@joedotjs

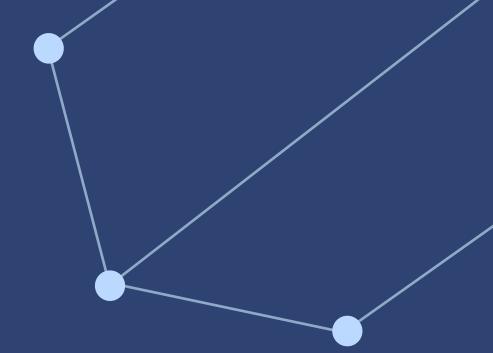


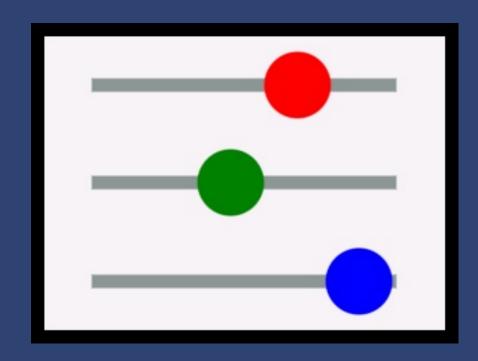


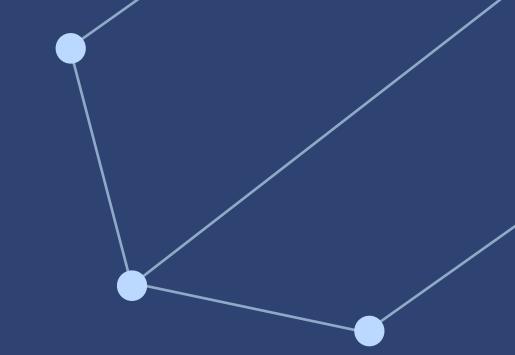
Building Custom Inputs with mgModelController

