

# How to do Everything in AngularJS

## Prevent Route Change

1. Add `target="_self"` to all elements
2. Create new directive to prevent the defaults:

```
3. app.directive('a', function() {
    return {
        restrict: 'E',
        link: function(scope, elem, attrs) {
            if (attrs.ngClick || attrs.href === '' || attrs.href === '#') {
                elem.on('click', function(e) {
                    e.preventDefault();
                });
            }
        }
    };
});
```

## Updating Model Within Directives

```
App.directive('myDirective', function ($parse) {
    return {
        require: 'ngModel',
        link: function (scope, elm, attrs, ctrl) {
            ctrl.$setViewValue(newValue);
            ctrl.$render();
            e.preventDefault();
            scope.$apply();
        }
    };
});
```

# Making AngularJS Work with Bootstrap Vertical Button Group

```
<div class="btn-group-vertical" ng-class="{ 'active': selected}">
  <input type="checkbox" autocomplete="off" ng-checked="selected" />
</div>
```

## <Enter> Key Event Directive

JS:

```
app.directive('ngEnter', function () {
  return function (scope, element, attrs) {
    element.bind("keydown keypress", function (event) {
      if(event.which === 13) {
        scope.$apply(function () {
          scope.$eval(attrs.ngEnter);
        });
        event.preventDefault();
      }
    });
  };
});
```

HTML Usage:

```
<div ng-app="" ng-controller="MainCtrl">
  <input type="text" ng-enter="doSomething()">
</div>
```

## Passing Functions to Directives

HTML:

```
<test color1="color1" update-fn="updateFn(msg)"></test>
```

JS:

```
var app = angular.module('dr', []);

app.controller("testCtrl", function($scope) {
  $scope.color1 = "color";
  $scope.updateFn = function(msg) {
```

```
        alert(msg);
    }
});

app.directive('test', function() {
    return {
        restrict: 'E',
        scope: {
            color1: '=',
            updateFn: '&'
        },
        // object is passed while making the call
        template: "<button ng-click='updateFn({msg : \"Hello World! \\\"})'>Click</button>",
        replace: true,
        link: function(scope, elm, attrs) {
        }
    }
});
```

# Angular JS Best Practices

**1. Do not put the main controller into the main module, instead the main controller should be declared in a new module, this will make the application more modular e.g.**

```
angular.module('app', ['Controller'])
angular.module('Controller', []).controller('Controller', function($scope) {
    $scope.something = 100
})
```

**2. Do not call functions for ng-show and ng-hide directives, as it may degrade performance**

**3. Using too much \$scope.\$watch is going to degrade performance, try only watch what you really need to and remove the watchers when it's not needed anymore**

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Revision #1

Created 5 April 2017 21:52:32 by Tingwai

Updated 5 April 2017 22:10:10 by Tingwai