

Contents

Preface	V
Motivation for this Book	V
Who Should Read this Book?.....	VI
Outline to the Book Structure	VII
Prerequisite Skills	VIII
Acknowledgements	VIII
About the Author	IX
Contents	XI
1 What is Ajax?	1
1.1 Introduction	1
1.2 What is XMLHttpRequest?	2
1.3 XMLHttpRequest Object Properties.....	2
1.3.1 The readyState Property	3
1.3.2 The onreadystatechange Property.....	3
1.3.3 The responseText Property	3
1.3.4 The responseXML Property	4
1.3.5 The status Property	4
1.3.6 The statusText Property.....	4
1.4 XMLHttpRequest Object Methods.....	5
1.4.1 The abort() Method.....	5
1.4.2 The open() Method	5
1.4.3 The send() Method.....	5
1.4.4 The setRequestHeader() Method	6
1.4.5 The getResponseHeader() Method	6
1.4.6 The getAllResponseHeaders() Method.....	6
1.5 Sending an Ajax Request.....	7
1.6 Processing an Ajax Request.....	8
1.7 JDeveloper Integrated JavaScript Editor	10
1.8 Summary	17

2 Developing an Ajax Web Application	19
2.1 Introduction	19
2.2 Setting the Environment	19
2.3 Sending an Ajax Request.....	29
2.4 Processing an Ajax Request on the Server Side	31
2.5 Processing an Ajax Response	35
2.6 Summary	44
3 Less JavaScript with Prototype	45
3.1 Introduction	45
3.2 Overview of Prototype.....	45
3.2.1 \$() function	45
3.2.2 \$F() function.....	46
3.2.3 \$A() function	46
3.2.4 \$H() function	46
3.2.5 \$R() function	46
3.2.6 \$w() Function	47
3.2.7 Try.these function()	47
3.2.8 Ajax.Request Class.....	47
3.2.9 Ajax.Updater Class.....	49
3.2.10 Ajax.PeriodicalUpdater Class	50
3.3 Installing Prototype	50
3.4 Configuring Prototype in AJAX Web Application.....	51
3.5 Updating a DOM Element with Ajax.Updater	58
3.6 Summary	60
4 Ajax with Java-GWT	61
4.1 Introduction	61
4.2 Installing GWT	61
4.3 Creating a GWT Application.....	62
4.4 GWT Class Libraries	75
4.5 Creating a Form Validation Ajax Application.....	77
4.6 Summary	87
5 Ajax with Java-DWR	89
5.1 Introduction	89
5.2 Setting the Environment	89
5.3 Creating a DWR Application.....	90
5.4 Deploying and Running the DWR Application	103
5.5 Summary	106

6 Ajax without JavaScript – AjaxTags	107
6.1 Introduction	107
6.2 Setting the Environment	107
6.3 Overview of AjaxTags.....	111
6.4 Installing AjaxTags.....	113
6.5 Validating a Form with AjaxTags	114
6.6 Summary.....	128
7 Ajax with JSF-Ajax4jsf	129
7.1 Introduction	129
7.2 Overview of Ajax4jsf	129
7.2.1 Ajax Filter.....	130
7.2.2 Ajax Action Components	130
7.2.3 Ajax Containers	130
7.2.4 JavaScript Engine	130
7.2.5 Ajax4jsf Component Library.....	130
7.3 Setting the Environment	132
7.4 Creating an Ajax4jsf Application	133
7.5 Sending an Ajax Request.....	145
7.6 Processing an Ajax Request.....	148
7.7 Processing the Ajax Response.....	154
7.8 Summary.....	158
8 Ajax with PHP-Xajax	159
8.1 Introduction	159
8.2 Setting the Environment	160
8.3 Integrating PHP with JDeveloper	161
8.4 Creating a Database Table	164
8.5 Sending an Ajax Request.....	167
8.6 Processing an Ajax Request.....	169
8.7 Processing the Ajax Response.....	172
8.8 Summary.....	179
9 RSS Feed with Ajax	181
9.1 Introduction	181
9.2 Overview of Google Ajax Feed API	182
9.3 Setting the Environment	184
9.4 Receiving a RSS Feed	186
9.5 Receiving Multiple Feeds	191
9.6 Summary.....	194

10 Web Search with Ajax.....	195
10.1 Introduction	195
10.2 Setting the Environment for Google Search.....	195
10.3 Overview of Google Ajax Search API	197
10.4 Creating a Google Ajax Web Search Application.....	199
10.5 Web Search with Yahoo Web Services	203
10.6 Creating an Ajax Web Search Application for Yahoo	205
10.7 Sending an Ajax Request with Yahoo Search Web Services	210
10.8 Running the Yahoo Ajax Web Search Application	217
10.9 Summary.....	219
Index	223