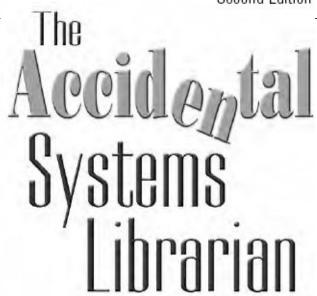
Second Edition

ccidental Systems Librarian

Nicole C. Engard With Rachel Singer Gordon

The Second Edition Accidental Systems Librarian



Nicole C. Engard With Rachel Singer Gordon

Information Today, Inc. Medford, New Jersey

The Accidental Systems Librarian, Second Edition

Copyright © 2012 by Nicole C. Engard With Rachel Singer Gordon

All rights reserved. No part of this book may be reproduced in any form or by any electronic mechanical means, including information storage and retrieval systems, without permission in writing from the publisher, except by a reviewer, who may quote brief passages in a review. Published by Information Today, Inc., 143 Old Marlton Pike, Medford, New Jersey 08055.

Publisher's Note: The author and publisher have taken care in preparation of this book but make a expressed or implied warranty of any kind and assume no responsibility for errors or omissions. It liability is assumed for incidental or consequential damages in connection with or arising out of the use of the information or programs contained herein.

Many of the designations used by manufacturers and sellers to distinguish their products are claimed as trademarks. Where those designations appear in this book and Information Today, Inc., was awa of a trademark claim, the designations have been printed with initial capital letters.

Library of Congress Cataloging-in-Publication Data

Engard, Nicole C., 1979-

The accidental systems librarian / Nicole C. Engard with Rachel Singer Gordon. -- 2nd ed.

p. cm.

Includes index.

ISBN 978-1-57387-453-3

1. Systems librarians. I. Gordon, Rachel Singer. II. Title.

Z682.4.S94E54 2012

025.00285--dc23

201202793

Printed and bound in the United States of America

President and CEO: Thomas H. Hogan, Sr. Editor-in-Chief and Publisher: John B. Bryans VP Graphics and Production: M. Heide Dengler

Managing Editor: Amy M. Reeve Editorial Assistant: Brandi Scardilli Cover Designer: Ashlee Caruolo Copyeditor: Barbara Brynko Proofreader: Beverly Michaels Indexer: Kathleen Rocheleau

www.infotoday.com

For my husband, the best man I know

Contents

Copyright
Acknowledgments
About the Website
Foreword, by Eric Morgan
Introduction

Chapter 1: Systems Librarianship 101: Defining Systems Librarianship

Library Skills and Communication

Yes, You Are a Systems Librarian

Establishing Competencies

Systems Librarians As Change Agents

Chapter 2: Systems Librarianship 102: Desktop Software You May Need to Master

Open Source Software

Operating Systems

Productivity Software

Web Browsers

Chapter 3: Systems Librarianship 103: Web Applications You May Need to Master

Web Design

Programming

Cloud Computing

Virtual Reference

Chapter 4: Systems Librarianship 104: Other Technical Areas You May Need to Master

Integrated Library System Management

Mobile Computing

Networking

Troubleshooting

Antivirus and Workstation Security

Miscellaneous Issues

Chapter 5: Organization of Knowledge

Inventorying

Licensing

Support Information

Statistics

Documentation

Chapter 6: Research Techniques

Resources

Techniques

Dealing With Technical Support

The Support Interview

Researching Technology Purchases

Chapter 7: Networking

Online Discussion Groups

Social Networks

Interest Groups

Associations and Conferences

Informal Networks

Developing Networking Skills

Collaboration

Chapter 8: Instruction Techniques

Adult Learners

Training Techniques

Training Staff

Training Patrons

Ad Hoc Opportunities

Setting Up Sessions

Online Training

Screencasts and Video Blogs

Setting Boundaries

Chapter 9: Independent Study

Online Classes and Tutorials

Community College and Computer Training Center Classes

Local Workshops

Library Schools

Self-Education

Current Awareness

Funding Training Opportunities

Chapter 10: Administration and Management

Creating a Technology Plan

Buying Software

Managing Systems Staff

Chapter 11: Integrated Library System Migration

Selecting a Vendor and/or Product

Data Cleanup

Staff Training

Computer Upgrades

Patron Training

Usability Testing

Changing Over

Chapter 12: Life Lessons

Finding a Job

Branching Out

Negotiating a Promotion (or a Raise)

