

CONTENTS

<i>Illustrations</i>	vii
<i>Acknowledgments</i>	ix

I Introduction:

Moving Theory into Practice I

ANNE R. KENNEY AND OYA Y. RIEGER

Why This Book? 2 / Underlying Principles 4 / This Book's Outline 8 / Additional Resources 10 / *Real-Life Choices* (Abby Smith) 2 / *What Users Want from Digital Image Collections* (Beth Sandore) 4 / *Make Your Digital Imaging Program Successful: Involve the Stakeholders* (Don Willis and Drew Lathin) 7

2 Selection for Digital Conversion II

PAULA DE STEFANO

Copyright 11 / Selection to Enhance Access 13 / Selection Based on Content 15 / Selection for Preservation 21 / *What About Copyright?* (Georgia Harper) 12 / *Digitizing the Record of a Colonial Culture: Ferguson 1840–45* (Ross Coleman) 16 / *Selection of Special Collections Materials for Digitization at the University of Washington Libraries* (Geri Bunker Ingram and Carla Rickerson) 18 / *Selecting Collections and Selecting Technology: American*

Memory at the Library of Congress (Carl Fleischhauer) 20 / *Selection for Digitization in Academic Research Libraries: One Way to Go* (Ross Atkinson) 21

3 Digital Benchmarking for Conversion and Access 24

ANNE R. KENNEY

What Is Digital Benchmarking? 24 / Benchmarking for Conversion 27 / Benchmarking for Access 55 / *Digitizing Science: JSTOR Faces New Challenges* (Elizabeth Z. Bennett) 26 / *Benchmarking Digitizing Systems for Photographs* (Franziska S. Frey) 36 / *Interpreting Digital Scanner/Camera Specifications* (Don Williams) 40

4 Establishing a Quality Control Program 61

OYA Y. RIEGER

Prerequisites for QC 61 / Setting Up Your QC Program 63 / Assessing Image Quality 73 / *Metadata Quality Control* (Richard Marisa) 67 / *Color 101: Introduction to Color Theory*

(Oya Y. Rieger) 64 / *An Overview of Image-Quality Metrics* (Don Williams) 72 / *What Does the Colour Characterisation of Digital Still Cameras Standard Promise for the Digital Imaging Community?* (Peter D. Burns) 77

5 Metadata: Principles, Practices, and Challenges 84

CARL LAGOZE AND SANDRA PAYETTE

The Challenge of Metadata for Networked Information 84 / Functional Uses of Metadata 86 / Implications for Digital Imaging Programs 99 / *Choices: MARC or Dublin Core?* (Diane I. Hillmann) 89 / *TIFF Header: A Reference Stamp for Image Files* (Norbert Lossau and Frank Klaproth) 97

6 Enhancing Access to Digital Image Collections: System Building and Image Processing 101

JOHN PRICE-WILKIN

Iterative System Building 102 / Master and Derivative in the Online System 103 / Bringing Intelligence to Images—Enhancing Access with Text 110 / *OCR Trends and Implications* (Kenn Dahl) 111 / *Content-Based Image Retrieval* (John P. Eakins) 114 / *Raster, Vector, and Automated Raster-to-Vector Conversion* (Yecheng Wu) 117

7 Image Management Systems and Web Delivery 119

PETER B. HIRTLE

What Is an Image Management System? 119 / Uses of the System 120 / System Design Features 123 / Image Management Systems in Practice 125 / Web Delivery 133 / Prepare for Change 134 / *On the Bleeding Edge* (Bruce H. Bruemmer) 122 / *Delivering the AMICO Library™ through RLG's Eureka® Service* (Arnold Arcolio and Bruce Washburn) 128 / *Electronic Document Management Systems as Archival Image Repositories* (Deborah Skaggs) 131

8 Projects to Programs: Developing a Digital Preservation Policy 135

OYA Y. RIEGER

Access vs. Preservation 135 / Digital Images as Digital Objects 136 / Digital Image Collections as Artifacts 136 / Components of a Digital Preservation Policy 136 / Why Is Digital Preservation So Challenging? 137 / Digital Preservation Strategies 146 / Promising Digital Preservation Initiatives 150 / *Confronting Obsolescence: An Archival Lifestyle* (Janet K. Vavra) 138 / *Principles for Creating a Basic Preservation Strategy* (Margaret Hedstrom) 140 / *Refreshing: Lessons Learned in a Library* (Deborah Woodyard) 147

9 Projects to Programs: Mainstreaming Digital Imaging Initiatives 153

ANNE R. KENNEY

A Strategy for Transition 153 / Financing Digital Imaging Programs 164 / Is Digitization Economically Viable? 170 / Towards a New Paradigm 174 / *When the Ideal Meets the Pragmatic—or the Rubber Meets the Road* (Sarah Thomas) 155 / *Outsourcing Digitization: A Service Provider's Perspective* (Meg Bellinger) 158 / *Production Tracking* (Paul Conway) 160 / *Cumulative Evolution as Revolution: Four Trends that Will Change the Rules for Digital Imaging Programs* (Clifford Lynch) 162 / *Digital Barn Raising* (Deanna B. Marcum) 164 / *Sustainability through Integration* (Susan M. Yoder) 173

Index 177