



Cappuccino

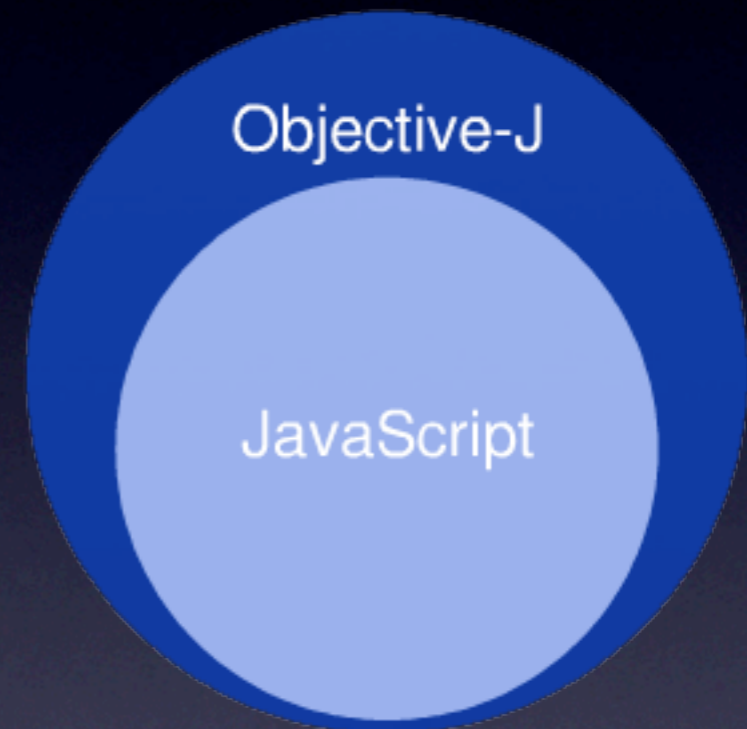
„Cocoa for the Web“

Cappuccino

- Clientseitiges Webapp-Framework
- Cocoa-Portierung auf JavaScript
- Foundation, AppKit, CoreGraphics und CoreAnimation
- Objective-J statt HTML, CSS und DOM
- Open source (LGPL)

Objective-J

- JavaScript „Erweiterung“
- Portierung der Syntax von Objective-C (1.x)
- Mit speziellen Anpassungen
- Kein Memory Management
- ECMA-Script 4, JavaScript 2



Objective-J

```
@import <Foundation/CPObject.j>

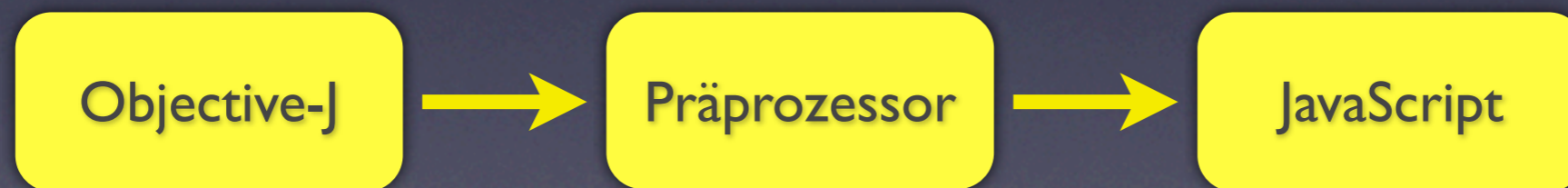
@implementation ApplicationController : CPObject {
    CPWindow theWindow;
    CPView theMainView @accessors;
}

- (void)awakeFromCib {
    [theWindow setFullBridge:YES];
}

- (void)applicationDidFinishLaunching:(CPNotification)aNotification {
    // enable logging
    CLogRegister(CLogConsole);
    // do something
    var aString = @"An Objective-J String"
    [self doSomethingWithString:aString andWindow:theWindow];
}
```

Objective-J

- Kein Plugin oder kompilieren nötig
- .j-Dateien werden on the fly interpretiert und in JavaScript umgewandelt
- Umwandlung durch Präprozessor (JavaScript)



