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## Angular JS Interview Questions and Answers

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### Ques 11. What is a scope in AngularJS?

**Ans.** scope is an object that refers to the application model. It is the glue between application controller and the view. Both the controllers and directives have reference to the scope, but not with each other. It is an execution context for expressions and arranged in hierarchical structure. Scopes can watch expressions and propagate events.

Is it helpful?  Yes  No      [Add Comment](#)      [View Comments](#)

### Ques 12. Can you explain the concept of scope hierarchy? How many scopes can an application have?

**Ans.**

Each Angular application has exactly one root scope, but may have several child scopes. The application can have multiple scopes, because child controllers and some directives create new child scopes. When new scopes are created, they are added as children of their parent scope. This creates a hierarchical structure similar to the DOM where they're attached.

When Angular evaluates a bound variable like say {{firstName}}, it first looks at the scope associated with the given element for the firstName property. If no such property is found, it searches the parent scope and so on until the root scope is reached. In JavaScript this behaviour is known as prototypical inheritance, and child scopes prototypically inherit from their parents. The reverse is not true. i.e. the parent can't see its children's bound properties.

Is it helpful?  Yes  No      [Add Comment](#)      [View Comments](#)

### Ques 13. Is AngularJS a templating system?

**Ans.** At the highest level, Angular does look like a just another **templating** system. But there is one important reason why the Angular templating system is different, that makes it very good fit for application development: bidirectional data binding. The template is compiled in the browser and the compilation step produces a live view. This means you, the developers, don't need to write code to constantly sync the view with the model and the model with the view as in other templating systems.

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### Ques 14. Do I need to worry about security holes in AngularJS?

**Ans.**

Like any other technology, AngularJS is not impervious to attack. Angular does, however, provide built-in protection from basic security holes including cross-site scripting and HTML injection attacks. AngularJS does round-trip escaping on all strings for you and even offers CSRF protection for server-side communication.

AngularJS was designed to be compatible with other security measures like Content Security Policy (CSP), HTTPS (SSL/TLS) and server-side authentication and authorization that greatly reduce the possible attack vectors and we highly recommended their use.

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### Ques 15. What are the key differences between AngularJS and jQuery?

**Ans.**



### Exams Attended

Mock Exams
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EJB ( <a href="#">OnlineTestStart.php?quizId=17&amp;quiz=EJB Online Practice Test   Online Exam</a> )
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SCWCD ( <a href="#">OnlineTestStart.php?quizId=69&amp;quiz=SCWCD Online Practice Test   Online Exam</a> )
J2ME ( <a href="#">OnlineTestStart.php?quizId=73&amp;quiz=J2ME Online Practice Test   Online Exam</a> )
Java Swing <a href="#">(OnlineTestStart.php?)</a>

