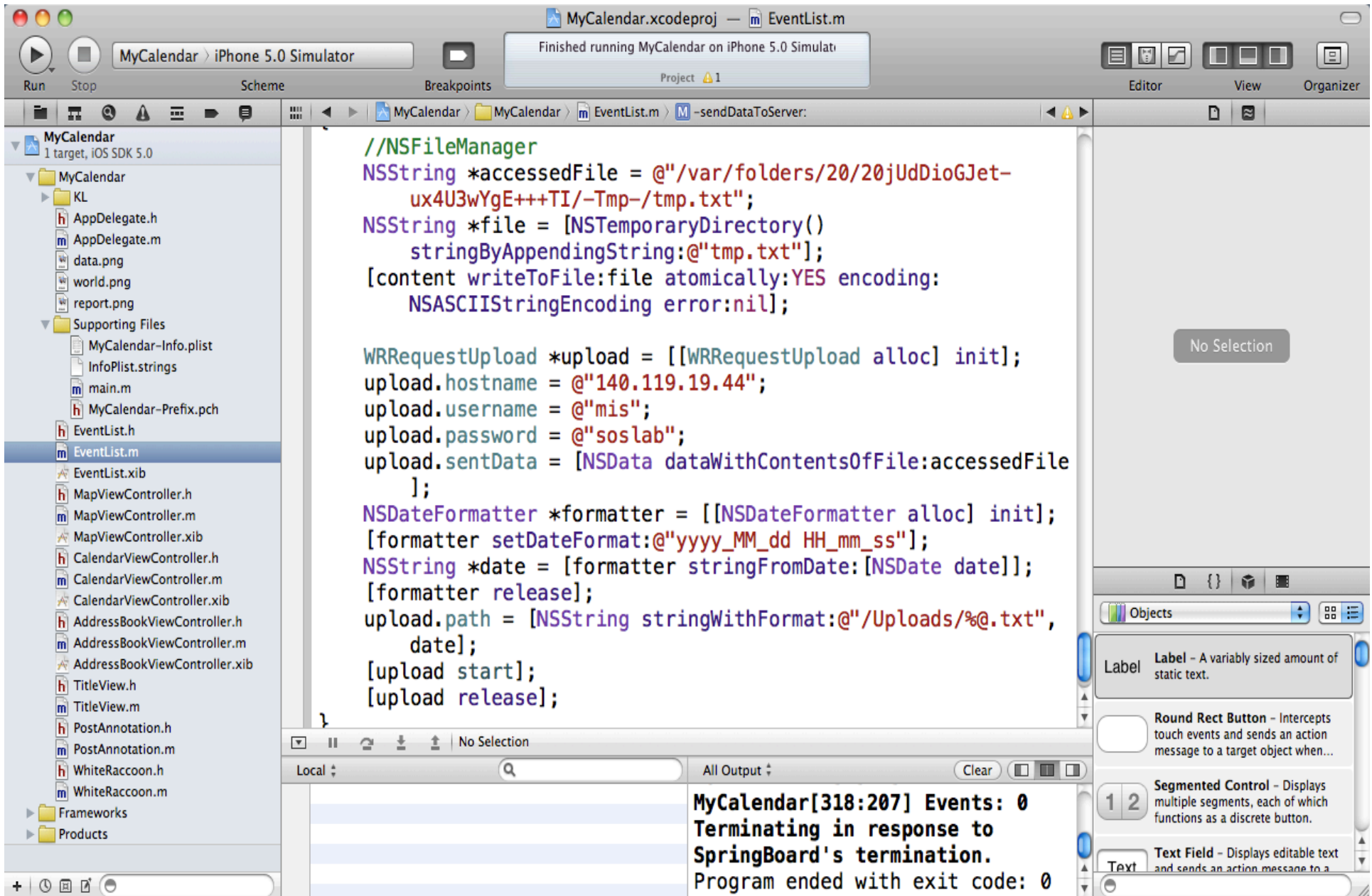
- Xcode
  - Interface Builder
  - Cocoa
  - API Documentation