Technostress

Ethics

Conclusion

Appendix A: Accidental Systems Librarian Survey

Appendix B: Recommended Reading

Appendix C: Websites

About the Author

Index

Acknowledgments

As with systems librarianship, writing a book is a less-than-solitary endeavor. I would like to that the many library professionals who took time from their busy schedules to answer survey question and to participate in interviews, sharing their expertise and experiences with fellow systems librarian Thanks also to the readers of the first edition of this book for making it a success and facilitating the need for a second edition.

I would also like to extend my gratitude to Rachel Singer Gordon for having the faith in nabilities to update this work for the next generation of systems librarians. Without Rachel's constatencouragement, I would have never thought to take on such a task.

About the Website tasl.web2learning.net

As a systems librarian, you know that your job—and the resources you use to carry out your duti successfully—are constantly changing. While this book references a number of useful websites f systems personnel in all types of libraries, the nature of the web means that pages move, sites chang and new and helpful resources are constantly emerging.

The website, available to you as a valued reader of *The Accidental Systems Librarian*, will kee you apprised of these changes, updating links and adding new resources and articles of interest systems librarians. Please feel free to email your comments, changes, or additions nengard@gmail.com.

Disclaimer

Neither the publisher nor the author make any claim as to the results that may be obtained through the use of this website or of any the internet resources it references or links to. Neither publisher nor author will be held liable for any results, or lack thereof, obtain by the use of this site or any of its links; for any third-party charges; or for any hardware, software, or other problems that may occas the result of using it. This website is subject to change or discontinuation without notice at the discretion of the publisher a author.

Foreword

I was very excited to be asked to write the foreword for this book. As a systems librarian myself, find that resources like this one can be very helpful. I found the book to be a useful, insightful, as well-written guide for people responsible for computer technology in library settings.

Are you an accidental systems librarian? Have you seen your career gravitate toward the management of computers in libraries? I certainly have, and if you have too, then you are a system librarian. If you just seemed to fall into this position, then you may very well be an accidental system librarian. Either way, congratulations! This book is for you because you have just become a memb of a newer, up-and-coming specialty of the profession—a speciality that is only going to increase importance and not going to go away anytime soon. Welcome to the club!

In this book, Engard and Gordon describe the competencies of this subdiscipline as well as the various characteristics of a fully qualified systems librarian. This is very important because most the skills they describe are not taught in the current library school curriculum. Everything you need know is included: what software to master, techniques for learning new skills, how to network wi colleagues, and of course, communication, communication, and more communication. Along the water very useful and very insightful quotes from people in the field, short interviews, and pointers websites all supporting and elaborating on the text.

After reading—and understanding—this book, you too will discover that systems librarianship less about computers and more about librarianship. The skills and competencies of systems libraria are very similar to the skills and competencies of librarians in general. I believe the use of the reference interview is an excellent case in point. The difference between systems librarians and oth types of librarians is often more a matter of the intended audiences for services and those tools which services become a reality.

That said, it is important to understand that systems librarianship is not limited to providing support to other people who work in libraries. No, I think its definition—as Engard and Gordon point—extends to local collection building and the provision of services to library readers (I no long use the word *users*). For example, as a systems librarian, I have personally amassed a collection more than 14,000 public domain full-text books in the areas of American and English literature well as Western philosophy. I call this digital library the Alex Catalogue of Electronic Texts. Not only does its index support full-text searching, but each and every item in the collection is associated with concordancing functions enabling people who use the catalogue to do distant reading against the content. The catalogue has been online since 1994 and receives thousands upon thousands of his every day. In this way, I am providing real library services to a global audience, and it is all because of my systems librarianship skills.