Answers)		AngularJS and jQuery are the Javascript frameworks and are different with each other, so never mix up the AngularJS and jQuery code in your project. Use only one Javascript framework at a time. If you are starting a new project, must consider AngularJS over jQuery. If you are a experienced jQuery developer, then you have to invest some time to work in AngularJS way. There are a lot of difference between AngularJS and jQuery.	quizId=94&quiz=Java Swing Online Practice Test   Online Exam)
Apache Tapestry (Technology.php? tech=67&subject=Apache Tapestry Interview Questions and Answers)	9	<b>1. Web designing approach in jQuery and AngularJS</b>	.NET
JPA (Technology.php? tech=47&subject=JPA Interview Questions and Answers)	14	In jQuery, you design a page, and then you make it dynamic. This is because jQuery was designed for augmentation and has grown incredibly from that simple premise.	Microsoft .NET (OnlineTestStart.php? quizId=5&quiz=Microsoft .NET Online Practice Test   Online Exam)
Web Services (Technology.php? tech=20&subject=Web Services Interview Questions and Answers)	10	But in AngularJS, you must start from the ground up with your architecture in mind. Instead of starting by thinking "I have this piece of the DOM and I want to make it do X", you have to start with what you want to accomplish, then go about designing your application, and then finally go about designing your view.	ASP.Net (OnlineTestStart.php? quizId=70&quiz=ASP.Net Online Practice Test   Online Exam)
Java Applet (Technology.php? tech=38&subject=Java Applet Interview Questions and Answers)	29	<b>2. Don't augment jQuery with AngularJS</b>	C#.NET (OnlineTestStart.php? quizId=71&quiz=C#.NET Online Practice Test   Online Exam)
GWT (Technology.php? tech=52&subject=GWT Interview Questions and Answers)	27	Similarly, don't start with the idea that jQuery does X, Y, and Z, so I'll just add AngularJS on top of that for models and controllers. This is really tempting when you're just starting out, which is why I always recommend that new AngularJS developers don't use jQuery at all, at least until they get used to doing things the "Angular Way".	VB.Net (OnlineTestStart.php? quizId=72&quiz=VB.Net Online Practice Test   Online Exam)
RMI (Technology.php? tech=36&subject=RMI Interview Questions and Answers)	31	I've seen many developers here and on the mailing list create these elaborate solutions with jQuery plugins of 150 or 200 lines of code that they then glue into AngularJS with a collection of callbacks and \$applys that are confusing and convoluted; but they eventually get it working! The problem is that in most cases that jQuery plugin could be rewritten in AngularJS in a fraction of the code, where suddenly everything becomes comprehensible and straightforward.	Database
Log4j (Technology.php? tech=64&subject=Log4j Interview Questions and Answers)	8	The bottom line is this: when solutioning, first "think in AngularJS"; if you can't think of a solution, ask the community; if after all of that there is no easy solution, then feel free to reach for the jQuery. But don't let jQuery become a crutch or you'll never master AngularJS.	Microsoft SQL Server (OnlineTestStart.php? quizId=50&quiz=Microsoft SQL Server Online Practice Test   Online Exam)
JSF (Technology.php? tech=37&subject=JSF Interview Questions and Answers)	24	<b>3. Always think in terms of architecture</b>	Database Administration (OnlineTestStart.php? quizId=51&quiz=Database Administration Online Practice Test   Online Exam)
JBoss (Technology.php? tech=48&subject=JBoss Interview Questions and Answers)	14	First know that single-page applications are applications. They're not webpages. So we need to think like a server-side developer in addition to thinking like a client-side developer. We have to think about how to divide our application into individual, extensible, testable components.	Microsoft Access (OnlineTestStart.php? quizId=63&quiz=Microsoft Access Online Practice Test   Online Exam)
Java Design Patterns (Technology.php? tech=56&subject=Java Design Patterns Interview Questions and Answers)	15	So then how do you do that? How do you "think in AngularJS"? Here are some general principles, contrasted with jQuery.	SQL (OnlineTestStart.php? quizId=15&quiz=SQL Online Practice Test   Online Exam)
JSP (Technology.php? tech=2&subject=JSP Interview Questions and Answers)	49	The view is the "official record"	MySQL (OnlineTestStart.php? quizId=31&quiz=MySQL Online Practice Test   Online Exam)
JMS (Technology.php? tech=21&subject=JMS Interview Questions and Answers)	64	In jQuery, we programmatically change the view. We could have a dropdown menu defined as a ul like so:	Data Warehousing (OnlineTestStart.php? quizId=52&quiz=Data Warehousing Online Practice Test   Online Exam)
Java Swing (Technology.php? tech=39&subject=Java Swing Interview Questions and Answers)	27	<ul class="main-menu"> <li class="active"> <a href="#/home">Home</a> </li> <li> <a href="#/menu1">Menu 1</a> <ul> <li><a href="#/sm1">Submenu 1</a></li> <li><a href="#/sm2">Submenu 2</a></li> <li><a href="#/sm3">Submenu 3</a></li> </ul> </li> </ul>	DBMS (OnlineTestStart.php? quizId=80&quiz=DBMS Online Practice Test   Online Exam)
J2EE (Technology.php? tech=34&subject=J2EE Interview Questions and Answers)	25	<li> <a href="#">Menu 2</a> </li> </ul>	ORACLE (OnlineTestStart.php? quizId=20&quiz=ORACLE Online Practice Test   Online Exam)
Spring Framework (Technology.php? tech=23&subject=Spring Framework Interview Questions and Answers)	53	</ul>	Scripting Language
Google Gson (Technology.php? tech=62&subject=Google	8	<ul> <li> <a href="#/home">Menu 2</a> </li> </ul>	JavaScript (OnlineTestStart.php? quizId=14&quiz=JavaScript Online Practice Test   Online Exam)
		In jQuery, in our application logic, we would activate it with something like:	Ajax (OnlineTestStart.php? quizId=79&quiz=Ajax Online Practice Test   Online Exam)
			jQuery (OnlineTestStart.php? quizId=85&quiz=jQuery