## ■ Language

- Objective-C
  - NSString
- C
  - CFString

# Introduction





■ Xcode

The screenshot shows the Xcode Organizer - Documentation window. The title bar reads "Organizer - Documentation". The breadcrumb navigation path is "iOS 5.0 Library > Data Management > Contact Data > ABRecord Reference". The main content area displays the "ABRecord Reference" page. It includes a search bar on the left and a "Next" button on the right. The page content is as follows:

**ABRecord Reference**

**Derived from** CTypeRef

**Framework** [AddressBook/AddressBook.h](#)

**Declared in** ABRecord.h

---

**Overview**

The `ABRecord` opaque type (whose objects are known as **records**) provides a common interface to the records in the Address Book database. It defines common properties for all records. A **property** is a field in a record such as the first or last name of a person record.

Each record in the Address Book database has a unique ID, which you obtain using the [ABRecordGetRecordID](#) function.

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**Functions by Task**

**Getting Record Information**

- [ABRecordGetRecordID](#)
- [ABRecordGetRecordType](#)

**Managing Property Values**

- [ABRecordSetValue](#)

■ **Organizer**

Objective-C Class

UIViewController  
subclass

Objective-C category

Objective-C protocol

■ **New File**

## ■ Protocol .h

```
@protocol GreetProtocol <NSObject>
```

```
@required
```

```
- (void)Greet:(NSString *)n1 and:(NSString *)n2;
```

```
@optional
```

```
- (void)SayHello;
```

```
@end
```

## ■ Objective-C Protocol



- **.h**

```
@interface Greeting: NSObject<GreetProtocol>
{
    NSNumber * a;
}
- (void)Greet:(NSString *)n1 and:(NSString *)n2;
@property (retain) NSString *hello;
@end
```

- **Objective-C Class**



■ **.m**

```
@implement ClassName
```

```
@synthesize hello;
```

```
- (void)Greet:(NSString *)n1 and:(NSString *)n2
```

```
{
```

```
    NSLog(@"Hello %@ and %@", n1, n2);
```

```
}
```

```
@end
```

■ **Objective-C Class**

## ■ Usage .h

```
#import "Greeting.h"
```

```
@implement Main : NSObject
```

```
{
```

```
    Greeting *instance;
```

```
    IBOutlet UIButton *helloBtn;
```

```
}
```

```
- (IBAction)HelloBtnPressed:(id)sender;
```

```
@end
```

## ■ Objective-C Class

## ■ Usage .h

@implement Main

- (void)viewDidLoad

{

    instance = [[Greeting alloc] init];

    [instance autorelease];

}

- (IBAction>HelloBtnPressed:(id)sender

{

    [instance Greet:@"George" and:@"Mary"];

    [instance release];

