

## Objective-C

- is a superset of C
- allows single inheritance
- has special syntax for declaring classes
- has “methods”, like subroutines but dynamic
- allows classes to be extended with “categories”
- allows dynamic typing

## Objective-C

The official reference is Apple's guide:

[The Objective-C Programming Language](#)

If you know C++, look at this web site,

[From C++ to Objective C](#)

# OOP Vocabulary

- **Class**: defines the grouping of data and code, the “type” of an object
- **Instance**: a specific allocation of a class
- **Method**: a “function” that an object knows how to perform
- **Instance Variable (or “ivar”)**: a specific piece of data belonging to an object
- **Property**: a way to access instance variables and other attributes of an object

## Properties

- Provide access to object attributes
- Shortcut to implementing getter/setter methods

Also allow you to specify:

read-only versus read-write access

memory management policy

# Inheritance

**Superclass** (Base class)



**Subclass** (Derived class)

- Hierarchical relation between classes
- A subclass “inherits” behavior and data from its superclass
- Subclasses can use, augment or replace superclass methods

# Inheritance