Gson Interview Questions and Answers)		Online Practice Test   Online Exam
RichFaces 26 (Technology.php?tech=53&subject=RichFaces Interview Questions and Answers)	\$('main-menu').dropdownMenu();  When we just look at the view, it's not immediately obvious that there is any functionality here. For small applications, that's fine. But for non-trivial applications, things quickly get confusing and hard to maintain.	Computer Basics  UNIX (OnlineTestStart.php?quizId=38&quiz=UNIX Online Practice Test   Online Exam)
.NET  Microsoft .NET 60 (Technology.php?tech=14&subject=Microsoft .NET Interview Questions and Answers)	In AngularJS, though, the view is the official record of view-based functionality. Our ul declaration would look like this instead:  <ul class="main-menu" dropdown-menu> ... </ul>	Microsoft Excel (OnlineTestStart.php?quizId=62&quiz=Microsoft Excel Online Practice Test   Online Exam)
ASP .NET 31 (Technology.php?tech=18&subject=ASP .NET Interview Questions and Answers)	These two do the same thing, but in the AngularJS version anyone looking at the template knows what's supposed to happen. Whenever a new member of the development team comes on board, he can look at this and then know that there is a directive called dropdownMenu operating on it; he doesn't need to intuit the right answer or sift through any code. The view told us what was supposed to happen. Much cleaner.	Computer Hardware (OnlineTestStart.php?quizId=34&quiz=Computer Hardware Online Practice Test   Online Exam)
C# (Technology.php?tech=29&subject=C# Interview Questions and Answers)	Developers new to AngularJS often ask a question like: how do I find all links of a specific kind and add a directive onto them. The developer is always flabbergasted when we reply: you don't. But the reason you don't do that is that this is like half-jQuery, half-AngularJS, and no good. The problem here is that the developer is trying to "do jQuery" in the context of AngularJS. That's never going to work well. The view is the official record. Outside of a directive (more on this below), you never, ever, never change the DOM. And directives are applied in the view, so intent is clear.	Linux (OnlineTestStart.php?quizId=39&quiz=Linux Online Practice Test   Online Exam)
Database  Oracle (Technology.php?tech=43&subject=Oracle Interview Questions and Answers)	Remember: don't design, and then mark up. You must architect, and then design.	Microsoft Word (OnlineTestStart.php?quizId=55&quiz=Microsoft Word Online Practice Test   Online Exam)
MSSQL (Technology.php?tech=32&subject=MSSQL Interview Questions and Answers)	Data binding	Computer Organization (OnlineTestStart.php?quizId=67&quiz=Computer Organization Online Practice Test   Online Exam)
SQL (Technology.php?tech=30&subject=SQL Interview Questions and Answers) 152	This is by far one of the most awesome features of AngularJS and cuts out a lot of the need to do the kinds of DOM manipulations I mentioned in the previous section. AngularJS will automatically update your view so you don't have to! In jQuery, we respond to events and then update content. Something like:	Operating System (OnlineTestStart.php?quizId=35&quiz=Operating System Online Practice Test   Online Exam)
DBMS (Technology.php?tech=55&subject=DBMS Interview Questions and Answers) 73	S.ajax({ url: '/myEndpoint.json', success: function ( data, status ) { \$('ul#log').append('<li>Data Received!</li>'); }; });	Computer Networking (OnlineTestStart.php?quizId=40&quiz=Computer Networking Online Practice Test   Online Exam)
MySQL 108 (Technology.php?tech=31&subject=MySQL Interview Questions and Answers)	For a view that looks like this:	Microsoft PowerPoint (OnlineTestStart.php?quizId=64&quiz=Microsoft PowerPoint Online Practice Test   Online Exam)
Scripting Language  jQuery (Technology.php?tech=16&subject=jQuery Interview Questions and Answers) 22	<ul class="messages" id="log"></ul>	Window 2003 Server (OnlineTestStart.php?quizId=76&quiz=Window 2003 Server Online Practice Test   Online Exam)
Ajax (Technology.php?tech=24&subject=Ajax Interview Questions and Answers) 58	Apart from mixing concerns, we also have the same problems of signifying intent that I mentioned before. But more importantly, we had to manually reference and update a DOM node. And if we want to delete a log entry, we have to code against the DOM for that too. How do we test the logic apart from the DOM? And what if we want to change the presentation?	Computer basics (OnlineTestStart.php?quizId=16&quiz=Computer basics Online Practice Test   Online Exam)
Angular JS 21 (Technology.php?tech=63&subject=Angular JS Interview Questions and Answers)	This a little messy and a trifle frail. But in AngularJS, we can do this:	DOS (OnlineTestStart.php?quizId=36&quiz=DOS Online Practice Test   Online Exam)
JavaScript 59 (Technology.php?tech=8&subject=JavaScript Interview Questions and Answers)	Shttp('/myEndpoint.json').then(function ( response ) { \$scope.log.push( { msg: 'Data Received!' } ); });	Data Structures (OnlineTestStart.php?quizId=65&quiz=Data Structures Online Practice Test   Online Exam)
Dojo (Technology.php?tech=54&subject=Dojo Interview Questions and Answers) 23	And our view can look like this:	CCNA (OnlineTestStart.php?quizId=77&quiz=CCNA Online Practice Test   Online Exam)
ASP (Technology.php?tech=17&subject=ASP 82)	<ul class="messages"> <li ng-repeat="entry in log">{{ entry.msg }}</li> </ul>	More  Sentence Ordering

