
Contents

<i>List of figures, table and boxes</i>	<i>ix</i>
<i>Acknowledgements</i>	<i>xiii</i>
<i>About the authors</i>	<i>xv</i>
Part I – Introduction	1
1 What is metadata?	3
The increasing importance of metadata	4
Metadata creators	5
Metadata in digital library applications	6
Location of metadata	7
Thinking widely about metadata	8
Organisation of this book	9
Notes	10
Part II – Implementation of metadata creation activities	11
2 Choosing metadata standards for a digital library project	13
Metadata for a purpose	13
Factors to consider	13
Functions of metadata standards	20
Using multiple standards	26
Notes	28
3 Creating metadata usage guidelines	29
Continuing to plan	29
Topics to cover in metadata usage guidelines	30
Writing, testing, and refining usage guidelines	37
Notes	41

4	Creating metadata	43
	The metadata creation process	43
	Designing a metadata creation workflow	43
	User interfaces for metadata creation	47
	Creating metadata directly in XML	50
	Benefits of learning XML technologies	52
	Quality control for metadata creation	54
	Notes	58
5	Practical implementation of a metadata strategy	61
	Staffing	61
	What it means to be a metadata specialist	63
	Integrating metadata work into a larger infrastructure	65
	Financial implications	67
	Notes	70
	Part III – Systems design	73
6	Functions performed by a digital library system	75
	The user at the centre of the system design	76
	Digital library system functions	77
	Metadata for a purpose	83
	Notes	85
7	Metadata that drives discovery functionality	89
	The role of user studies	89
	Analysing metadata for planning systems	90
	Searching	93
	Browsing	98
	Advanced discovery functionality	101
	Results display	106
	Notes	110

Part IV – Metadata interoperability	115
8 Defining interoperability	117
Why sharing?	117
Collections and services	118
Facets of interoperability	119
The challenge of making collections usable by multiple systems	123
Balancing interoperability with local needs	125
Notes	125
9 Interoperability and resource discovery	127
Resource discovery	127
Resource discovery in other connected systems	128
Generalist search engines	130
Portals and registries	134
Automatic discovery mechanisms	136
Notes	137
10 Technical interoperability	139
Centralised and decentralised search indexes	139
Data aggregation	143
Identifying and locating resources	150
Transforming metadata records	157
Notes	164
11 Content interoperability: shareable metadata	169
Some models for aggregating and using metadata from diverse sources	169
The current state of aggregations	175
Creating shareable metadata	176
Notes	181
Part V – Conclusion	185
12 The future of metadata	187
Automated metadata generation	187

Web 2.0 ideas: participation and mashups	188
Defining a strategy for metadata management	193
Evolving institutional missions	195
Notes	196
Index	199