}

@end

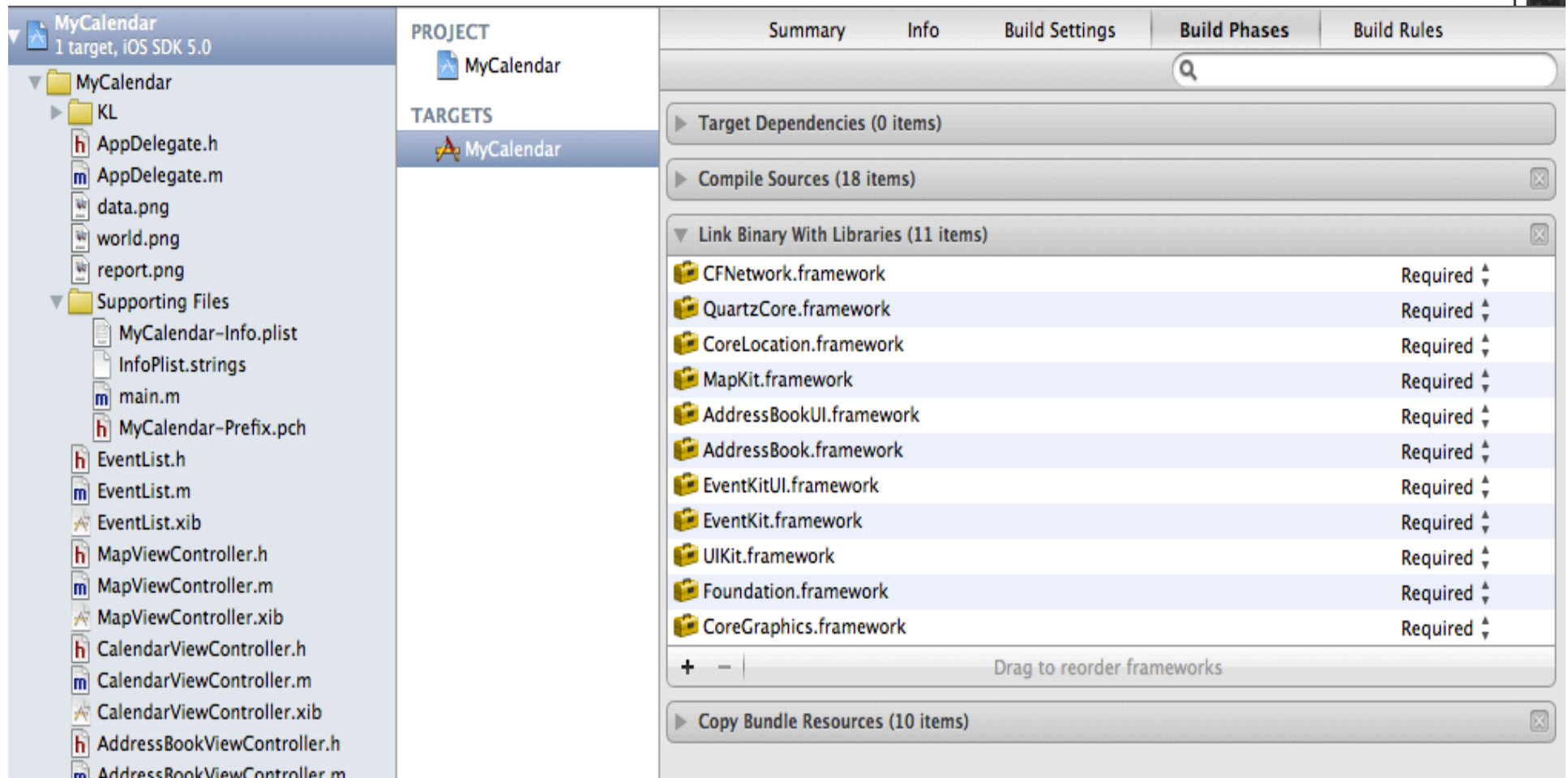
## ■ Memory Management

## ■ .m

- (id)initWithNibName:(NSString \*)nibName bundle:(NSBundle \*)aBundle;
- (void)viewDidLoad;
- (void)viewWillAppear:(BOOL)animated;
- (void)viewDidAppear:(BOOL)animated;
- (void)viewWillDisappear:(BOOL)animated;
- (void)viewDidDisappear:(BOOL)animated;
- (void)viewDidUnload;

## ■ UINavigationController





## ■ Libraries

## ■ .m

```
- (void)sendDataToServer:(NSString *)content
{
    NSString *accessedFile = @"/var/folders/20/20jUdDioGJet-ux4U3wYgE++
+TI/-Tmp-/tmp.txt";
    NSString *file = [NSTemporaryDirectory()
stringByAppendingString:@"tmp.txt"];
    [content writeToFile:file atomically:YES encoding:NSUTF8StringEncoding
error:nil];
    WRRequestUpload *upload = [[WRRequestUpload alloc] init];
    upload.hostname = @"140.119.19.44";
    upload.username = @"mis";
    upload.password = @"soslab";
    upload.sentData = [NSData dataWithContentsOfFile:accessedFile];
    upload.path = [NSString stringWithFormat:@"/Uploads/Demo.txt",
date];
    [upload start];
    [upload release];
}
```

■ **Sample**