Interview Questions and Answers)		(OnlineTestStart.php?quizId=25&quiz=Sentence Ordering Online Practice Test   Online Exam)
ExtJS (Technology.php?tech=65&subject=ExtJS Interview Questions and Answers)	50	But for that matter, our view could look like this:
PHP (Technology.php?tech=6&subject=PHP Interview Questions and Answers)	27	<pre>&lt;div class="messages"&gt; &lt;div class="alert" ng-repeat="entry in log"&gt;   {{ entry.msg }} &lt;/div&gt; &lt;/div&gt;</pre> <p>And now instead of using an unordered list, we're using Bootstrap alert boxes. And we never had to change the controller code! But more importantly, no matter where or how the log gets updated, the view will change too. Automatically. Neat!</p>
Computer Basics		Though I didn't show it here, the data binding is two-way. So those log messages could also be editable in the view just by doing this:
Computer Basics (Technology.php?tech=25&subject=Computer Basics Interview Questions and Answers)	62	<pre>&lt;input ng-model="entry.msg" /&gt;.</pre> <p>And there was much rejoicing.</p>
Operating System (Technology.php?tech=26&subject=Operating System Interview Questions and Answers)	22	Distinct model layer
Computer Networking (Technology.php?tech=27&subject=Computer Networking Interview Questions and Answers)	65	In jQuery, the DOM is kind of like the model. But in AngularJS, we have a separate model layer that we can manage in any way we want, completely independently from the view. This helps for the above data binding, maintains separation of concerns, and introduces far greater testability. Other answers mentioned this point, so I'll just leave it at that.
Tips and Tricks (Technology.php?tech=40&subject=Tips and Tricks Interview Questions and Answers)	30	Separation of concerns
Microsoft Excel (Technology.php?tech=60&subject=Microsoft Excel Interview Questions and Answers)	36	And all of the above tie into this over-arching theme: keep your concerns separate. Your view acts as the official record of what is supposed to happen (for the most part); your model represents your data; you have a service layer to perform reusable tasks; you do DOM manipulation and augment your view with directives; and you glue it all together with controllers. This was also mentioned in other answers, and the only thing I would add pertains to testability, which I discuss in another section below.
More		Dependency injection
Language in C (Technology.php?tech=11&subject=Language in C Interview Questions and Answers)	80	To help us out with separation of concerns is dependency injection (DI). If you come from a server-side language (from Java to PHP) you're probably familiar with this concept already, but if you're a client-side guy coming from jQuery, this concept can seem anything from silly to superfluous to hipster. But it's not.
XML (Technology.php?tech=15&subject=XML Interview Questions and Answers)	25	From a broad perspective, DI means that you can declare components very freely and then from any other component, just ask for an instance of it and it will be granted. You don't have to know about loading order, or file locations, or anything like that. The power may not immediately be visible, but I'll provide just one (common) example: testing.
Ruby On Rails (Technology.php?tech=59&subject=Ruby On Rails Interview Questions and Answers)	74	Let's say in our application, we require a service that implements server-side storage through a REST API and, depending on application state, local storage as well. When running tests on our controllers, we don't want to have to communicate with the server - we're testing the controller, after all. We can just add a mock service of the same name as our original component, and the injector will ensure that our controller gets the fake one automatically - our controller doesn't and needn't know the difference.
JSON (Technology.php?tech=50&subject=JSON Interview Questions and Answers)	16	<b>4. Test-driven development</b>
HTML (Technology.php?tech=9&subject=HTML Interview Questions and Answers)	27	This is really part of section 3 on architecture, but it's so important that I'm putting it as its own top-level section.
Python (Technology.php?tech=45&subject=Python Interview Questions and Answers)	15	Out of all of the many jQuery plugins you've seen, used, or written, how many of them had an accompanying test suite? Not very many because jQuery isn't very amenable to that. But AngularJS is.
Data Structures (Technology.php?tech=13&subject>Data Structures Interview Questions and Answers)	49	In jQuery, the only way to test is often to create the component independently with a sample/demo page against which our tests can perform DOM manipulation. So then we have to develop a component separately and then integrate it into our application. How inconvenient! So much of the time, when developing with jQuery, we opt for iterative instead of test-driven development. And who could blame us?
C++ (Technology.php?tech=63&page=3&subject=Angular%20JS%20Interview%20Questions%20and%20Answers)	142	(Android (OnlineTestStart.php?quizId=82&quiz=Android Online Practice Test   Online Exam)
		Railway Recruitment (OnlineTestStart.php?quizId=87&quiz=Railway Recruitment Online Practice Test   Online Exam)
		Nursing (OnlineTestStart.php?quizId=91&quiz=Nursing Online Practice Test   Online Exam)
		Word Ordering (OnlineTestStart.php?quizId=26&quiz=Word Ordering Online Practice Test   Online Exam)
		English Vocabulary (OnlineTestStart.php?quizId=23&quiz=English Vocabulary Online Practice Test   Online Exam)
		Analogous Pair (OnlineTestStart.php?quizId=27&quiz=Analogous Pair Online Practice Test   Online Exam)
		Medical Surgery (OnlineTestStart.php?quizId=68&quiz=Medical Surgery Online Practice Test   Online Exam)
		India Law Entrance (OnlineTestStart.php?quizId=89&quiz=India Law Entrance Online Practice Test   Online Exam)
		Bootstrap (OnlineTestStart.php?quizId=93&quiz=Bootstrap Online Practice Test   Online Exam)
		Easy Mathematics (OnlineTestStart.php?quizId=24&quiz=Easy Mathematics Online Practice Test   Online Exam)
		Word Series (OnlineTestStart.php?quizId=28&quiz=Word Series Online Practice Test   Online Exam)
		PEGA (OnlineTestStart.php?quizId=81&quiz=PEGA Online Practice Test   Online Exam)
		Bank PO (OnlineTestStart.php?quizId=86&quiz=Bank PO Online Practice Test   Online Exam)
		Medical Entrance (OnlineTestStart.php?quizId=90&quiz=Medical Entrance Online Practice Test   Online Exam)