Depending on how one counts, librarianship has existed for hundreds if not thousands of years. F much of that time, the principles and processes of librarianship have remained rather constant, believe they include the collection, organization, preservation, dissemination, and sometim evaluation of data, information, and knowledge. These processes are the "what's" of librarianship they don't change very much. On the other hand, the "how's" of librarianship evolve as technology.

evolves. The evolution of the venerable library catalog is an excellent example. Think first about the knowledge of collections inside a librarian's mind. Then think scrolls, books, card catalogs, onling public access catalogs grounded in database applications, and current index-based "discovery systems—all tools used to help the reader find and access materials in a library, and all examples evolutions in technology. *The Accidental Systems Librarian* is a book about the most recent "how's of librarianship, specifically the management and use of computers in libraries. It provides a thorough and excellent introduction to the field.

Read this book. Follow its instructions. Absorb what it has to offer. I sincerely believe the erresult will be a more satisfying and purposeful career for you in systems librarianship.

—Eric Morgan, digital projects libraria Hesburgh Libraries, University of Notre Dan

Introduction

Systems work in libraries presents a unique mix of frustrations, challenges, and triumphs. One guarantee: You'll never be bored.

—Rachel Singer Gordon¹

I first started in libraries as a web developer and was not originally looking to become a librarian. On of the first professional development titles I read while starting out was *The Accidental System Librarian*. While I was being thrown into a systems role among librarians at the time of the firedition of *The Accidental Systems Librarian*, so were many other librarians. Today, in the age of Facebook, Twitter, web-based integrated library systems, and separate discovery layers, it's easier plan to become a systems librarian, yet many still say they fell into the job "accidentally."

The *how* behind falling into this new role is different for each of us. Sometimes accidental system librarians offered to help on a technology project, sometimes their superiors assumed that they known more about computers than their colleagues, and sometimes they were just in the right place at the right time. Given the variety of ways a person can become a systems librarian, we come to the rowith different combinations of skill sets, knowledge, and comfort with technology. In many cases, the may mean we've had to learn on the job.

In late 2010 through early 2011, 192 systems librarians responded to an online survey about the experiences. (The survey questions are reproduced at the end of the book as Appendix A.) The responses are quoted throughout the book to help provide insight into the lives of working system personnel in libraries. Many of the survey respondents emphasize the "accidental" nature of the careers. Typical comments include:

- "I came into the field in the late '90s when it was fairly new and technically-oriented peop were desperately needed. My current employer recognized that I had a knack for it, encouraged me to pursue it."
- "I applied for a job as an adult service librarian with a technological focus, particularly Web 2 technology. As we became more interested in evaluating other forms of technology, whether be ebooks and audiobooks, upgrading our library ILS system, or new website functionality, the administration realized that we need someone to take this role full time."
- "I had a small technical background and interest from my help center jobs, took systems cours in library school, and then got a library manager position where a substantial chunk of my tin is spent on the ILS and websites."
- "I started as a parapro cataloger and loved making things fit. Since I work in community colleg being a cataloger often means being the systems person as well."
- "It was not at all what I envisioned myself doing but rather it happened more by default. I w more interested and more knowledgeable about library technology than anyone else in the

- "In the right place at the right time: [I] was the only one in technical services with comput experience when we started delving into automation."
- "I created our systems department. As computers and technology made further demands on the library and its staff, I stepped forward and solved problems. I was often ahead of the university computer center (e.g., use of and development of open source software, database-backed activates by pages)."
- "Fell into it ... the small public library where I worked needed one and no one else wanted to dit. I had been the backup systems administrator for the ILS because I was the technical servic librarian. It was easy to slide into being *the* sys admin."
- "It was accidental. My first job out of library school started getting more and more focused computers and online systems, and there was no one who wanted or knew how to work on ther I stepped in, and it became my whole job."

Another common theme among survey respondents was that formal training was not offered them as part of their library school education. Until relatively recently, many MLS programs did no offer systems-related courses. When I tell people that I was required to take one systems class in no LIS program, they are often surprised. However, I found it to be one of the more interesting class offered—a sign that I had chosen the right focus in libraries. While this systems class was not among the classmates are organized, a sket that all systems librarians need to foster.

