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AngularJS Custom-Directives link-function guide

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ANGULARJS



AngularJS Directive's link key defines link function for the directive. Precisely, using link function, we can define directive's API & functions that can then be used by directive to preform some business logic. The link function is also responsible for registering DOM listeners as well as updating the DOM. It is executed after the template has been cloned.

This post is a part of AngularJS Directives Tutorial Series.

link function gets executed for each instance of directive so that each instance gets it's own business-logic without affecting others. If we need to add functionality to our instance of the directive, we can add it to the scope of the element we're working with. AngularJS passes several arguments to the link function, which looks like following:

link: function(scope, element, attrs) {
...
}







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scope : It is the scope of the element the directive is applied on. Note that scope is not injected but passed in. element : It is the DOM element in HTML the directive is applied on. attrs : These are the list of attributes as string available on the element in HTML.

There are other optional arguments available in link function for more advanced usage. Like:



<u>controller</u>: It specifies the directive's required controller instance(s) or its own controller (if any). The exact value depends on the directive's require property. That controller itself is defined in directive function using <u>require</u> key.

<u>transcludeFn</u>: It is a transclude linking function pre-bound to the correct transclusion scope.

In this post, we will discuss the basic usages of link function. Advanced usage will be discussed in detail in post Directive's Controller & require option.

Let's see an example to learn in detail. We will build on the example from previous post.

Live Example:

This example shows how we can take advantage of link function to perform DOM manipulation via adding event listeners.

List of Sale Items.	
Published at:01/11/2015 Promotion: Christmas-Sale	Buy me
Name:Computer Condition:New Price:\$500.00 Brand:Lenovo	
Published at:02/11/2015 Promotion: Christmas-Sale	Buy me
Name:Phone Condition:New Price:\$200.00 Brand:Samsung	
Published at:06/11/2015 Promotion: Christmas-Sale	Buy me
Name:Printer Condition:New Price:\$300.00 Brand:Brother	
Dublished at 01/12/2015 Dromotion: Christmas, Sale	Power

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Name: Dishwasher Condition: Second-Hand Price: \$250.00 Brand: WhirlPool

Now as soon as we click on an item, it gets replaced with a demo message[in addition to logging on console]. Simple DOM manipulation. Let's see how we do it.

First thing to be noticed is the inclusion of **link function**. In this example, we are playing with DOM manipulation. We have kept the logic of DOM manipulation in our link function. Once an item is clicked, we apply CSS on that specific item and replace it's content by a dummy message. Interestingly, each element get's it's business logic executed independent of others.

Complete code for this example is shown below:



```
<html>
   <head>
        <title>Directive Demo</title>
        <link rel="stylesheet" href="<a class="vglnk" href="https://maxcdn.bootstrapcdn.com/bootstrap/3</pre>
    <body class="jumbotron container" ng-app="myApp">
        <div ng-controller="AppController as ctrl">
            <h3>List of Sale Items.</h3>
            <div ng-repeat="bla in ctrl.items">
                <item-widget item="bla" promo="Christmas-Sale" on-select="ctrl.onItemSelect(selectedIte</pre>
            </div>
        </div>
        <script src="<a class="vglnk" href="https://ajax.googleapis.com/ajax/libs/angularjs/1.4.4/angul</pre>
        </script>
        <script>
            angular.module('myApp', [])
            .controller('AppController', [function() {
                var self = this;
                self.items = [
                             {name: 'Computer', price: 500, condition:'New',brand : 'Lenovo', published:
                             {name: 'Phone', price: 200, condition:'New',brand : 'Samsung', published:'@
                             name: 'Printer', price: 300, condition:'New',brand: 'Brother', published:
                             name: 'Dishwasher', price: 250, condition:'Second-Hand',brand : 'WhirlPool'
                self.onItemSelect = function(name) {
                    console.log('Congrats. You have just bought a', name);
```

```
.directive('itemWidget', [function() {
                return{
                    restrict: 'E',
                    scope: {
                        item: '='
                        promo: '@',
                        pickMe : '&onSelect'
                    templateUrl: 'saleItem3.html',
                    link : function(scope, element, attrs){
                            //Add event listener for 'click' event
                        element.on('click', function(event) {
                                element.html('Thanks for buying this item.');
                                element.css({
                                    color: 'green'
                                });
            }]);
        </script>
    </body>
</html>
```

And the template-partial [saleItem3.html] is:

This was a trivial example on using link-function. You can do a lot with link function knowing that each element get's it's business logic executed independent of others.

Advanced Usage

Advanced usage of link function involves the other parameters including controller & transcludeFn. transcludeFn is used for more exotic situations while controller is a medium for inter-directive communication. Post Directives controllers & require option discusses them in detail.

That's it for link option. Let's move to next configuration option [replace] of Directive Definition Object, which can be used to replace the container element altogether by directive's actual content HTML.

Next Topic : AngularJS Directives replace option

Please note that if your AngularJS application is using **templateUrl** to access HTML partials, you will need an HTTP server on front to serve them. This is due to the fact that Browser's does not allow serving or requesting files on the file://protocol.

You can use popular Apache HTTP server to serve files. If you need assistance setting-up server, this post can help you.

Download Source Code

Download Now!

References

- AngularJS Directive Official Reference Documentation
- AngularJS Official Reference Documentation



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