

# Objective-J

**Objective-J** is a programming language developed as part of the Cappuccino web development framework. Its syntax is nearly identical to the Objective-C syntax and it shares with JavaScript the same relationship that Objective-C has with the C programming language: that of being a strict, but small, superset; adding traditional inheritance and Smalltalk/Objective-C style dynamic dispatch. Pure JavaScript, being a prototype-based language, already has a notion of object orientation and inheritance, but Objective-J adds the use of class-based programming to JavaScript.

Programs written in Objective-J need to be preprocessed before being run by a web browser's JavaScript virtual machine. This step can occur in the web browser at runtime or by a compiler which translates Objective-J programs into pure JavaScript code. The Objective-J compiler is written in JavaScript; consequently, deploying Objective-J programs does not require a web browser plug-in. Objective-J can be compiled and run on Node.js.

## Contents

### Applications

Applications designed using the Cappuccino Framework<sup>[1]</sup>

### Syntax

### Memory management

### See also

### References

### External links

## Objective-J

<b><u>Paradigm</u></b>	<u>Multi-paradigm</u> : <u>reflective</u> , <u>object-oriented</u> , <u>functional</u> , <u>imperative</u> , <u>scripting</u>
<b><u>Developer</u></b>	Cappuccino Core Developers and community.
<b><u>First appeared</u></b>	2008
<b><u>Typing discipline</u></b>	<u>dynamic</u> , <u>weak</u> , <u>duck</u>
<b><u>License</u></b>	<u>LGPL</u>
<b><u>Website</u></b>	<u>cappuccino-project.org</u> ( <u>http://www.cappuccino-project.org/</u> )
<b><u>Influenced by</u></b>	
<u>Objective-C</u> , <u>JavaScript</u>	

## Applications

The first widely known use of Objective-J was in the Cappuccino-based web application 280 Slides, which was developed by 280 North itself. Even though Objective-J can be used (and has been designed) independently from the Cappuccino framework, Objective-J has primarily been invented to support web development in Cappuccino.

## Applications designed using the Cappuccino Framework<sup>[1]</sup>

- RW Elephant (http://www.rwelephant.com/)
- Mockingbird (http://gomockingbird.com/)
- GithubIssues (http://githubissues.herokuapp.com/)

- [Enstore \(https://web.archive.org/web/20110226082843/http://www.enstore.com/\)](https://web.archive.org/web/20110226082843/http://www.enstore.com/) (until October 2013, they rewrote it using [Ember](#) <sup>[2]</sup>)

## Syntax

---

Objective-J is a superset of JavaScript, which means that any valid JavaScript code is also valid Objective-J code.

The following example shows the definition and implementation in Objective-J of a class named Address; this class extends the root object CPObject, which plays a role similar to the Objective-C's NSObject. This example differs from traditional Objective-C in that the root object reflects the underlying Cappuccino framework as opposed to Cocoa, Objective-J does not use pointers and, as such, type definitions do not contain asterisk characters. Instance variables are always defined in the `@implementation`.

```
@implementation Address : CPObject
{
    CPString name;
    CPString city;
}

- (id)initWithName:(CPString)aName city:(CPString)aCity
{
    self = [super init];

    name = aName;
    city = aCity;

    return self;
}

- (void)setName:(CPString)aName
{
    name = aName;
}

- (CPString)name
{
    return name;
}

+ (id)newAddressWithName:(CPString)aName city:(CPString)aCity
{
    return [[self alloc] initWithName:aName city:aCity];
}

@end
```

As with Objective-C, class method definitions and instance method definitions start with '+' (plus) and '-' (dash), respectively.

## Memory management

---

Objective-C uses ARC (Automatic Reference Counting) for deallocating unused objects. In Objective-J, objects are automatically deallocated by JavaScript's Garbage Collector.

## See also

---

- [Cappuccino \(application development framework\)](#)

## References

---

1. "Demos in Cappuccino" (<https://www.webcitation.org/6J8Waykul?url=http://www.cappuccino-project.org/learn/demos.html>). *Demos in Cappuccino*. Archived from the original (<http://cappuccino.org/learn/demos/>) on 25 August 2013. Retrieved 26 February 2011.
2. <http://blog.acclivitynyc.com/post/64981755172/dumped-cappuccino-and-switched-to-ember>

## External links

---

- [Official website \(http://cappuccino-project.org/\)](http://cappuccino-project.org/)
  - ["Learning Objective-J" \(http://cappuccino-project.org/learn/tutorials\)](http://cappuccino-project.org/learn/tutorials). Cappuccino Web Framework.
- 

Retrieved from "<https://en.wikipedia.org/w/index.php?title=Objective-J&oldid=956139490>"

---

This page was last edited on 11 May 2020, at 18:14 (UTC).

Text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. By using this site, you agree to the Terms of Use and Privacy Policy. Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc., a non-profit organization.