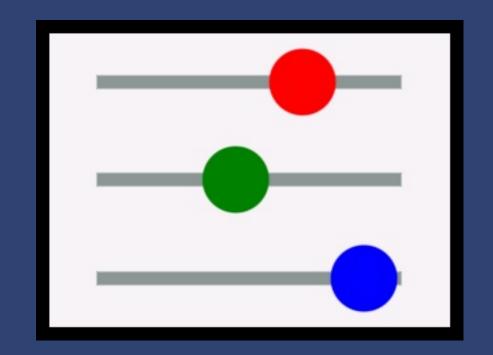


Directive-to-Directive Communication





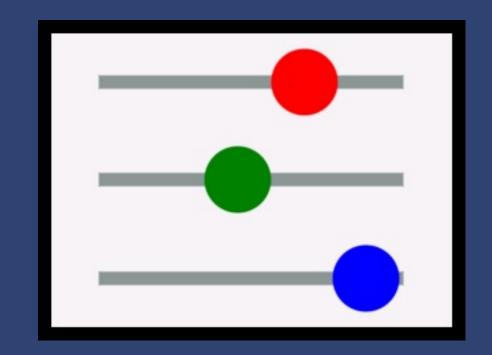


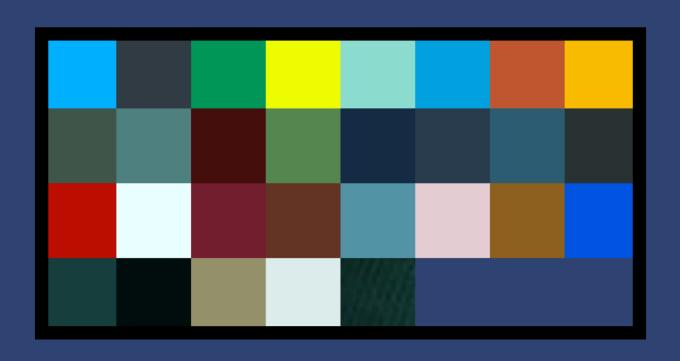


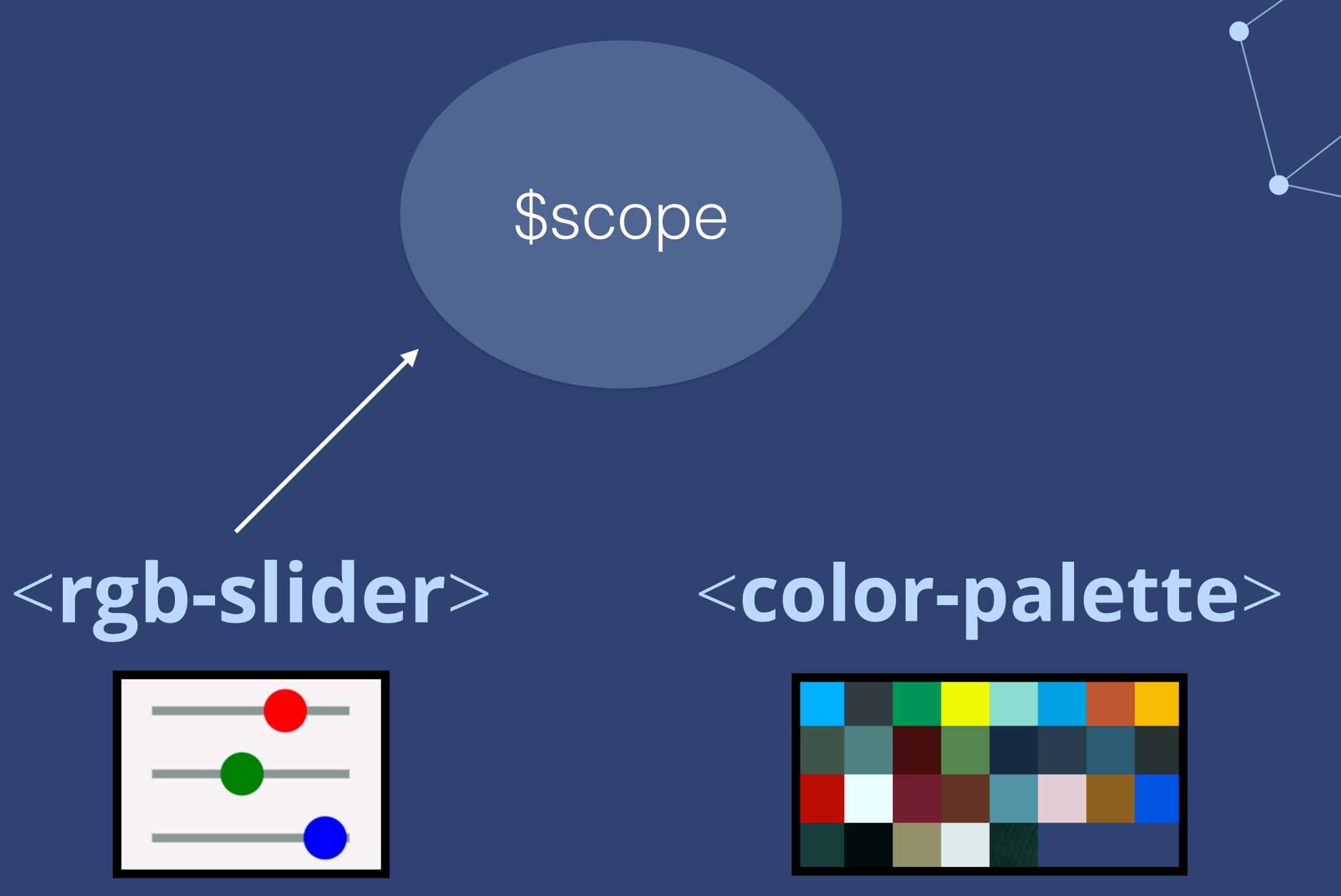


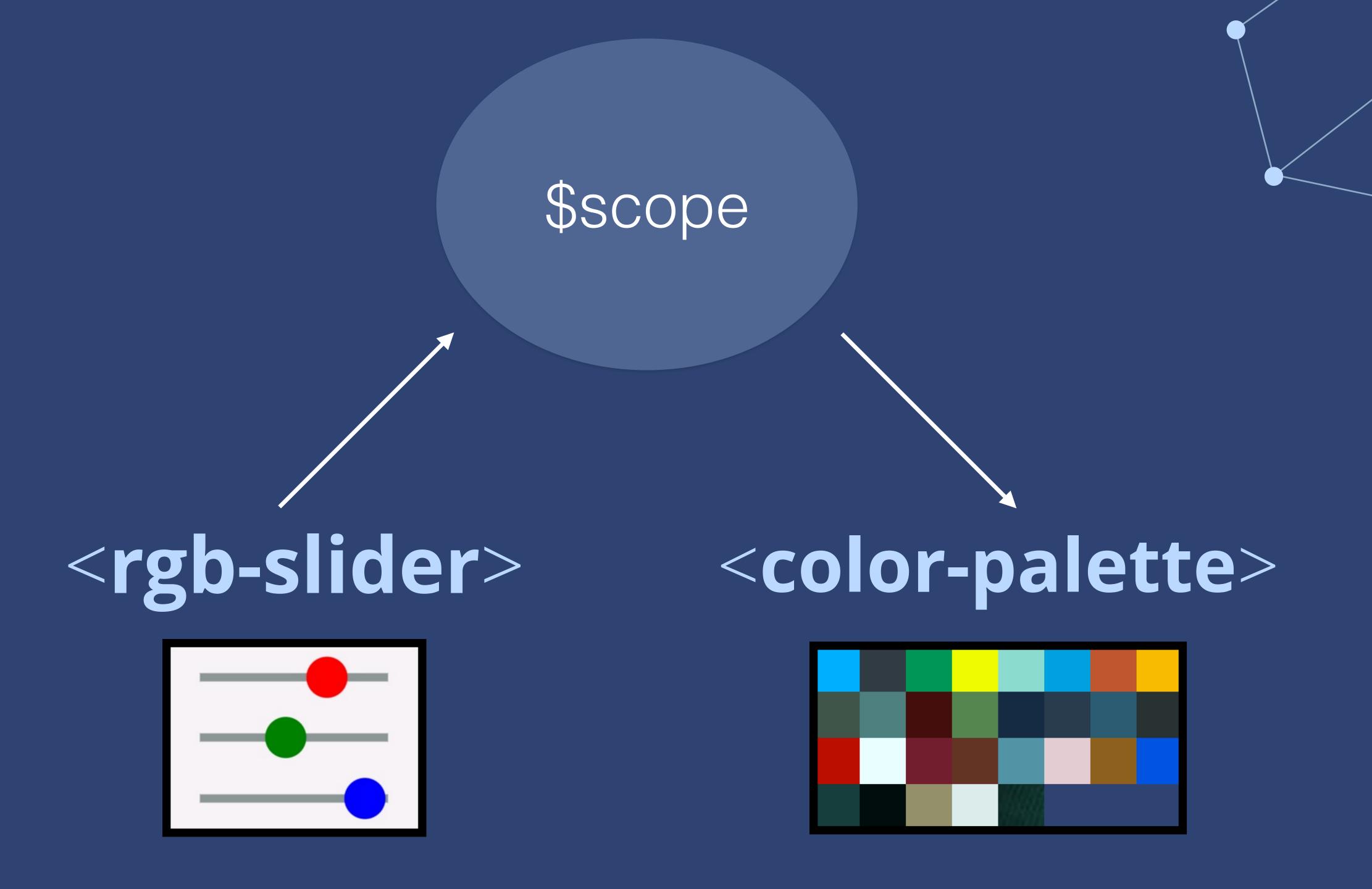


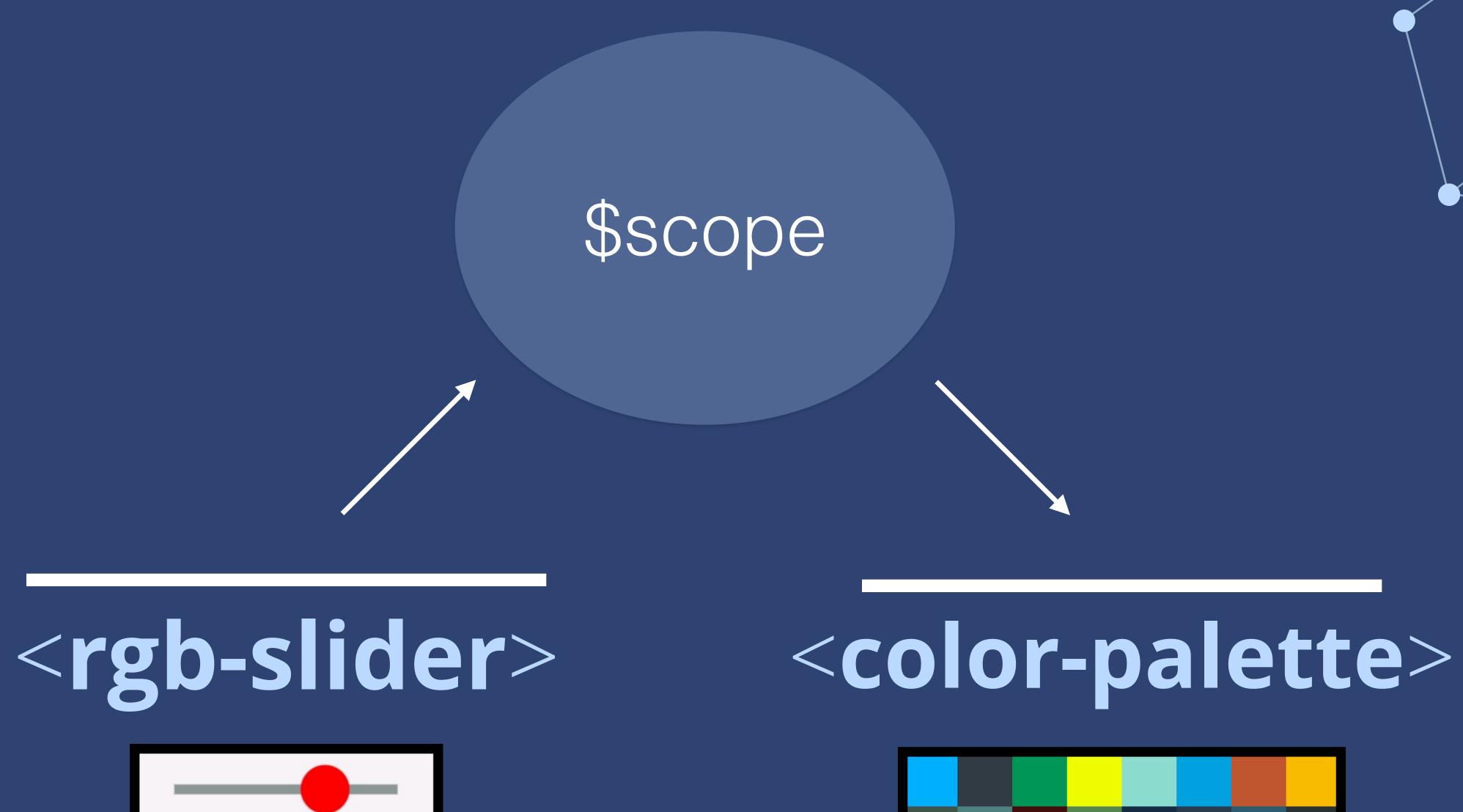


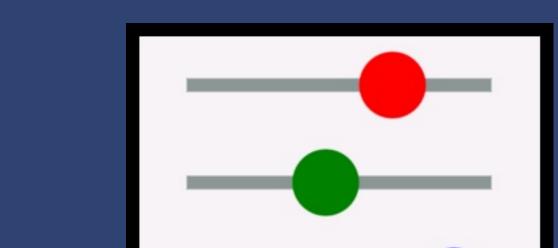


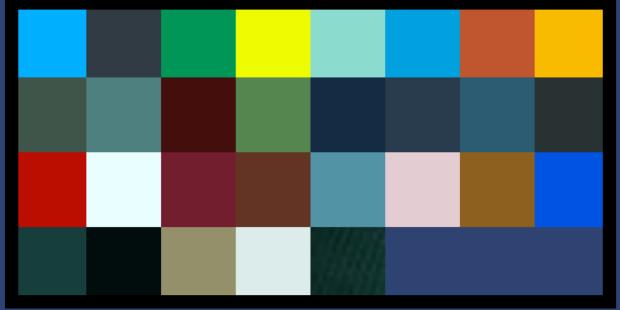


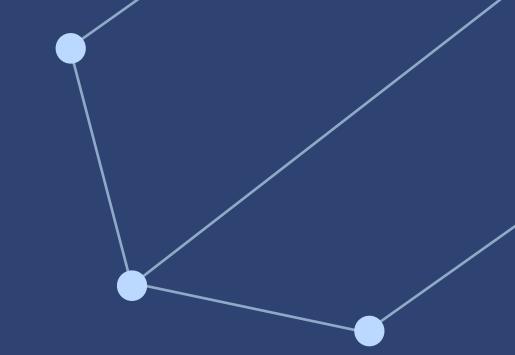


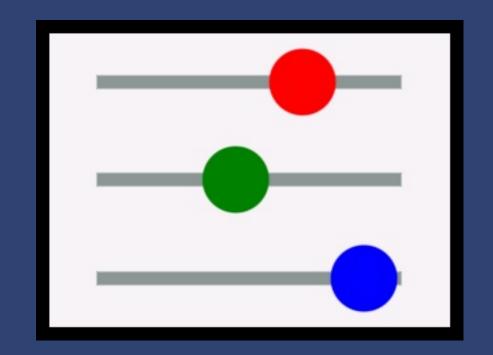




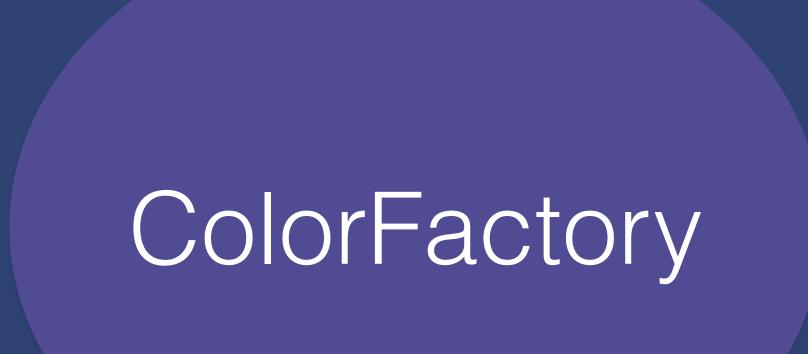




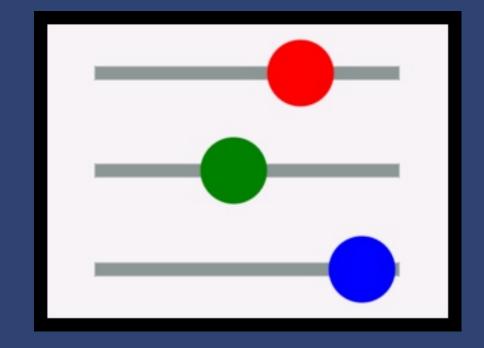