The fact that so many librarians came into systems accidentally can probably be traced back to the fact that librarians love to solve problems. Many of us ended up in our current roles simply because we were on a committee working on a new technology project and volunteered to manage something or had a creative way to solve a problem. As Rachel noted in the first edition of this book, "[O] truism of library work is this: If you do something once, it becomes yours forever."²

Even today, a decade after the first edition of this book was published, we find that literature of how to manage as a systems librarian is sparse. Search for professional development titles on how catalog or conduct a reference interview, and you'll have your pick of many titles, but general guid on the roles of systems librarians just aren't written. What we do find are books on technology-related topics and books that will walk you through setting up a network or managing an integrated librar system. While these titles are useful, they aren't always written with systems librarians as the intended audience. It is for that reason that we offer you this updated edition of *The Accident Systems Librarian*.

Throughout this book, you will find advice and information to help you manage and interact will computer technology in your institution, whatever your level of systems responsibility. Chapters through 4 provide a background in systems librarianship and outline the skills you will most like need on the job. Chapters 5 through 7 explain how to take what you learned in library school or roles prior to becoming a systems librarian, such as research, communication, and organization knowledge, and translate them into a successful career managing systems. Chapters 8 and 9 cov continuing education, both for yourself and for your colleagues, including teaching adults how to unew technologies and where to find training for yourself.

Chapter 10 addresses staff management and other administrative tasks, while Chapter 11 cove

integrated library system migration. Chapter 12 provides insights on how to find a job in the field (you are looking for a second career or are interested in becoming a systems librarian) and how to de with the stresses that will inevitably come with your new role. The conclusion and appendices rour out your whirlwind course of instruction, providing resources for further reading and study. Whi tips, suggestions, and descriptions of technologies are included throughout, this is not a "how-to guide outlining every aspect of your library's web presence or integrated library systems. Instead, the goal here is to start you off with a good foundation and give you a toolbox of resources to help you move forward.

As I stated earlier, I have worked as a systems librarian, although not completely accidentally, in special library. Many of the recommendations in this book are based on my own experiences and tho of Rachel Singer Gordon, as well as on conversations with colleagues in a variety of library environments. I hope that you find systems librarianship as exciting and dynamic a field as we have and that these suggestions, resources, and stories prove helpful in your career. Please feel free contact me with your comments and reactions.

Nicole C. Enga nengard@gmail.co tasl.web2learning.n

Endnotes

- 1. Rachel Singer Gordon. *The Accidental Systems Librarian* (Medford, NJ: Information Today, Inc. 2003), 219.
- 2. Ibid., 4.

Chapter

Systems Librarianship 101: Defining System Librarianship

The systems librarian is a unique breed. The position requires someone who not only understands libraries and computers but someone who can put both fields into context.

—Patricia Ingersoll and John Culshaw¹

Coming up with a standard definition for systems librarianship is like lumping all technology togeth into the same category. Fitting the wide variety of tasks systems librarians engage in into one cohere schema is difficult. Depending on the size, type, funding, needs, and philosophy of their institution systems librarians may have duties as diverse as:

- Computer hardware selection, installation, purchasing, and troubleshooting
- Software selection, installation, purchasing, and support
- Local and/or wide area network administration and security responsibilities
- Internet support, including router, wireless, proxy server, and firewall configuration
- Security and stability of the public computing environment
- Webpage and/or intranet design and maintenance
- Managing the library's social network presence
- General help desk functions
- Database vendor liaison
- Overseeing the library's technology commons
- Electronic resource selection and implementation
- Original computer programming
- Digitizing, archiving, and cataloging document, audio, and video collections
- Staff and patron technology training
- Integrated library system (ILS) maintenance and automation migration, upgrades, and training
- Database development and programming
- Project management
- Creating technical documentation

- Acting as a liaison between library staff and computer services staff
- Writing/reviewing requests for proposals and required system specifications for vendors

Systems librarians may be responsible for any or all of these functions, for additional functions, for an entirely different (or as yet unimagined) set of duties. In addition to the specific technologic tasks in the previous list, they may also have budgetary and management accountability, as well responsibility for more traditional library functions such as reference and cataloging.

