Objective-C Overview

Super-set of the C language

Objective C



Good

Objective-C the language is open-source through GCC and Clang.

Bad

- The libraries it depends upon are not open-source.
- There is no specification or standards body

Apple basically controls Objective-C

C

- Functions
- if / for / while / switch
- Manual memory management
- Preprocessor
- Uses pointers *
- structs and enums

Objective-C

- Classes and objects
- Messages
- Properties
- Protocols
- Categories

Objective-C	Java	C#
Message	Method	Method
Protocol	Interface	Interface
Category		Extension Method
Property	Property	Property
Selector		delegate?

Objective-C	Ruby	Python	Javascript
Message	Method		
Protocol	Mixin		
Category			
Property			
Selector			

00 Primer

Class

Recipe for an object



Object

Instance of a class



Method Definition

- (void)doSomethingAmazing;

Send message

[object doSomethingAmazing];

Tells object to do something

[object doSomethingAmazing]

Are worded like sentences

[object showOnScreenAnimated:YES]

Sometimes really long sentences

Method Definition

- (void)animateWithDuration:(CGFloat)duration options:(AnimationOptions)options distance:(NSInteger)distance;

Can be public or private

Public [object doSometing];

Private
[self doSometing];

Property

- Exposes object data. (aka. provides public attributes of the object)
- Should not perform any actions.

object.isAnimating

object.superview

Property Definition

@property BOOL isAnimation;

@property UIView *superview;

Property Definition

@property (nonatomic, assign) BOOL isAnimating;

@property (nonatomic, strong) UIView *superview;

Instance variable (aka. ivar)

provides internal object state

someSecretKey

shouldNotifyOnNextCall

Protocol

Contract or promise that an object will implement a specific methods

Category

Added method to existing classes