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testDirective() function { var postLink = function (range, element, attrs) { scope.$watch(attrs.watchAttribute, function (newVal) { if (newVal) { // look in the console // we can not use the attribute directly console.log (attrs.watchAttribute); // newVal is evaluated, and can be used scope.modifiedFooBar = newVal.bar * 10; } }, true);
attrs.$observe('observeAttribute', function (newVal) { scope.observd = newVal; }); return { link: postLink, templateUrl: '/attributes-demo/test-directive.html' }; }
Note that attrs.watchAttribute is uploaded to scope.$watch() without quotes! That is, what was known $watch was a string of MC.foo! However, this works because any string passed to $watch() gets evaluated by scope and MC.foo is available on the range. This is also the most common way that attributes are tracked in the basic AngularJS guidelines. Check out the code on github for the template, and look into $parse and $eval for even more awesomeness.
Common error #12: No cleaning up in a row - intervals, time limits and variables
AngularJS AngularJS some work on your behalf, but not all. The following needs to be manually cleaned: All observers who are not bound by the current range (e.g. bound to $rootScope) Intervals Timeouts Variables referring to DOM in directives
Dodgy jQuery plugins, such as those that do not have manipulators to respond to a JavaScript event $destroy
If you do not want to do this manually, you will encounter unexpected behavior and memory leaking. Even worse - these will not be immediately visible, but they will creep up eventually. Murphy's Law. The amazing thing is that AngularJS provides useful ways to how to deal with all of these: cleanMeUp ($interval, $rootScope, $timeout) { var postLink = function (range, element, attrs) { var rootModelListener = $rootScope.$watch('someModel', function () { // do something }); var myInterval = $interval(function () { // do something at intervals }, 2584); var myTimeout = $timeout(function() { // postpone any action here }, 1597); scope.domElement = element; $timeout(function) { // call $destroy manually for testing purposes scope.$destroy(); }, 987); // here is where the cleanup happens scope.$on('$destroy', function () { // disable listener rootModelListener(); // cancel interval and timeout $interval.cancel (myInterval); $timeout.cancel (myTimeoutout); // cancel DOM-bound model scope.domElement = null; }); element.on('$destroy', function () { // this is a jQuery event // clean up all vanilla JavaScript / jQuery artifacts here // respectful jQuery plugins have $destroy manipulators, // that's why this event is emitted ... // follow the standards. }); Note the jQuery $destroy event. It is called as an AngularJS one, but it is handled separately. The $watchers will not respond to the jQuery event.
Common mistake #13: Keeping too many observers
It should be pretty easy now. There's one thing to understand here: $digest (). For each binding {{ model }}, AngularJS creates an observer. For each stage of digestion, each such bond shall be evaluated and compared with the previous value. It's called dirty control, and that's $digest does. If the value has changed since the last check, the observer's callback shall be thrown out. If this observer callback modifies the model ($scope variable), a new cycle of data (up to 10) is $digest thrown out when the exemption is thrown out. Browsers don't even have problems with thousands of links unless the terms are complex. The common answer to how many observers it is ok to have is 2000. So, how can we limit the number of observers? By tracking the range of models when we don't expect it to change. It's fairly easy further away from AngularJS 1.3 because one-time ties are at the core now. &lt;if ng-repeat=it&gt;item in ::vastArray&gt;{{ ::item.speed }}&lt;/if&gt;
Once vastArray and item.velocity have been evaluated, they will never change again. You can still apply filters to the field, they will work just fine. It's just that the field itself is not evaluated. In many cases, it's a win.
error #14: Misunderstanding Misunderstanding Digest
This AngularJS error was already partially covered by errors 9.b and 13. This is a more thorough explanation. AngularJS updates the DOM due to the callback function for observers. Every binding, that's the directive {{ someModel }} sets the observers, but observers are also set for many other directives such as ng-if and ng-repeat. Just look at the source code, it's very readable. Observers can also be set up manually, and you've probably done that at least a few times yourself. $watch()ers are bound to ranges. $Watchers may take strings that are evaluated to the extent that $watch() has been bound. They can also evaluate features. And they also take callbacks. So, when $rootScope.$digest() is called, all registered models (i.e. $scope variables) are evaluated and compared with their previous values. If the values do not match, a callback of the $watch() shall be made. It is important to understand that even if the model value has been changed, callback does not fire until the next stage of digestion. This is called a phase for some reason - it can consist of several digestive cycles. If only the observer changes the range model, a further digestion cycle is performed. But $digest() not interviewed. It is called basic directives, services, methods, etc. If you change a model from a custom function that does not name .$apply, .$applyAsync, .$evalAsync, or anything else that eventually calls $digest(), the bindings are not updated. By the way, the source code $digest() is actually quite complex. Still, it's worth reading because cheerful warnings have quantified it.
