

A BEGINNER'S GUIDE

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**FROM JQUERY TO ANGULARJS**

# OVERVIEW

- ▶ Thank you jQuery
- ▶ Why move to AngularJS?
- ▶ Rethink front end development
- ▶ Planning your move from jQuery
- ▶ Example #1 - Show/Hide
- ▶ Example #2 - AJAX/REST API Calls
- ▶ Resources to learn AngularJS

# THANK YOU JQUERY

- ▶ jQuery has been our best friend since its inception
- ▶ IE6, IE7, IE8
- ▶ JavaScript without jQuery was not easy back in the day
- ▶ jQuery is still good and useful



## WHY ANGULARJS?

- ▶ Extending HTML and Templating
- ▶ Growing complexity of the front end
- ▶ Dependency injection
- ▶ Structure and order
- ▶ Maintainable code (no more jQuery spaghetti)
- ▶ Validation and other services
- ▶ Custom HTML elements and DOM manipulation with Directives
- ▶ Two Way Data Binding
- ▶ Strong and growing online open source community with many additional modules/services/directives



# RE-THINK FRONT END DEVELOPMENT

- ▶ When migrating a project from jQuery to AngularJS you are no longer manipulating the DOM but building an application from the ground up.
- ▶ Think about the application architecture and not just the design and user experience.
- ▶ What services will you need? What would be the controllers?



Side Analogy:

jQuery is the traditional taxi. AngularJS is Uber.

## PLANNING YOUR MOVE FROM JQUERY

- ▶ Should you migrate this to AngularJS?
- ▶ What jQuery plugins are you using?
- ▶ Do you have the budget and time?
- ▶ Is it worth it? Will there be new functionality and features that need to be added?

**EXAMPLE #1:**  
**SHOW/HIDE**

# EXAMPLE #1: SHOW/HIDE (JQUERY VERSION) – THE HTML

```
<div class="container">

  <div class="form-group">
    <label class="col-md-2 control-label text-right">Which side of The Force?</label>
    <div class="col-md-4">
      <div class="radio">
        <label for="side-light">
          <input class="which-side" type="radio" name="side" id="side-light" value="light" /> Light
        </label>
      </div>
      <div class="radio">
        <label for="side-dark">
          <input class="which-side" type="radio" name="side" id="side-dark" value="dark" /> Dark
        </label>
      </div>
    </div>
  </div>
  <div class="clearfix"></div>
  <div class="hidden dark-side-content">
    <h3>Welcome to the Dark Side!</h3>
    
  </div>

  <div class="hidden light-side-content">
    <h3>the Light Side, Welcome to!</h3>
    
  </div>

</div>
```



# EXAMPLE #1: SHOW/HIDE (JQUERY VERSION) – THE JAVASCRIPT

```
$(function() {  
  
    // We want to listen to every time the user select an answer  
    $('.which-side').on('click',function(event){  
  
        // The class 'which-side' is on all the radio inputs  
        // So when a user selects any choice this will be called  
  
        // Get the value of what the user selected  
        var value = $(this).val();  
  
        if ( value === "light"){  
            $('.light-side-content').removeClass('hidden');  
            $('.dark-side-content').addClass('hidden');  
        }  
  
        if ( value === "dark"){  
            $('.dark-side-content').removeClass('hidden');  
            $('.light-side-content').addClass('hidden');  
        }  
  
    });  
  
});
```

# EXAMPLE #1: SHOW/HIDE (ANGULARJS VERSION) – THE HTML

```
<div class="container" ng-controller="mainController">

  <div class="form-group">
    <label class="col-md-2 control-label text-right">Which side of The Force?</label>
    <div class="col-md-4">
      <div class="radio">
        <label for="side-light">
          <input class="which-side" type="radio" ng-model="side" id="side-light" value="light" />
Light
        </label>
      </div>
      <div class="radio">
        <label for="side-dark">
          <input class="which-side" type="radio" ng-model="side" id="side-dark" value="dark" /> Dark
        </label>
      </div>
    </div>
  </div>
  <div class="clearfix"></div>
  <div ng-show="side == 'dark'" class="dark-side-content">
    <h3>Welcome to the Dark Side!</h3>
    
  </div>

  <div ng-show="side == 'light'" class="light-side-content">
    <h3>the Light Side, Welcome to!</h3>
    
  </div>
</div>
```

# EXAMPLE #1: SHOW/HIDE (ANGULARJS VERSION) – THE JAVASCRIPT

```
var myApp = angular.module('myApp', []);  
  
myApp.controller('mainController', ['$scope', function($scope){  
  
  
}]);
```

# EXAMPLE #2:

## AJAX/REST API CALLS

# EXAMPLE #2: AJAX/REST API CALL (JQUERY VERSION) – THE HTML

```
<select class="form-control get-people">
  <option value="">Select one</option>
  <option value="light">Jedi Knights</option>
  <option value="dark">Sith Lords</option>
</select>

<ul class="list-unstyled people-list">
</ul>
```

# EXAMPLE #2: AJAX/REST API CALL (JQUERY VERSION) – THE JS

```
$(function() {  
  
    $('.get-people').on('change', function() {  
        var value = $(this).val();  
  
        if ( value == 'light' ){  
            $.ajax({  
                url: 'data/lightside.json',  
                success: function(data) {  
                    $('.people-list').html('');  
                    $.each(data, function(i, item) {  
                        $('.people-list').append('<li>' + item.name + '</li>');  
                    });  
                }  
            });  
        }  
  
        if ( value == 'dark' ){  
            $.ajax({  
                url: 'data/darkside.json',  
                success: function(data) {  
                    $('.people-list').html('');  
                    $.each(data, function(i, item) {  
                        $('.people-list').append('<li>' + item.name + '</li>');  
                    });  
                }  
            });  
        }  
  
        if (!value) {  
            $('.people-list').html('');  
        }  
    });  
});
```

### EXAMPLE #2: AJAX/REST API CALL (ANGULARJS VERSION) – THE HTML

```
<select class="form-control" ng-model="selected">
  <option value="">Select one</option>
  <option value="light">Jedi Knights</option>
  <option value="dark">Sith Lords</option>
</select>
<ul class="list-unstyled" ng-show="selected">
  <li ng-repeat="person in data">{{person.name}}</li>
</ul>
```

# EXAMPLE #2: AJAX/REST API CALL (ANGULARJS VERSION) – THE JS

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

myApp.controller('mainController', ['$scope', '$http', function($scope, $http){

    $scope.$watch('selected',function(newValue, oldValue){

        if ( newValue == 'light' ) {

            $http.get('data/lightside.json').
                success(function(data, status, headers, config) {

                    $scope.data = data;
                });

        }

        if ( newValue == 'dark' ){

            $http.get('data/darkside.json').
                success(function(data, status, headers, config) {

                    $scope.data = data;
                });

        }

    });

}]);
```



## RESOURCES TO LEARN ANGULARJS

- ▶ [angularjs.org](https://angularjs.org) - Documentation helped me understand all the available services and modules.
- ▶ udemy - Various AngularJS courses that show you examples and help you build applications with AngularJS
- ▶ Stack Overflow - Helpful answers. Almost every question I had was asked. (If not, you can ask)
- ▶ Google - There is a tremendous amount of information on the web.



**THANK YOU.  
ANY QUESTIONS?**

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