

### Annotations

- See elsewhere <sup>1</sup> See footnote
- ? Optional <sup>R</sup> Ruby on Rails

### Viewmodel (JavaScript)

```
var vm = function(value) {
    this.variable = ko.observable(value);
};
ko.applyBindings(new vm('...'), DOM2);
```

### Templates (HTML)

```
<div data-bind="bindings" >html</div>
<!-- ko bindings -->html<!-- /ko -->
<script type="text/html" id="T">html</script>
<!-- MSIE Always quote if in { 'if': ... } bindings.
```

### Observables

```
.isObservable .isWritableObservable()
() .writeable()
.isComputed() .value Has Mutated()
.subscribe(function(v) {}, trg1,2, event): s
```

```
.notifySubscribers(currentvalue)
s.dispose()
```

- <sup>1</sup> Default to this.
- <sup>2</sup> change (default) or before Change.

### ko.observable(value)

```
() : value (value) : vm
```

### ko.observableArray(array)

```
() : 1 [] ([]) : vm
.pop() : item .push(item)
.shift() : item .unshift(item)
.remove(item) .removeAll()
.indexOf(item) : .reverse()
-/#1
.slice(s, e2): .splice(s, l2, ...2)
[] : []
.sort(function(a, b)2: -/0/+2)
.destroy(item)R .destroyAll()R
```

### ko.computed(function() {})<sup>1</sup>

```
() : value
1 Use ko.pureComputed if only observables.
```

### Appearance bindings

```
text: string html: string
css: { class: bool, ... } style: { css: value, ... }
attr: { attribute: value, ... }
visible: bool template: string
```

### "template" appearance binding

```
name: string nodes: [DOM, ...]
data: [] if: bool
foreach: [] as: string
afterRender: function([DOM], context)
afterAdd: function before Remove: function
n
```

### Control flow bindings

```
foreach: []/{}→ with: observable
if: bool ifnot: bool
component: observable
```

### "foreach" control flow binding

```
data: [] as: string
afterRender: function
afterAdd: function before Remove: function
n
before Move: function afterMove: function
n
includeDestroyedR: bool
```

### Form bindings

```
click: function event: { event: function }
submit: function
value: string textinput:1 string
enable: bool disable: bool
hasFocus: bool checked: bool
options: []/{}→ unique Name: bool
```

- <sup>1</sup> Updates value on keypress, clipboard, etc.

### "options" form bindings

```
option sCa ption: string
option sText: string option sValue
option sAf ter Render: function
select edO ptions1: valueA llo wU
[] ool
option sIn clu deD est royedR: bool
1 Only for multiple selects.
```

### Context variables

```
$root: vm $component: vm
$parent: vm $parents[index]: vm
$data: vm $rawData: vm
$element: $index1: integer
DOM
$componentTemplateNodes:
DOM array
$context: $parentContext:
context context
```

- <sup>1</sup> Only available in foreach loops.

### Writable ko.computed(...)

```
this.value = ko.observable();
this.double = ko.pureComputed({
    read: function () { return
this.value * 2; },
    write: function(v) {
this.v alue(v / 2); },
    owner: this2
});
```

### Builtin extenders

```
.extend({ rateLimit: { timeout: mil
econds, method: method1,2 } })
.extend({ notify: 'always' });
1 notify AtF ixedRate/notify Whe
nCh ang esStop
```

### Custom extenders

```
1 Get length: () .length. Get item: () [index]
```



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```
ko.extenders.log =  
function(target, option) {  
    target.subscribe(function(newValue) {  
        console.log(option + ": " + newValue);  
    });  
    return target;  
};
```

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