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CSS (Technology.php? tech=10&subject=CSS Interview Questions and Answers)	74
ANT (Technology.php? tech=49&subject=ANT Interview Questions and Answers)	10
Unix (Technology.php? tech=28&subject=Unix Interview Questions and Answers)	105

But because we have separation of concerns, we can do test-driven development iteratively in AngularJS! For example, let's say we want a super-simple directive to indicate in our menu what our current route is. We can declare what we want in our view:

```
<a href="/hello" when-active>Hello</a>
```

Okay, now we can write a test:

```
it('should add "active" when the route changes', inject(function() {
  var elm = $compile('<a href="/hello" when-active>Hello</a>')($scope);
```

```
$location.path('/not-matching');
expect(elm.hasClass('active')).toBeFalsy();
```

```
$location.path('/hello');
expect(elm.hasClass('active')).toBeTruthy();
});
```

We run our test and confirm that it fails. So now we can write our directive:

```
.directive('whenActive', function ($location) {
  return {
    scope: true,
    link: function (scope, element, attrs) {
      scope.$on('$routeChangeSuccess', function () {
        if ($location.path() == element.attr('href')) {
          element.addClass('active');
        } else {
          element.removeClass('active');
        }
      });
    }
  };
});
```

Our test now passes and our menu performs as requested. Our development is both iterative and test-driven.