To add to the confusion, systems librarians may or may not have earned a Master of Libra Science (MLS).² Systems-related tasks may be a part of their jobs or comprise their full set responsibilities. Librarians may work as part of an information technology (IT) department, manage systems department, serve as a liaison to such a department, assume half-time systems duties, or exit as a department of one (or solo librarian), their library's sole source of automation support. The library may be part of larger systems or institutions that assume part of the burden of supporting technology in the library, or it may be a stand-alone library with no outside technical support (with the exception of some systems vendors). Each systems librarian position, therefore, comes with a unique blend of responsibilities.

Job titles of those who work with computer technology in libraries also vary tremendously fro library to library. A random sampling of titles from the systems librarian survey results in labels a diverse as:

- Information systems librarian
- Library webmaster
- Digital services librarian
- Manager of library systems
- Lead library systems analyst
- Eservices librarian
- Head of information technology
- Instruction and liaison librarian
- Library systems and digital collections administrator
- Virtual branch and innovative tech manager
- Metadata librarian
- Assistant director of technical services for library systems
- Systems manager
- Informatics librarian
- Web services librarian
- Integrated digital systems librarian
- Head of application development and management
- Systems manager/reference librarian

There are countless other variations on the theme. However, some librarians with automatic responsibilities, especially solo librarians or those in smaller institutions, will have no terms in the title indicating they have taken on such responsibilities.

As librarians, we tend to feel a certain level of discomfort with that which we cannot easi categorize. However, this variety in background, title, and tasks is confusing only if we allo ourselves to be blinded by the technological aspect. More traditional library positions also variemendously in scope and duties by type of library. No one could possibly suggest that reference librarians in a largely electronic news library; in a small, largely nonautomated, rural library; or in sizable research institution are not clearly serving as reference staff—even though the types questions they receive, the specific tools they use, and their daily tasks may look quite different. When matters is that these librarians are using their reference background to assist library patrons answering questions and researching topics of interest.

Note also that a number of the job titles in the previous list reflect systems librarians' dual roles systems and reference or in systems and technical services. Another difficulty in defining system librarianship occurs because librarians have historically taken on systems duties in addition to the existing responsibilities rather than stepping immediately into a full-fledged systems role. The assumption of technological duties often happens gradually so that systems work becomes identification an institution as belonging under an existing department rather than as a specialty in its own right Further, technology becomes so intertwined with all aspects of library operations that it seem difficult to define systems librarianship as a specific subfield; systems librarians have a hand running each department. As library technology becomes more complex and demanding, however many librarians who previously held one of these dual roles find the balance of their duties shift toward systems work. Given this inevitable shift, it may be useful again to think of system responsibilities in the same way we think of reference or technical services responsibilities. Even smaller institutions where one person tends to fill dual (or multiple) roles, departments are responsibilities are clearly identifiable as belonging to specific subfields of librarianship.

Another difficulty in definition stems from the tendency to define systems work even now outside the purview of librarianship and as falling in the realm of the IT department or as the responsibility of computer technicians. This view is shortsighted, reflecting nostalgia for precomputerized era, a false separation of computer and other technologies, and a lack understanding that librarians have been involved with the development of technologies that mulibrary needs from the very inception of such tools. (The development of the MARC standard is preeminent example of such involvement.) We should also remember the libraries' involvement with and use of technologies from the typewriter to microfilm, each of which was used and supported in and served to transform—our institutions long before the computer age.

We cannot abandon such an integral aspect of library operations to nonlibrarians, since the ways which we implement and support technology in our libraries affect all of our departments as services. Supporting computer technology does not make you a technician; it makes you a libraries with systems responsibilities. Michael Porter sums it up best, saying, "Today, technology is powerful driver of change in libraries, and it will stay that way for the rest of your career. Librarianship and systems responsibilities go hand-in-hand, and their skill sets are bo complementary and required for any computer services librarian.

Eric Lease Morgan, librarian at University Libraries of Notre Dame, notes: "I consider myself

be a librarian first and a computer user second. My professional goal is to discover new ways to use computers to improve library and knowledge services. Therein lies the essence of system librarianship. Systems librarianship is the art and science of combining the principles of librarianship with the abilities of computing technology [emphasis in original]." Because of this, non-MLS system personnel can discover that they have as much learning to do on the library side as librarians what assume systems duties have to do on the technology side. The successful systems librarian blends be outlooks and skill sets in finding the appropriate balance for her institution.