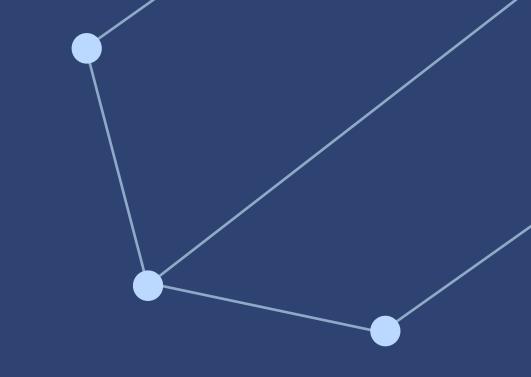






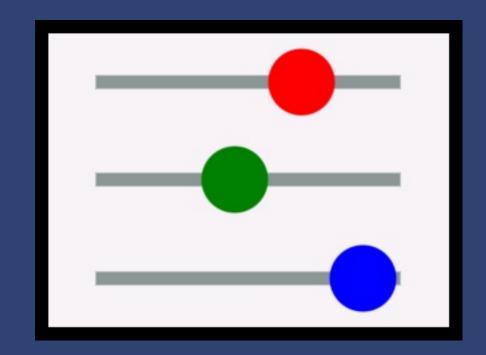


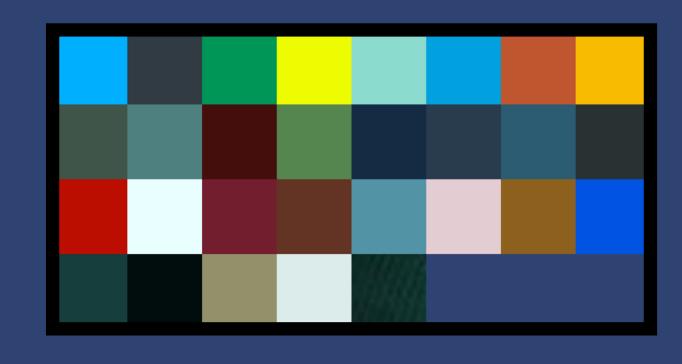








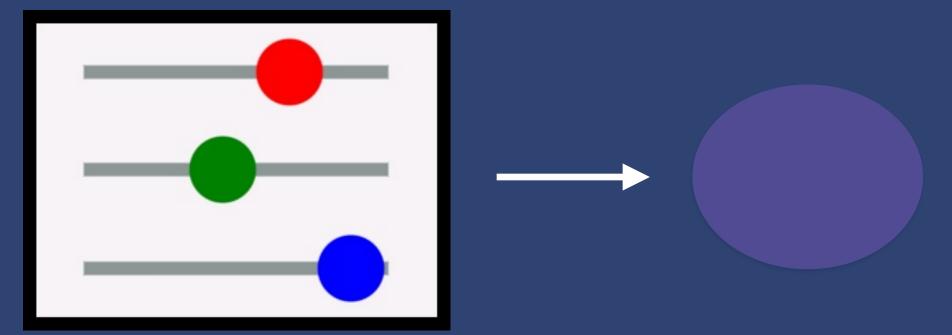


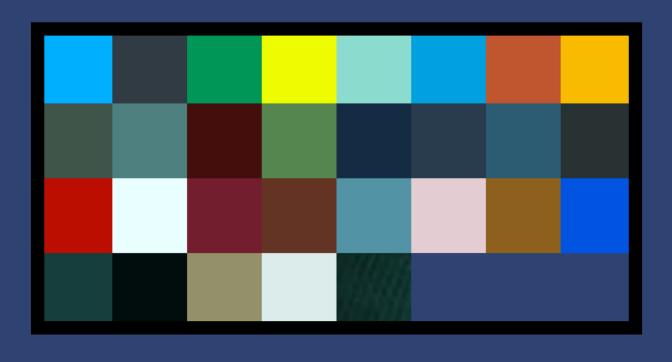






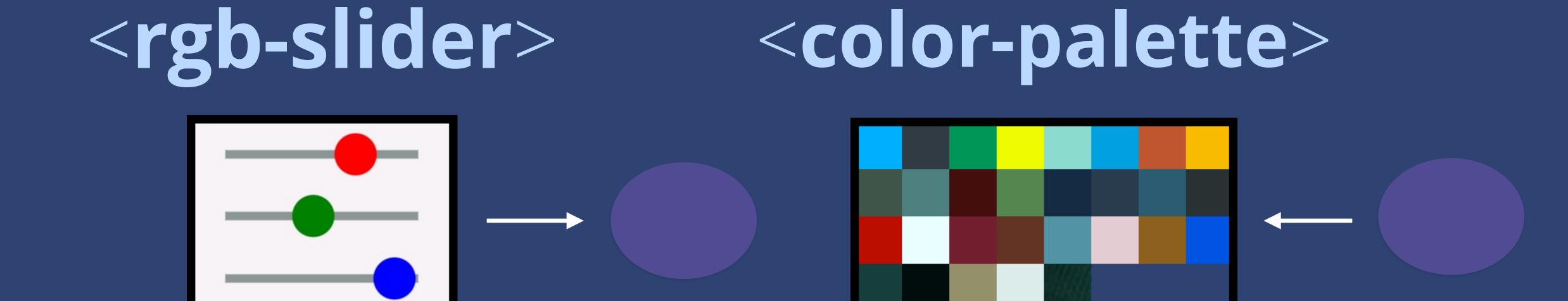




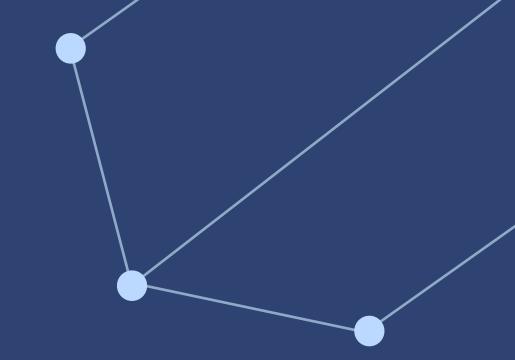




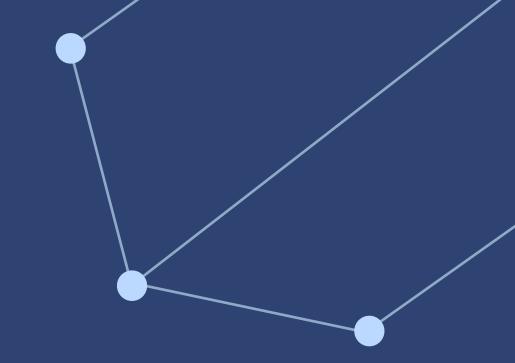














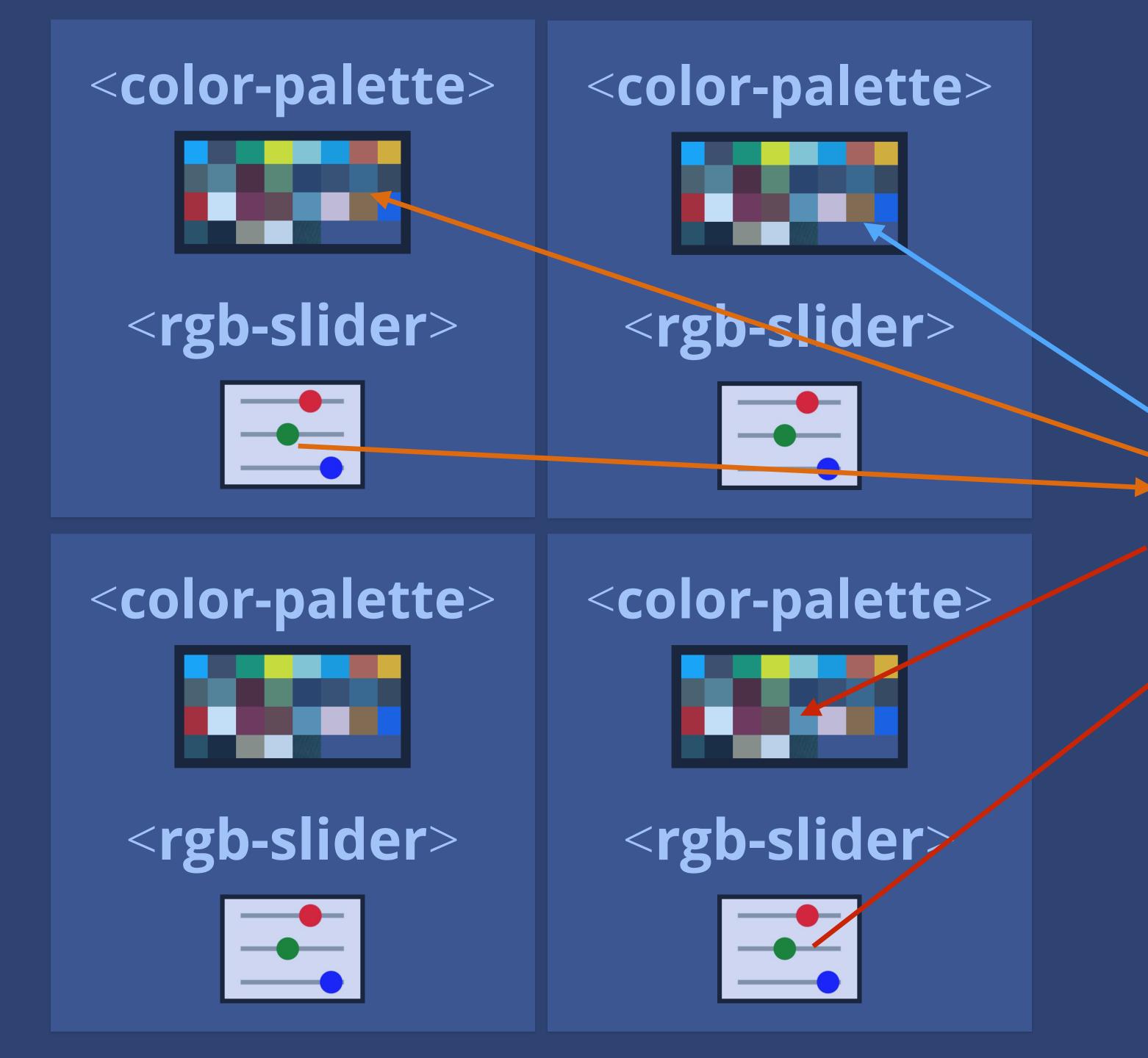








ColorFactory



ColorFactory

require

<div id="example" first-directive second-directive></div>

```
app.directive('firstDirective', function () {
    return {
        restrict: 'A',
        controller: function () {
            this.firstDirectiveSays = function (message) {
                console.log(message);
            };
```

```
app.directive('firstDirective', function () {
    return {
        restrict: 'A',
        controller: function () {
            this.firstDirectiveSays = function (message) {
                console.log(message);
            };
```

```
app.directive('secondDirective', function () {
    return {
        restrict: 'A',
        require: 'firstDirective',
        link: function (scope, element, attrs, firstDirCtrl) {
            var m = 'Hello from second directive!';
            firstDirCtrl.firstDirectiveSays(m);
```

```
<div id="example" first-directive second-directive></div>
```

```
app.directive('secondDirective', function () {
    return {
        restrict: 'A',
        require: 'firstDirective',
        link: function (scope, element, attrs, firstDirCtrl) {
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            firstDirCtrl.firstDirectiveSays(m);
```