Browserkompatibilität

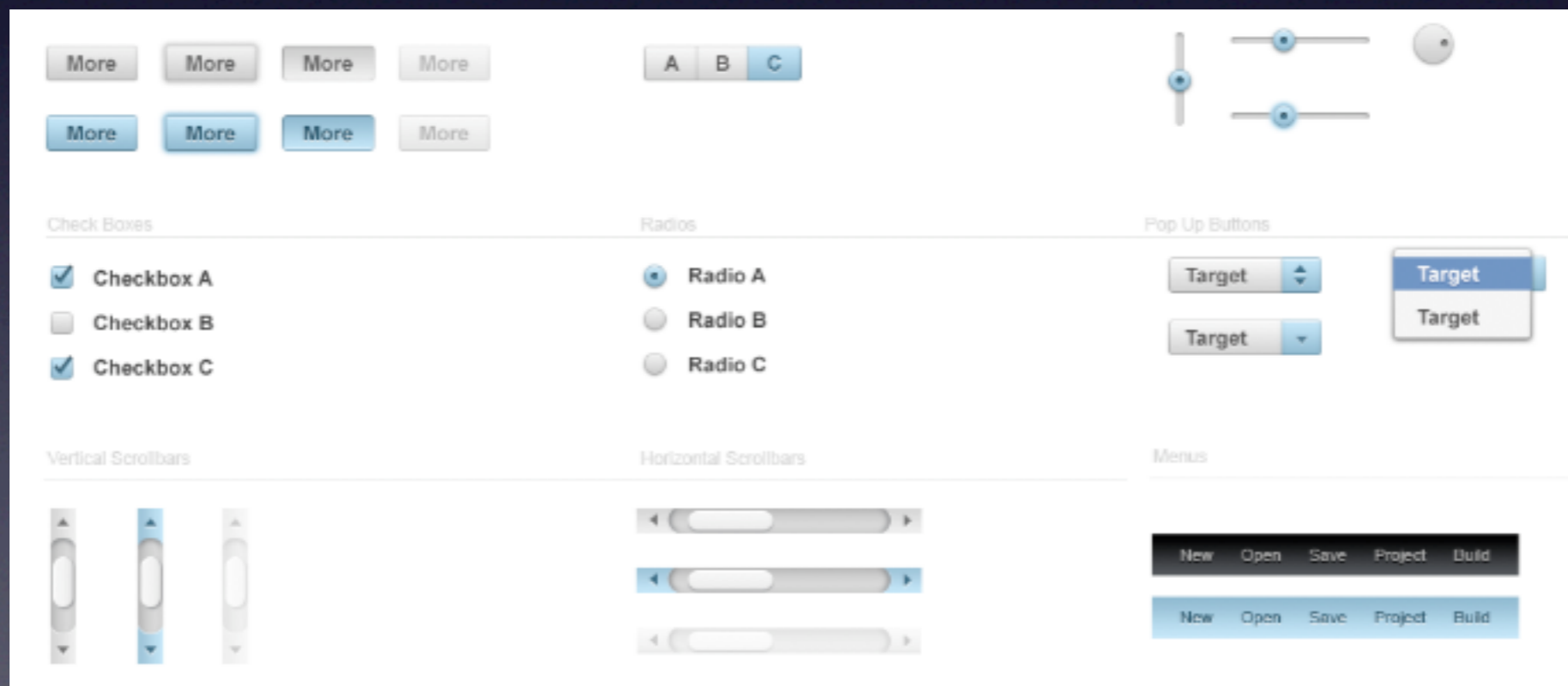
- Internet Explorer 6 & 7
- Firefox 2 & 3
- Safari 3 / WebKit
- Google Chrome
- Opera 9

Wichtigstes Merkmal:

**JavaScript
Engine**

Aristo

- Theme Support
- Open Source (Photoshop)



Tools

- capp - Projekterzeuger
- objj - Objective-J Interpreter
- ojunit - Unit Testing Kit
- nib2cib - XIB-Konverter
- cplutil - PList Utility

Tools

- press - Optimizer
- bake - Deployment-Tool
- WebKit JavaScript Profiler

Self ▼	Total	Average	Calls	Function
11.08%	12.34%	2.22%	5	▶ - [CPView setBackgroundColor:]
4.91%	5.03%	0.38%	13	▶ - [CPIImage load]
4.58%	6.09%	0.46%	10	▶ - [CPView setFrameSize:]
3.55%	5.70%	3.55%	1	▶ - [CPDOMWindowBridge _initWithDOMWindow:]
2.43%	49.90%	2.43%	1	▶ - [_CPStandardWindowView initWithFrame:style]
2.25%	11.57%	0.19%	12	▶ - [CPView initWithFrame:]
2.15%	82.81%	2.15%	1	▶ - [CPWindow initWithContentRect:styleMask:bridge:]
2.04%	7.84%	1.02%	2	▶ - [CPWindow setHasShadow:]
1.91%	2.15%	1.91%	1	▶ - [CPString sizeWithFont:inWidth:]
1.53%	2.13%	0.05%	32	▶ - [CPThemedAttribute valueForControlState:]
1.46%	6.91%	0.15%	10	▶ - [CPView _insertSubview:atIndex:]
1.06%	3.80%	0.04%	27	▶ - [CPView _setWindow:]
1.04%	1.48%	1.04%	1	▶ - [_CPBorderlessBridgeWindowView tile]

Atlas

- „Interface Builder im Browser“
- Cappuccino-Editor
- Reduzierung des UI-Codes
- Interface-File Format: cib



Ausblick

Links

- Cappuccino Website: <http://cappuccino.org>
- 280Slides: <http://280slides.com>
- Atlas Video: <http://www.viddler.com/explore/boucher/videos/1/>
- WebKit JavaScript Debugger: <http://alertdebugging.com>