Core Location
Adding Where to Your Apps

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Location - Why?

- Navigation
- Social
- Content - news, entertainment
- Search and Advertising
- Gaming
- Tracking
Location - Why?
Location - How?

- Satellite
- Current Location
Location - How?

Cell Tower or WiFi Hotspot
Current Location

Skyhook Wireless
Used?

- Over 300 apps on the AppStore!
Objective-C

2 Files: Header & Implementation

@interface Customer : NSObject {
}
@end

@implementation Customer
@end
Objective-C

- Methods - interface

@interface Customer : NSObject {
}
+ (NSArray *) allCustomers;
- (Money *) averageMonthlySpending;
@end
Objective-C

- Methods - implementation

@implementation Customer
+ (NSArray *) allCustomers {
}

- (Money *) averageMonthlySpending {
}
@end
Objective-C

- Properties - interface

```objective-c
@interface Customer : NSObject {
    NSString *firstName;
}

@property(nonatomic, retain) NSString *firstName;
@end
```

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Objective-C

- Properties - implementation

@implementation Customer

@synthesize firstName;

@end
Tools

- Xcode
- Interface Builder
Delegation
iPhone Core Location

Core Location Manager

set delegate

Location Manager Delegate
iPhone Core Location

Core Location Manager → update pos → Location Manager Delegate
Static Google Maps

- REST - URL based map generation
  - Send a URL out pops an image

- Parameters
  - Zoom
  - Image Size
  - Map Type
  - Markers
  - Paths
Points of Interest

- Interesting places around you
  - Scenic Overlook
  - Hospital
  - Friends
  - etc.
Google Geocoding

- REST based - URL in XML out
  - Lat & Long for and address
- Parameters
  - Address
  - output type (xml, jason, csv)
Distance

- Great Circle
  - distance along the surface of the earth between two locations