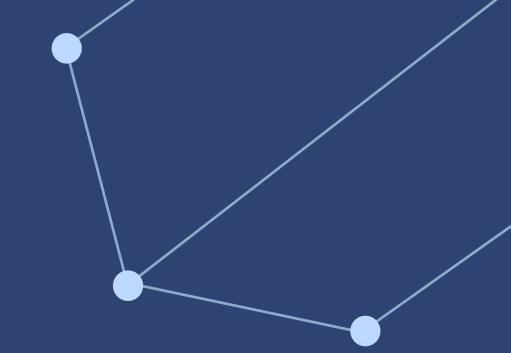
ngModelController

<input type="text" ng-model="search.text" />

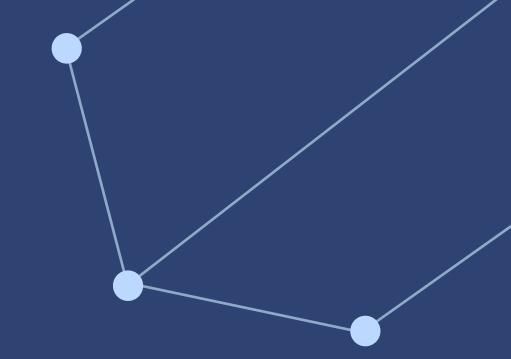
```
app.directive('myDirective', function () {
    return {
        require: 'ngModel',
        link: function (scope, element, attrs, ngModelCtrl) {
        }
    };
});
```

```
app.directive('myDirective', function () {
    return {
        require: 'ngModel',
        link: function (scope, element, attrs, ngModelCtrl) {
        }
    };
});
```

<input type="text" my-directive ng-model="search.text" />



Two-way Data Binding

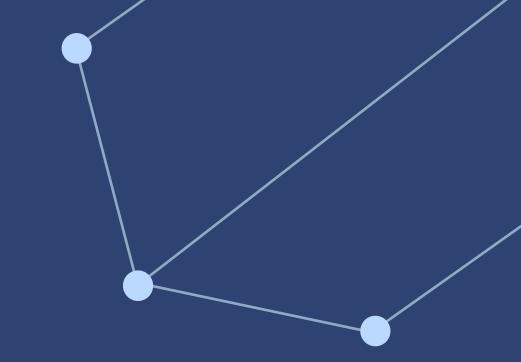


No input element works with Angular by default.

ng-model

\$viewValue

Value as it appears in the input



ng-model

\$viewValue

Value as it appears in the input

<input type="checkbox" ng-model="rememberMe" />

ng-model

\$viewValue

Value as it appears in the input

<input type="checkbox" ng-model="rememberMe" />

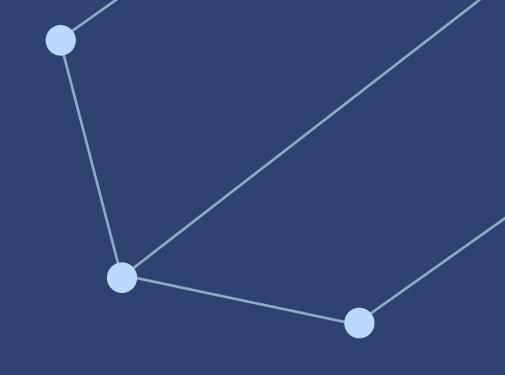


inputDOM.checked

\$viewValue

Value as it appears in the input

<input type="text" ng-model="username" />



\$viewValue

Value as it appears in the input

<input type="text" ng-model="username" />

Ĭ

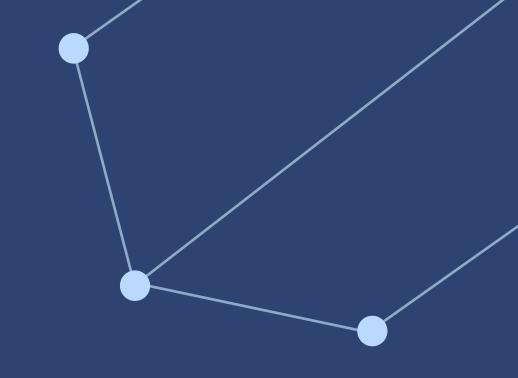
inputDOM.value

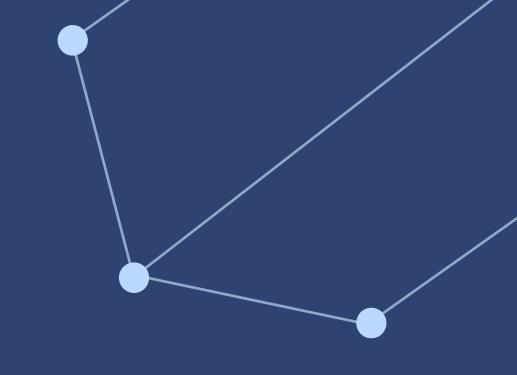
\$viewValue

Value as it appears in the input

```
<select ng-model="sortBy">
        <option>Song</option>
        <option>Artist</option>
        <option>Album</option>
</select>
```







\$viewValue

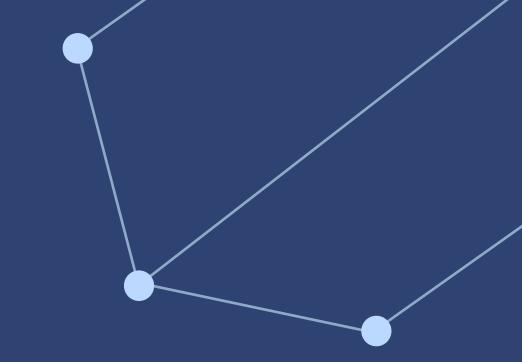
Value as it appears in the input

```
<select ng-model="sortBy">
        <option>Song
        <option>Artist</option>
        <option>Album</option>
</select>
```

