Immediately Invoked Functions Expressions (IIFEs)

An immediately-invoked function expression is a JavaScript programming language idiom which produces a lexical scope using JavaScript's function scoping.

Example of function statement

```
function greet(name) {
    console.log('Hello ' + name);
}
greet('John');
```

Example of using a function expression

```
var greetFunc = function(name) {
    console.log('Hello ' + name);
};
greetFunc('John');
```

Example of IIFE

```
var firstname = 'John';

(function(name) {
    var greeting = 'Inside IIFE: Hello';
    console.log(greeting + ' ' + name);

}(firstname));
```

Immediately-invoked function expressions can be used to avoid variable hoisting from within blocks, protect against polluting the global environment and simultaneously allow public access to methods while retaining privacy for variables defined within the function. This concept has been referred to as a self-executing anonymous function but Ben Alman introduced the term IIFE as a more semantically accurate term for the idiom.