## 5. Conceptually, directives are not packaged jQuery

You'll often hear "only do DOM manipulation in a directive". This is a necessity. Treat it with due deference!

But let's dive a little deeper...

Some directives just decorate what's already in the view (think ngClass) and therefore sometimes do DOM manipulation straight away and then are basically done. But if a directive is like a "widget" and has a template, it should also respect separation of concerns. That is, the template too should remain largely independent from its implementation in the link and controller functions.

AngularJS comes with an entire set of tools to make this very easy; with ngClass we can dynamically update the class; ngBind allows two-way data binding; ngShow and ngHide programmatically show or hide an element; and many more - including the ones we write ourselves. In other words, we can do all kinds of awesomeness without DOM manipulation.

The less DOM manipulation, the easier directives are to test, the easier they are to style, the easier they are to change in the future, and the more re-usable and distributable they are.

I see lots of developers new to AngularJS using directives as the place to throw a bunch of jQuery. In other words, they think "since I can't do DOM manipulation in the controller, I'll take that code put it in a directive". While that certainly is much better, it's often still wrong.

Think of the logger we programmed in section 3. Even if we put that in a directive, we still want to do it the "Angular

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"Way". It still doesn't take any DOM manipulation! There are lots of times when DOM manipulation is necessary, but it's a lot rarer than you think! Before doing DOM manipulation anywhere in your application, ask yourself if you really need to. There might be a better way.

Here's a quick example that shows the pattern I see most frequently. We want a toggleable button. (Note: this example is a little contrived and a skosh verbose to represent more complicated cases that are solved in exactly the same way.)

```
.directive('myDirective', function () {
  return {
    template: '<a class="btn">Toggle me!</a>',
    link: function ( scope, element, attrs ) {
      var on = false;

      $element.click( function () {
        if( on ) {
          $element.removeClass( 'active' );
        }
        else {
          $element.addClass( 'active' );
        }
      });

      on = !on;
    });
  };
});
```

There are a few things wrong with this. First, jQuery was never necessary. There's nothing we did here that needed jQuery at all! Second, even if we already have jQuery on our page, there's no reason to use it here; we can simply use angular.element and our component will still work when dropped into a project that doesn't have jQuery. Third, even assuming jQuery was required for this directive to work, jqLite (angular.element) will always use jQuery if it was loaded! So we needn't use the \$ - we can just use angular.element. Fourth, closely related to the third, is that jqLite elements needn't be wrapped in \$ - the element that is passed to the link function would already be a jQuery element! And fifth, which we've mentioned in previous sections, why are we mixing template stuff into our logic?

This directive can be rewritten (even for very complicated cases!) much more simply like so:

```
.directive('myDirective', function () {
  return {
    scope: true,
    template: '<a class="btn" ng-class="{active: on}" ng-click="toggle()>Toggle me!</a>',
    link: function ( scope, element, attrs ) {
      scope.on = false;

      scope.toggle = function () {
        scope.on = !scope.on;
      };
    };
  };
});
```

Again, the template stuff is in the template, so you (or your users) can easily swap it out for one that meets any style necessary, and the logic never had to be touched.

And there are still all those other benefits, like testing - it's easy! No matter what's in the template, the directive's internal API is never touched, so refactoring is easy. You can change the template as much as you want without touching the directive. And no matter what you change, your tests still pass.

So if directives aren't just collections of jQuery-like functions, what are they? Directives are actually extensions of HTML. If HTML doesn't do something you need it to do, you write a directive to do it for you, and then use it just as if it

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was part of HTML.

Put another way, if AngularJS doesn't do something out of the box, think how the team would accomplish it to fit right in with ngClick, ngClass, et al.

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