selectDOM.options[selectDOM.selectedIndex].value

\$modelValue

Value as it appears on the scope

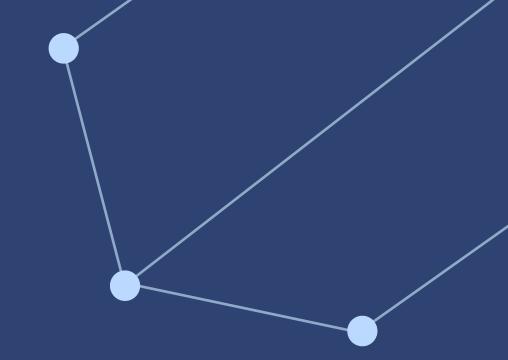


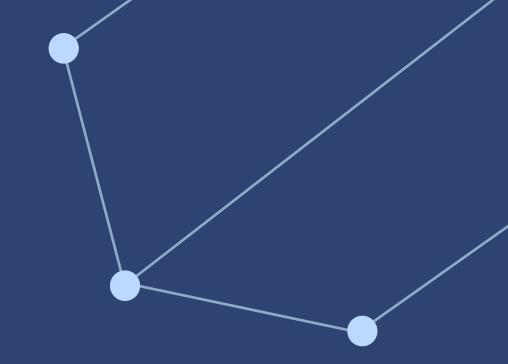
\$modelValue

Value as it appears on the scope

<input type="text" ng-model="username" />

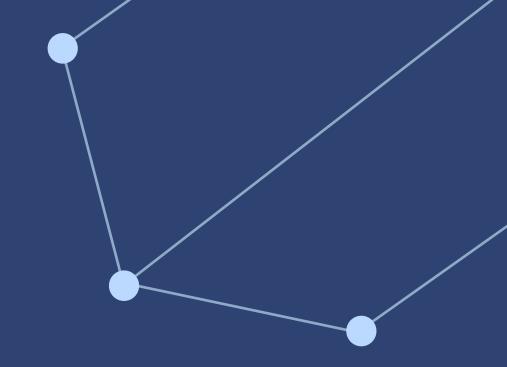
\$scope.username





____ \$viewValue ____ \$modelValue

1. Input changes in significant way



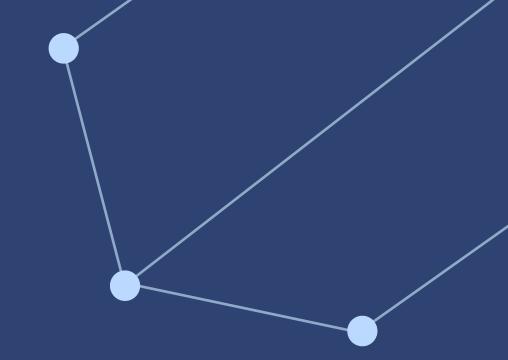


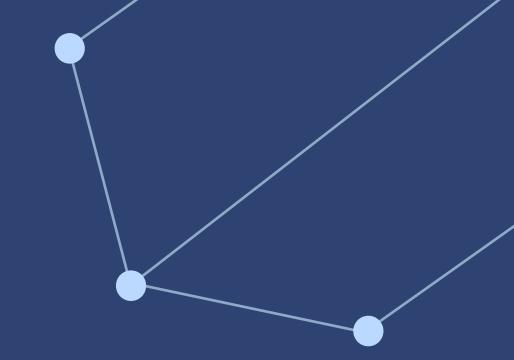
- 1. Input changes in significant way
- 2. \$setViewValue called with updated value



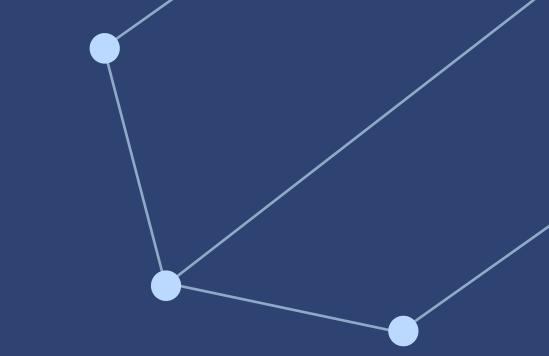
ctrl.\$setViewValue(element[0].checked, ev && ev.type);

```
element.on('change', function() {
   scope.$apply(function() {
      ngModelCtrl.$setViewValue(selectCtrl.readValue());
   });
});
```



