

# iPhone Workshop

Welcome



# Themen

- Mobile apps
- Objective-C
- Xcode



# Mobile Apps



Native



PhoneGap

Hybrid



Web



# Objective-C

- Apple main programming language
- Superset of C
- OO



# Superset of C

- \* **.h** - header file (definition).
- \* **.m** - source file(implementation).



# Magic bracket []:

- C++

`object.method(arg);`

- Objective-C

`[object method:arg];`

# Dogg.h

Class name

Super Class

```
@interface Dogg : DangerousSpecie {  
    //Instance/member variables  
    int dangerLevel;  
}  
//Method  
-(void) attack;  
@end
```



# Implementation

Self - current object

Parent class

```
@implementation Dogg

-(id) init {

    if (self = [super init]) {
        //Code omitted...
    }

    return self;
}

-(void) attack {
    [self bite];
}
//Code omitted...
@end
```



# Properties

```
@interface Dog : NSObject {  
    //Code omitted..  
}
```

```
@property int dangerLevel;
```

```
@implementation Dog  
@synthesize dangerLevel;  
//Code omitted..  
@end
```



# Accessors

```
int danger = [dog dangerLevel];  
//[dog setDangerLevel:10];  
dog.dangerLevel = 10;  
//[dog getDangerLevel];  
int d = dog.dangerLevel;
```



# Protocols

```
@protocol UIApplicationDelegate<NSObject>
```

```
@optional
```

- (void)applicationDidFinishLaunching:(UIApplication \*)application;
- (void)applicationDidBecomeActive:(UIApplication \*)application;
- (void)applicationWillResignActive:(UIApplication \*)application;

```
//Code omitted...
```

```
@end
```



# Demo



# Two Apps

Make an app displaying the string 'Hello world' on a UIButton.



**Bonus:** Change background color.

**Bonus:** Change title when highlighted.

Make a simple todo list.

Use a UITableViewController for displaying, storing and reading the todo entries from a property list.



**Bonus:** Use SQLite for storage.

**Bonus:** Improve app, by adding a DetailViewController



# Where to go from here

- Come by App-dev evening each Wednesday here at bitraf.
- Read the developer documentation in xcode.
- Checkout the iOS developer library for sample code. <http://developer.apple.com/library/ios>
- Ask questions on the developer forum. <https://devforums.apple.com/>