Apple Development: pre-Swift

Client-side Development



Language: Objective-C

Server-side Development



```
Node.js / JavaScript
RoR / Ruby
ASP.NET / C#
PHP
(etc.)
```

```
let toaster = Appliance();
toaster.model = "CrunchMaster 5000";
toaster.voltage = 120;
```

Semicolons aren't needed

```
#include <stdio.h>
int main(void)
{
    [ your code goes here ]
    return 0;
}
```

A Simple Program in C

```
using System;
internal static class HelloWorld
   private static void Main()
     [ your code goes here ]
```

A Simple Program in C#

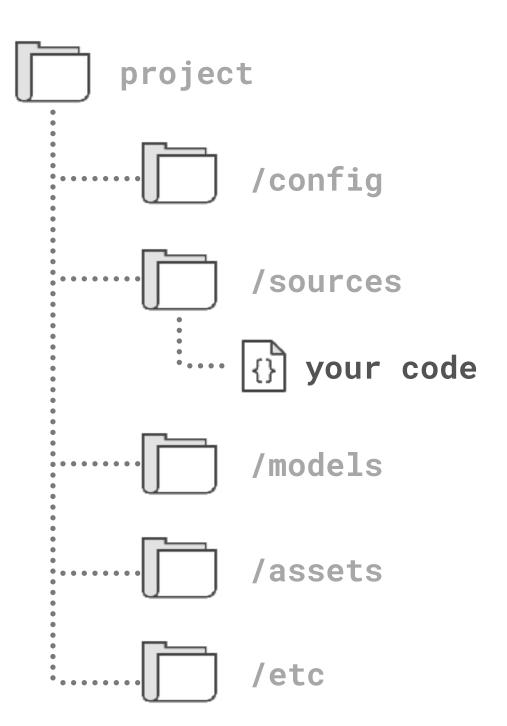
```
class HelloWorld {
   public static void main(String[] args) {
      [ your code goes here ]
   }
}
```

A Simple Program in Java

[your code goes here]

A Simple Program in Swift

Writing and Running Swift in a Playground



name
firstName
dateOfBirth
jackOfAllTrades

Use Lower Camel Case for Variables

Type Inference

Swift *infers* the type from the initial value

```
var playerName = "Alice"
var age = 21
var temperature = 72.6
var activeMember = true
```

var is required

And is the *only* way to declare variables

SIDEBAR: The Swift Compilation Process

DEVELOPER

SWIFT IS A COMPILED LANGUAGE

SOURCE CODE > FULL COMPILATION

SHIPZ

MACHINE CODE

USER

RUN

INTERMEDIATE (C#, JAVA)

SOURCE CODE > PARTIAL COMPILATION

BYTECODE

JIT COMPILE* > RUN

*VM / Runtime Engine required

INTERPRETED LANGUAGES
(JAVASCRIPT, RUBY)
SOURCE CODE - NO COMPILATION

SOURCE

INTERPRET* > RUN
*Interpreter required