Common error #15: Don't rely on automation or rely on it too much if you follow trends within front-end developments and are a little lazy - like me - then you probably try to do everything manually. Tracking all your dependencies, processing files in different ways, reloading your browser after each file save - there is much more to develop than just encoding. So you may be using bower, and maybe npm depending on how you serve your application. There is a chance that you may be using a grunt, sip, or brunch. Or bash, which is also cool. In fact, you may have started your latest project with some Yeoman generator! This leads to the question: do you understand the whole process of what your infrastructure really does? Need what you have, especially if you've just spent hours trying to fix the webserver livereload connection feature? Take a second to assess what you need. All these tools are here just to help you, there is no other reward for using them. The more experienced developers I speak to tend to simplify things.
Common error #16: Unlaunched drive tests in TDD mode
tests will not be your code without AngularJS error messages. What they do is make sure your team doesn't run into regression problems all the time. I am writing specifically about unit tests here, not because I feel they are more important than e2e tests, because they perform much faster. I must confess that the process I am about to describe is very pleasant. Test Driven Development as an implementation for eg sip-karma runner, basically running all your drive tests on each file to save. My favorite way to write tests is, I just write blank assurances first: describe ('some module', function () { it ('should call name-it service ...', function () { // leave it blank now }); ... }); After that, I write or refactor the actual code, then I go back to the tests and fill out the warranties with the actual test code. Having a TDD job running in a terminal speeds up the process by about 100%. Unit tests are performed in seconds, even if you have many. Just save the test file and the runner will pick up, evaluate your tests, and provide feedback immediately. With e2e tests, the process is much slower. My advice - divide the e2e tests into test suites and just run them one by one. Protractor has support for them, and below is the code that I use for my test tasks (I like a sip), use strictly:
boil sip = require('sip'); var args = require('yarn').argv; var browserSync = require('browser-sync'); var karma = require('gulp-karma'); var protractor = require('gulp-protractor').retread; var webdriverUpdate = require('gulp-protractor').webdriver_update; function test() { // Be sure to return the stream // NOTE: Using the fake './foobar' so that in order to run the files // listed in karma.conf.js instead of what was uploaded to // gulp.src ! return gulp.src ('./foobar') .pipe(karma({ configFile: 'test/karma.conf.js', action: run })) .on('error', function(err) { // Make sure that failed tests cause, that you terminate the sip of the non-zero console // console.log(err); // does not end the current here }); } runProtractor () { var argument = args.suite || everything; NOTE: Using the fake './foobar' so as to run the files // listed in protractor.conf.js, instead of what was passed // gulp.src return gulp.src('./foobar') .pipe(protractor({ configFile: 'test/protractor.conf.js', args: ['-suite', argument] })) .on('error', function (err) { // Make sure that the failed tests cause the sip to end the non-zero throw error; }) .on('end', function () { // Close browsersync server browserSync.exit(); }) gulp.task('tdd', tdd); gulp.task('test', test); gulp.task('test-e2e', [webdriver-update], runProtractor); gulp.task('webdriver-update', webdriverUpdate); A - Chrome breakpoints
Chrome dev tools allow you to point to a specific location in any of the files loaded into the browser, pause code execution at that point, and allow you to communicate with variables available from this point on. That's a lot! This feature does not require the addition of a code Everything, everything happens in dev tools. Not only do you have access to all variables, you can also see the call stack, print tray tracks, and more. You can even configure it to work with minified files. Read about it here. There are other ways you can get similar access to running, such as adding .log(). But the border points are more sophisticated. AngularJS also allows you to access the scope through DOM elements (if debuggingInfo is enabled) and apply available services through the console. Consider the following in the console:
$(document.points).scope().$root or point to an element in the inspector. and then:
$(0).scope() Even if debugInfo is not enabled, you can do it: ular.reloadWithDebugInfo() And have it available after reloading:
To apply and communicate with the service from the console, try:
