

Revealing Module Pattern



Agenda

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

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The Revealing Module Pattern

■ Pros:



- “Modularize” code into re-useable objects
- Variables/functions taken out of global namespace
- Expose only public members
- "Cleaner" way to expose public members

■ Cons:



- Functions may be duplicated across objects in memory when not using singleton
- Not easy to extend
- Some complain about debugging

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Revealing Module Structure Overview

```
var calculator = function() {  
    //private variables  
    //private functions  
  
    return {  
        //public members  
    };  
}();
```

Revealing Module Pattern Structure

```
var calculator = function(eq) {  
    var eqCtl = document.getElementById(eq),  
        doAdd = function(x,y) {  
            var val = x + y;  
            eqCtl.innerHTML = val;  
        };  
  
    return { add: doAdd }; //Expose public member  
}('eqCtl');
```

```
calculator.add(2,2);
```

Module Pattern Structure Review

```
var Calculator = function(eq) {  
    //private member  
    var eqCtl = document.getElementById(eq);  
  
    return {  
        //expose public member  
        add: function(x,y) {  
            var val = x + y;  
            eqCtl.innerHTML = val;  
        }  
    };  
};
```

```
var calculator = new Calculator('eq');  
calculator.add(2,2);
```


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Summary

- **Revealing Module pattern provides encapsulation of variables and functions**
- **Provides a way to add visibility (public versus private) to members**
- **Cleaner way to expose public members compared to Module pattern**
- **Extending objects can be difficult since no prototyping is used**

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