

# Creating and Using Blocks

Brice Wilson  
[www.BriceWilson.net](http://www.BriceWilson.net)  
[@brice\\_wilson](https://twitter.com/brice_wilson)



**pluralsight**   
hardcore dev and IT training

# Introduction

What are blocks?

Syntax

Variable Scope

Inline Blocks

**Do Not Place Anything  
in This Space**

(Add watermark during  
editing)

Note: Warning will not appear  
during Slide Show view.

# What is a Block?

A block is an anonymous inline collection of code.

— Apple

**Do Not Place Anything  
in This Space**

(Add watermark during  
editing)

Note: Warning will not appear  
during Slide Show view.

# Block Features

- Typed argument list
- Inferred or declared return type
- Can capture state from lexical scope
- Can optionally modify state of lexical scope

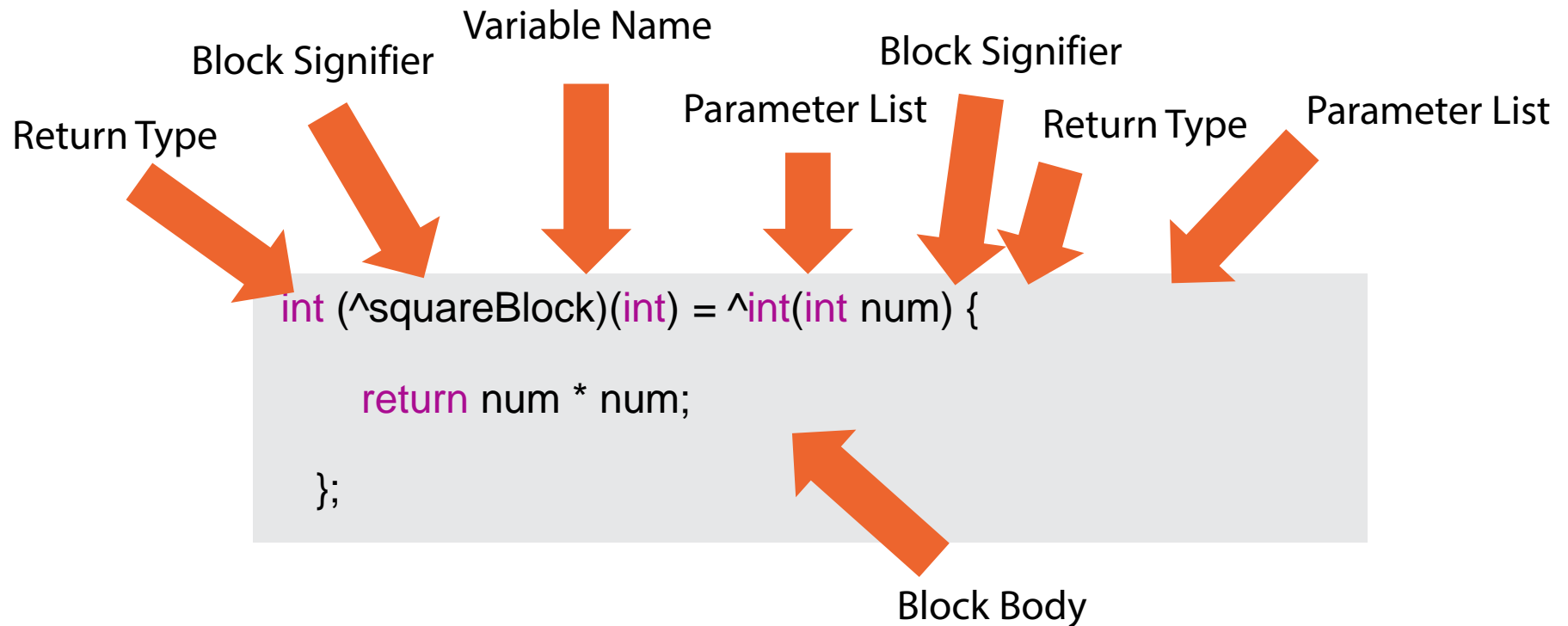


**Do Not Place Anything  
in This Space**

(Add watermark during  
editing)

Note: Warning will not appear  
during Slide Show view.

# Block Syntax



**Do Not Place Anything  
in This Space**

(Add watermark during  
editing)

Note: Warning will not appear  
during Slide Show view.

# Variable Scope

```
- (void)changeVarInBlock {  
    int constInBlock = 5;  
    __block int modifyInBlock = 10;  
    int (^addLexicalScopeVars)(void) = ^int(void) {  
        modifyInBlock = 25;  
        return constInBlock + modifyInBlock;  
    };  
    int sum = addLexicalScopeVars();  
    NSLog(@"The sum is %d", sum);  
}
```

**Do Not Place Anything  
in This Space**

(Add watermark during  
editing)

Note: Warning will not appear  
during Slide Show view.

# Inline Blocks

```
- (void)runMyBlock:(void (^)(NSString * stringParam))block;
```

Block Signifier

Block Parameters

```
[self runMyBlock:^(NSString *str) {
```

```
    NSLog(@"Here is my string: %@", str);
```

```
}];
```

Block Body

**Do Not Place Anything  
in This Space**

(Add watermark during  
editing)

Note: Warning will not appear  
during Slide Show view.

# Summary

- Anonymous collections of inline code
- Syntax
- Capture local variables
- Inline blocks



**Do Not Place Anything  
in This Space**

(Add watermark during  
editing)

Note: Warning will not appear  
during Slide Show view.