var injector = $(document.body).injector(); var someService = injector.get('someService'); B - Chrome Timeline
Another great tool that comes with dev tools is timeline. This allows you to record and analyze your app's live performance while you're using it. Output shows, among other things, memory usage, frame rate, and dissection of various processes that take up the processor: loading, scripting, rendering, and painting. If you experience that the performance of your app is decreasing, you will most likely be able to find the cause through that timeline tab. Just record your actions that led to performance problems and see what happens. Too many observers? You will see yellow stripes taking up a lot of space. Memory leak? In the chart, you can see how much memory has been consumed over time. Step-by-step description:
C - Remote app review on iOS and Android
If you're developing a hybrid app or responsive web app, you can access your device's console, DOM tree, and all other tools available through either Chrome or Safari developer tools. This includes WebView and UIWebView. First, start the Web server on the host computer 0.0.0.0 so that it can be accessed from the local network. Enable web inspector in settings. Then connect the device to the desktop and access the local development page using an ip computer instead of the normal localhost. That's all it takes, your device should now be available from your computer's browser. Here are step-by-step instructions for Android A for iOS, unofficial tutorials can be easily found through Google. I recently had some cool experience with browserSync. It works in a similar way to livereload, but also actually syncs all browsers that are viewing on the same page via browserSync. This includes user interaction such as scrolling, clicking buttons, etc. I was looking at the iOS app log output while checking the page for an iPad from my desktop. It worked nicely!
Common error #18: No reading code on ng-init example
ng-init, from sound, should be similar to ng-if and ng-repeat, right? Have you ever wondered why there is in documents that should not be used? IMHO it was surprising! I would expect the directive to initiate a model. This is also what he does, but ... implemented in a different way, i.e. it does not look at the attribute value. No need to browse AngularJS source code - let me tell you this:
var ngInitDirective = ngDirective (priority: 450, compilation: function() { return { for: function (range, element, attrs) { scope.$eval(attrs.ngInit); } } }); Less than you'd expect? Quite readable, apart from the embarrassing syntax of the directive, right? The sixth row is what it is all about. Compare it to ng-show:
var ngShowDirective = [$animate, function($animate) { return { restrict: 'A', multiElement: true, reference: function (range, element, attr) { scope.$watch(attr.ngShow, function ngShowWatchAction(value) { // we add a temporary, animation-specific class for ng-hide, because in this way // we can control when the element is actually displayed on the screen without having to // have a global/greedy CSS selector that breaks when other animations are run down. // Read: $animate [value? removeClass : addClass](element, NG_HIDE_CLASS, { tempClasses: NG_HIDE_IN_PROGRESS_CLASS }); }); }); }]; Again, the sixth row, there is $watch, that is what makes this directive dynamic. In the AngularJS source code, a large part of all codes are comments that describe code that has been mostly readable from the beginning. I believe this is a great way to learn about AngularJS. Conclusion
This guide applies to the most common errors AngularJS is almost twice as long as other tutorials. It turned out so naturally. The demand for high-quality javascript editors/queuing engineers is very high. AngularJS is so hot right now and it has been holding a stable position among the most popular development tools for several years. With AngularJS 2.0 on the way, it will likely dominate for years to come. What's great about front-end development is that it is very rewarding. Our work is visible immediately and people interact directly with the products we supply. Time spent learning JavaScript, and I believe we should focus on JavaScript, is a very good investment. It's the language of the Internet. The competition is super strong! There's one focus for us - the user experience. To be successful, we have to cover everything. You can download the source code used in these examples from GitHub. Feel free to download it and make it your own. I wanted to give credits to the four publishing developers that inspired me the most: Ben Nadel Todd Motto Pascal Precht Sandeep Panda I also wanted to thank all the great people at FreeNode #angularjs and #javascript channels for many excellent interviews, and continuous support. Finally, always remember: // when in doubt, comment it! :)
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