

Revealing Prototype Pattern



Agenda

- **Revealing Prototype Pros & Cons**
- **Revealing Prototype Structure**
- **Using the Revealing Prototype Pattern**

Agenda

- **Revealing Prototype Pros & Cons**
- **Revealing Prototype Structure**
- **Using the Revealing Prototype Pattern**

The Revealing Prototype Pattern

■ Pros:



- Combines Prototype and Revealing Module patterns
- “Modularize” code into re-useable objects
- Variables/functions taken out of global namespace
- Expose only public members
- Functions loaded into memory once
- Extensible

■ Cons:



- "this" keyword can be tricky
- Constructor separate from prototype definition

Agenda

- **Revealing Prototype Pros & Cons**
- **Revealing Prototype Structure**
- **Using the Revealing Prototype Pattern**

Revealing Prototype Structure Overview

```
var Calculator = function (eq) {  
    //variables defined here  
};  
  
Calculator.prototype = function() {  
    //functions defined here  
  
    return {  
        //public members defined here as  
        //with Revealing Module Pattern  
    };  
}();
```

Revealing Prototype Structure

```
var Calculator = function (eq) {  
    this.eqCtl = document.getElementById(eq);  
};
```

```
Calculator.prototype = function() {  
    var add = function (x, y) {  
        var val = x + y;  
        this.eqCtl.innerHTML = val;  
    };  
    return { add : add };  
}();
```

```
var calc = new Calculator('eqCtl');  
calc.add(2,2);
```

Prototype Structure Review

```
var Calculator = function(eq) {  
    this.eqCtl = document.getElementById(eq);  
};
```

```
Calculator.prototype = {  
    add: function (x, y) {  
        var val = x + y;  
        this.eqCtl.innerHTML = val;  
    }  
};
```

```
var calc = new Calculator('eqCtl');  
calc.add(2,2);
```


Agenda

- **Revealing Prototype Pattern Pros & Cons**
- **Revealing Prototype Pattern Structure**
- **Using the Revealing Prototype Pattern**

Summary

- **Revealing Prototype pattern provides encapsulation of variables and functions**
- **Combines the best parts of the Prototype Pattern and the Revealing Module Pattern**
- **Provides a way to add visibility (public versus private) to members**
- **Provides extension capabilities**

For more in-depth **online** developer **training** visit



on-demand content from authors you **trust**