Library Skills and Communication

A library background is crucial to effective systems work in libraries. One reason librarians tend complain about institutionwide systems departments staffed with non-MLS computer scien personnel is because this leads to gaps in communication and outlook between IT and the librar MLS systems librarians working in institutions with separate IT departments often find themselv bridging these gaps, which highlights the necessity of communicating equally well with technic staff, librarians, the library administration, and patrons. One of the most important roles of an systems librarian in a larger institution is that of liaison between librarians and the IT department and, in smaller institutions, that of liaison among patrons, librarians, and the technology itse Communication and people skills are paramount for any technology librarian, as is the ability to viewsystems issues from both a library and an IT perspective.

Many survey respondents emphasize the importance of bridging such communication gaps, and found that I was often used as a translator between IT and the librarians when I was working as a we developer at a library. Sandra Gisela Martín, library director at Universidad Católica de Córdob expressed her opinion that "the systems librarian must [have] fundamentally good communication skills." One library supervisor stressed the role of a systems librarian as a people person: "Althoug you'll work with systems, the people running them are key. Work to establish and maintain excelled working relationships with personnel in all departments." And Eileen Lutzow, systems librarian Charleston Southern University, finds that in some libraries "you most likely will be the only of doing anything related to technology, and your biggest asset will be an ability to translate technology speak to library-speak."

As you advance in your career, and the more you learn on both the library and the technical side the more effectively you will be able to communicate with all these constituencies. Your library background will give you credibility with staff and patrons, while your technology knowleds provides a way into the world of IT. I found that my computer programming degree went a long was toward helping me work with my IT department. Librarians who work in institutions with a separa IT department must gain familiarity with technology in order to build their credibility and wo effectively with an IT staff. Your familiarity will also help you see things from the perspective of I staff members and understand the reasoning behind their actions.

It is precisely because technology is interwoven into library operations that systems librarians a essential in ensuring that technology always serves the needs of the institution. If a library lac systems support or lacks librarians who are able to interface with its IT department, technology meither fail to meet institutional needs or it will just plain fail. One reason why library skills are useful in managing library technology is that systems librarians use their core principles

librarianship to communicate with all library constituents and determine how technology can be use most effectively. This includes communication to bridge the gap between techies and nontechies communication with library patrons to ensure that their needs are being met by the curre technological environment; communication with library staff and patrons when training, providing technical support, or creating documentation; communication with the library's administration ensure they understand the importance of funding technology and training; and communication with software and hardware vendors to convey the library's unique needs and existing technological environment.

Despite the popular image of librarians as asocial individuals locked away in rooms filled widusty books, we have always recognized the importance of interacting with others. This is doubnecessary in a systems environment where miscommunication is all too easy. As one systems libraria said, "Learn people skills! Even though you're working with technology, you need to be able explain to the reference librarian or administrator why things are being done the way they are."

While systems librarians coming from a library background must work to extend their technology.

skills and vocabulary to communicate effectively with IT departments and vendors, systems personn in libraries who come from an IT background have the opposite problem in this liaison role. The have the technology skills, but they may lack the background to use them effectively in a librar environment or to communicate effectively with library staff and users. IT personnel tend to be heard on jargon and may emphasize library systems over the people who use them. IT people who fit themselves in library roles need to acquaint themselves with the unique requirements of libraries at with the user-centered foundations of the profession. One library systems administrator answering the survey recommended that "[e]ven if it's only for 2 weeks each, work for or shadow a circulation state member, a reference librarian, an instruction librarian, and a tech services staff member to really get feel for their needs." IT people (and this also extends to systems librarians) must also realize the importance of keeping the lines of communication open when there is a problem with computing equipment or services. While nontechnical library staff will understandably be frustrated when service or machine is "down," they will be more understanding if they are kept informed about the progress of the situation.

