Contents

Introduction	1
Foreword	. 1
Acknowledgments	. 2
About the Author	
About This Book	. 2
Organization of This Book	. 3
Additional Resources	. 4
Conventions Used in This Book	
Development Environment	
The Basics of AngularJS	6
How Web Pages Get to Your Browser	
What Is a Browser?	
What Is AngularJS	
Data Binding and Your First AngularJS Web Application	10
Introducing Data Binding in AngularJS	
Simple Data Binding	
Best Data Binding Practices	
Modules	18
Properties	19
Scopes	20
The \$scope View of the World	20
It's Just HTML	21
What Can Scopes Do?	
\$scope Lifecycle	23
Directives and Scopes	
Controllers	25
Controller Hierarchy (Scopes Within Scopes)	
Expressions	31
Interpolating a String	

Filters	3	37
Making Our Own Filter	4	í4
Form Validation	4	4 5
Introduction to Directives	5	59
Directives: Custom HTML Elements and Attributes	6	51
Passing Data into a Directive	7	70
Built-In Directives	7	79
Basic ng Attribute Directives		79
Directives with Child Scope		33
Directives Explained	10)3
Directive Definition		
Directive Scope		
AngularJS Life Cycle		
ngModel		
Angular Module Loading	13	32
Configuration		
Run Blocks		
Multiple Views and Routing	13	36
Installation		
Layout Template		
Routes		
\$location Service		
Routing Modes		
Other Advanced Routing Topics		
Dependency Injection	14	49
Annotation by Inference		
Explicit Annotation		
Inline Annotation		
\$inject API		
ngMin		55
Services	15	57
Registering a Service		
Using Services		
Options for Creating Services		
Communicating with the Outside World: XHR and Server-Side Communication	17	73
Using \$http		
Configuration Object		78

	Response Object	80
	Caching HTTP Requests	80
	Interceptors	82
	Configuring the \$httpProvider	84
	Using \$resource	85
	Installation	86
	Using \$resource	86
	Custom \$resource Methods	91
	\$resource Configuration Object	92
	\$resource Services	94
	Using Restangular	96
	The What and the Why	97
	Installation	98
	Intro to the Restangular Object	
	Using Restangular	00
	Configuring Restangular	
Xl	IR in Practice	
	Cross-Origin and Same-Origin Policy	
	JSONP	
	Using CORS	
	Server-Side Proxies	
	Working with JSON	
	Working with XML	17
	Authentication with AngularJS	
	Talking to MongoDB	26
D۰	omises	20
11	What's a Promise?	
	Why Promises?	
	·	
	Promises in Angular	
	Chaming Requests	50
Se	ver Communication	38
	Custom Server-Side	38
	Install NodeJS	38
	Install Express	
	Calling APIs	
	Server-less with Amazon AWS	
		47
	Getting Started	47
	Introduction	
	Installation	

251
252
256
258
261
264
264
265
268
271
274
275
276
278
282
283
284
288
289
290
290
291
294
<i>L)</i> T
295
295
295
296
296
298
299
302
309
312
313
320
331
332
340
363
365
365

Configuration Options	
Writing Tests	. 370
Page Objects	. 371
Events	. 373
What are Events	. 373
Event Propagation	. 373
Listening	. 375
Event Object	
Core Services Riding on Events	
Architecture	. 379
Directory Structure	
Modules	
Controllers	
Directives	
Testing	
Angular Animation	386
Installation	
How It Works	
Using CSS3 Transitions	
Using CSS3 Animations	
Staggering CSS Transitions / Animations	
Using JavaScript Animations	
Fine-tuning animations	
Animating Built-In Directives	
Building Custom Animations	
Integrating with Third-Party Libraries	. 423
The Digest Loop and \$apply	
\$watch List	
Dirty Checking	
\$watch	
\$watchCollection	. 430
The \$digest Loop in a Page	. 431
\$evalAsync List	. 432
\$apply	. 433
When to Use \$apply()	. 434
Demystifying Angular	. 436
How the View Works	
Essential Angular IS Extensions	. 440

AngularUI	 440
Installation	 440
ui-router	 440
ui-utils	 453
Mobile Apps	 458
Responsive Web Apps	
Interaction	
Native Applications with Cordova	
Getting Started with Cordova	
Including Angular	
Building with Yeoman	
building with reoman	 4/4
Localization	 482
angular-translate	 482
Installation	 482
Teaching Your App a New Language	 483
Multi-language Support	 485
Switching the Language at Run Time	 486
Loading Languages	 487
angular-gettext	
Installation	
Usage	
String Extraction	
Translating Our Strings	
Compiling Our New Language	
Changing Languages	
Cooking	400
Caching	
What Is a Cache?	
Angular Caching	
Caching through \$http	
Setting Default Cache for \$http	 501
Security	 50 3
Strict Contextual Escaping: the \$sce Service	 503
Whitelisting URLs	 506
Blacklisting URLs	 507
\$sce API	
Configuring \$sce	510
Trusted Context Types	510
	F40
AngularJS and Internet Explorer	512 514

SEO with AngularJS	
Getting Angular Apps Indexed	 515
Server Side	
Options for Handling SEO from the Server Side	 516
Taking Snapshots	 519
Using Zombie.js to Grab HTML Snapshots	 519
Using grunt-html-snapshot	
Prerender.io	 523
<pre><noscript> Approach</noscript></pre>	 524
Building Angular Chrome Apps	 525
Understanding Chrome Apps	
Building our Chrome App	
Building the Skeleton	
manifest.json	
tab.html	
Loading the App in Chrome	
The Main Module	
Building the Home Page	
Sign Up for Wunderground's Weather API	
A Settings Screen	
Implementing a User Service	
City Autofill/Autocomplete	
Sprinkling in Time Zone Support	 547
Optimizing Angular Apps	 551
What to Optimize	
Optimizing the \$digest Loop	 551
Optimizing ng-repeat	
Optimizing the \$digest Call	
Optimizing \$watch Functions	
Optimizing Filters	
Tips for Optimizing Page Load	
Debugging Angularis	F ()
Debugging AngularJS	
Debugging from the DOM	
Debugger	
Angular Batarang	 565
Next Steps	 569
jqLite and jQuery	
Essential Tools to Know About	
Grunt	
grunt-angular-templates	

ineman	30
Sower	32
Yeoman	36
Configuring the Angular Generator) 2
Sesting Our App) 2
ackaging Our App	€
ackaging Our Templates)4