Swift Syntax compared with Objective-C, C# and JavaScript

	Swift	Objective-C	C#	JavaScript
Variables		•		•
1000	var number = 1	int number = 1;	var number = 1;	var number = 1;
	var number: Int = 1		int number = 1;	
	var language = "Swift"	NSString *language = @"Swift";	var language = "Swift";	var language = "Swift";
	var language: String = "Swift"		string language = "Swift";	
Constants				
	let language = "Swift"	NSString *language = @"Swift";	const string language = "Swift";	Not Applicable
	let language: String = "Swift"			
Arrays				
Declare	var arr = ["first" , "second"]	NSArray *arr = @[@"first", @"second"];	<pre>var arr = new[] { "first", "second" };</pre>	var arr = ["first", "second"];
Get	var order = arr[0]	NSString *order = arr[0];	var order = arr[0];	var order = arr[0];
Set	arr[0] = "zero"	[arr replaceObjectAtIndex:0 withObject: @"third"];	arr[0] = "third";	arr[0] = "third";
Append	arr += "fourth"	[arr addObject: @"fourth"];	Array.Resize(ref arr, arr.Length + 1);	arr.push("fourth");
Дрена	arr.append("fifth") arr += ["sixth", "seventh"]	[an addobject.	arr[arr.Length - 1] = "Three";	an.pasii(ioditii),
Enumerate	for item in arr{ //do something	for(NSString *item in arr)	foreach (var item in arr)	for (var iitem in arr){
	}	// do something	// do something	//do something
Dictionaries		J		
Declare	var dict = Dictionary <string, string="">()</string,>	NSDictionary *dict = @{	var dict = new Dictionary <string, string=""></string,>	N/A
200.0.0	can dist 2 isasinary carries (@"MEL" : @"Melbourne",	{	Potential use of JavaScript objects as associative
	var dict = ["MEL": "Melbourne", "SYD": "Sydney"]	@"SYD" : @"Sydney"	{ "MEL", "Melbourne" },	arrays.
) ;	{ "SYD", "Sydney" }	
O 1	11 (51) 45-1 113	NOO!	};	
Get	var entry = dict["MEL"]	NSString *entry = dict[@"MEL"];	var entry = dict["MEL"];	
Set	dict["PER"] = "Perth"	dict[@"PER"] = @"Perth";	dict["PER"] = "Perth";	
Append	As above	As above	As above	
Enumerate	for (cityCode, cityName) in dict {	for (id key in dict) {	foreach (var item in dict)	
	println("\(cityCode): \(cityName)")	NSLog(@"key: %@, value: %@", key, dict[key]);	var cityCode = item.Key;	
	}	1	var cityName = item.Value;	
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Loops			 	
for	for var number = 1; number < 5; number++ {	for (int number = 1; number <5; number++)	for (int number = 1; number < 5; number++)	for (number = 1; number < 5; number++) {
	//do something	{	(
	}	//do something	//do something	}
		}	}	
For in	for city in arr {	for (id city in arr)	foreach (var city in arr)	for (city in arr) {
	println(city)	// do something	\{	
	}	}	// do something	}
			}	
while	var number = 1	int number = 1;	int number = 1;	while (number < 10) {
wniie	while number < 10 {	while (number <10) {	while (number < 10)	alert ("The number is " + number);
	println(number)	NSLog(@"%i", number);	{	
	number++	number++;	Console.WriteLine(number);	number++;
	}	}	number++;	1
	,	,	}	
Do while	var number = 9	int number = 9;	int number = 9;	do {
	do {	do{		alert ("The number is " + number);
	println(number)	NSLog(@"%i", number);	do {	22. 5 (e namber 15)

	number++ }while number < 10	number ++; } while (number < 10);	Console.WriteLine(number); number++;	number++; }
			} while (number < 10);	while (number < 10);
Conditionals				
If	<pre>if city == "MEL"{ println("Melbourne") }</pre>	<pre>if ([city isEqualToString: @"MEL"]) { NSLog(@"Melbourne"); }</pre>	<pre>if (city == "MEL") { Console.WriteLine("Melbourne"); }</pre>	<pre>if (city == "MEL") { alert("Melbourne"); }</pre>
If - else	<pre>if city == "MEL"{ println("Melbourne") }else if city == "SYD" { println("Sydney") }else { println("Perth") }</pre>	<pre>if ([city isEqualToString: @"MEL"]) { NSLog(@"Melbourne"); } else if ([city isEqualToString: @"SYD"]) { NSLog(@"Sydney"); } else } NSLog(@"Perth"); }</pre>	<pre>if (city == "MEL") { Console.WriteLine("Melbourne"); } else if (city == "SYD") { Console.WriteLine("Sydney"); } else { Console.WriteLine("Perth"); }</pre>	<pre>if (city == "MEL") { alert("Melbourne"); } else if (city == "SYD") { alert("Melbourne"); } else { alert("Perth"); }</pre>
Switch	switch city { case "MEL": println("Melbourne") case "SYD": println("Sydney") default: println("Perth") }	<pre>int number =2; switch (number) { case 1: NSLog (@"one"); break; case 2: NSLog (@"two"); break; default: NSLog (@"unknown"); break; }</pre>	switch (city) { case "MEL": Console.WriteLine("Melbourne"); break; case "SYD": Console.WriteLine("Sydney"); break; default: Console.WriteLine("Perth"); break; }	switch (city) { case "MEL": Console.WriteLine("Melbourne"); break; case "SYD": Console.WriteLine("Sydney"); break; default: Console.WriteLine("Perth"); break; }
Functions				
Declare	func sayName(){ println("Patrick") }	<pre>void sayName() { NSLog(@"Patrick"); }</pre>	<pre>public void SayName() { Console.WriteLine("Patrick"); }</pre>	<pre>func sayName(){ alert ("Patrick"); }</pre>
Single Parameter	<pre>func sayName(name: String){ println(name) }</pre>	void sayName (NSString *name) { NSLog(@"%@", name); }	<pre>public void SayName(String name) { Console.WriteLine(name); }</pre>	<pre>func sayName(name){ alert (name); }</pre>
Multiple Parameters	<pre>func sayName(name: String, lastName: String){ println("\(name) \(lastName)") }</pre>	void sayTwoNames (NSString *name, NSString *lastName) { NSLog(@"%@ %@", name, lastName); }	public void SayName(String name, String lastName) { Console.WriteLine(name + lastName); }	<pre>func sayName(name, lastName){ alert (name + lastName); }</pre>
Return Value	<pre>func sayName(name: String, lastName: String) - >String { return "\(name) \(lastName)" }</pre>	NSString *saymyname(NSString *name, NSString *lastname) { NSString *fullName = [NSString stringWithFormat:@"%@ %@", name, lastname]; return fullName; }	<pre>public String SayName(String name, String lastName) { return (name + lastName); }</pre>	<pre>func sayName(name, lastName){ return (name + lastName); }</pre>