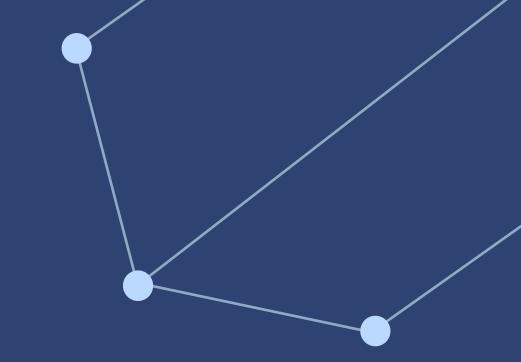


\$viewValue \$modelValue \$modelValue \$modelValue



\$viewValue

\$modelValue



1. \$watch on \$scope triggers change on \$modelValue



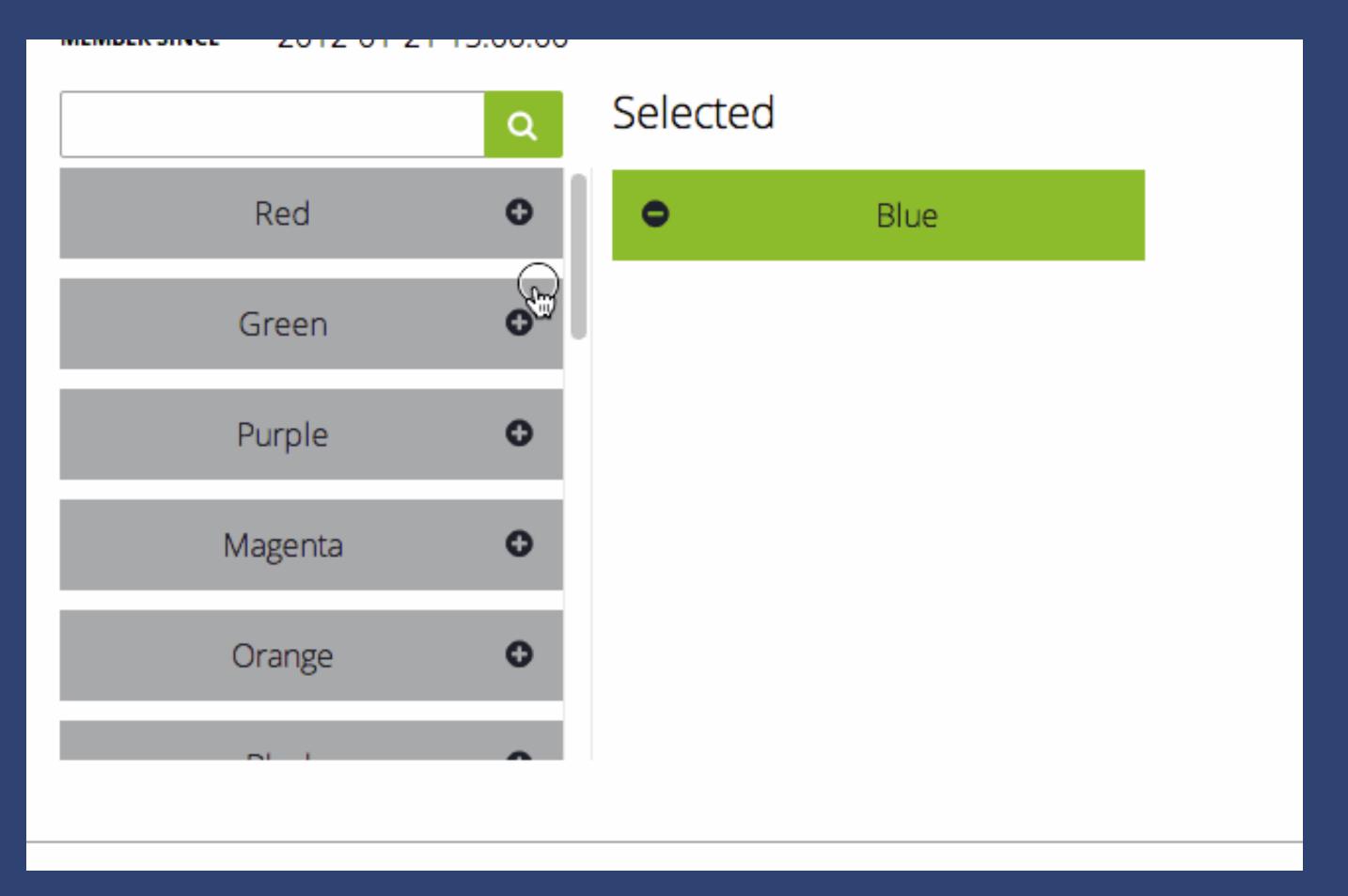


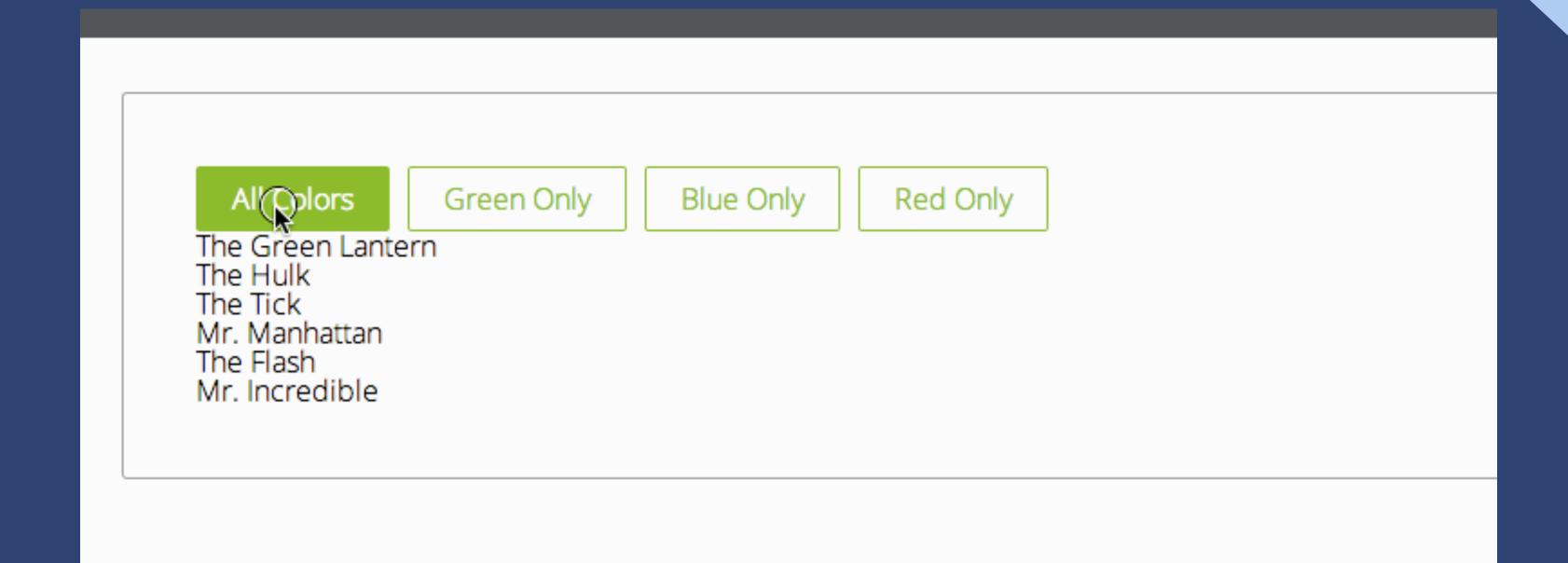
- 1. \$watch on \$scope triggers change on \$modelValue
- 2. Reflect new value in input (\$render function)

```
ctrl.$render = function() {
  element[0].checked = ctrl.$viewValue;
};
```

```
ctrl.$render = function() {
  element.val(ctrl.$isEmpty(ctrl.$viewValue) ? '' : ctrl.$viewValue);
};
```

```
ngModelCtrl.$render = function() {
   selectCtrl.writeValue(ngModelCtrl.$viewValue);
};
```







Thanks.