Realize also that there is no one right way to communicate with others in your institution. One

technology effectively in their day-to-day activities. There are a number of ways to do this, ranging from informal one-on-one conversations ("Did you know ...") to formal training classes to providing printed and online documentation. You might create a regular newsletter or blog of technology tip that you can post to your staff intranet, send via email, or distribute in print—whichever will react your colleagues most effectively. You can create tip sheets and brochures describing various aspect of the library's computer technology that public services staff can hand out to patrons and refer when assisting library visitors. You can archive tip sheets in a subject-divided binder at public services desks or create a section for this information on your library website or intranet for easearching, so that staff can quickly find half-remembered information. You can create a "what's ne in computers" slideshow or screencast that staff members can run on their own PCs. You can also set out tips and reminders explaining how to accomplish occasional tasks, since people are likely to forgif they do not use a feature often. Finally, you can create a regular podcast or videocast that answer

your goals, for example, will be to communicate to nonsystems staff members how they can u

frequently asked questions for your colleagues on how to perform specific tasks.

Think of creative ways to get people to use technology more effectively and efficiently in your overvironment. When creating these resources, however, keep your audience in mind. Do not infli

excessive jargon on nontechnical library staff, and do not overload them with extraneous information Keep tips and instructions straightforward, to the point, and useful. Your job is to help staff member use technology to do their jobs more effectively.

If your library is large or tends to have heavy turnover, consider creating a computer procedure manual for public services staff that explains common uses of technology in the library. You can use this while training new staff members, and newer individuals can use this as a resource when they a alone at the desk and no systems support is available. The manual should outline basics such as the process for turning on and logging in machines each morning, lists of available software on the public workstations, basic troubleshooting steps for common problems, and so on. Consider creating equivalent manuals for other departments as your institution's needs dictate; work with departments heads to see what specific processes their staff might need to have outlined for them. Publish the guides online and make sure that they are searchable. This way they will help both the new an existing staff in finding answers.

Lastly, understand the necessity of effective communication with your library's administration. You will need to help administrators understand the importance of funding technology project staffing technology departments, and allotting sufficient time and resources to your efforts. members of your administration are less technologically savvy, they may have difficulty seeing who such time, funding, and personnel should be allocated to technology when other departments an projects are also clamoring for funding and attention. You will need to work with your administration on grants, technology plans, and large-scale projects, which requires you to outline the benefits your proposals and to describe ideas in nontechnical language. (See more on this in Chapter 10.) You will also need to help your administration understand the reasons why technology and relate expenses such as staffing and training need to be ongoing. Too often, institutions have funded technology as a one-time allocation on an ad hoc, as-needed basis; you will need to convince the about the necessity of consistent funding.

Yes, You Are a Systems Librarian

these points.

Any library, no matter how small, needs to find someone who is willing and able to take responsibilities for its technology. As soon as one computer is set up on a desk, one ebook reader purchased, or on tablet computer handed out, somebody needs to support that technology—whether or not that librate has a formal IT department and whether or not anyone is formally prepared to assume that role. If you have found yourself in one of these accidental roles and your job title and compensation have not changed to match your new duties, do not hesitate to bring up the topic with your library administration. (See more on negotiating promotions in Chapter 12.) Take the initiative to try and clarify the boundaries of your own position, and offer to help draft a new job description that reflect your systems as well as your nonsystems responsibilities. Most administrations recognize he important smoothly running technology is in today's library and will be willing to work with your

Although some librarians' technological skills obviously become more specialized to fit the institutions' needs, all librarians now need a basic facility with technology. The more you know, the more effectively you can use technology to serve your staff and patron needs, instead of the other was around. You may not have defined yourself as a systems librarian, but if you have any responsibilities

for supporting and implementing technology, you have responsibilities that fall under the cloak systems librarianship—in the same way that a children's librarian who works at the adult reference desk once a week can be credited with having reference responsibilities. In some sense, this makes all systems librarians. As Mayo and Nelson note: "Everyone working in libraries today is part of the technological revolution whether they want to be or not." 5

It's worth taking the time to learn the skills to work effectively in your position. The more you learn to use your library background to help you discharge your systems responsibilities, the most effectively you can carry out this part of your job. As one systems/reference librarian wrote in his survey response, "I think librarians are so well-versed in teasing out any applicable knowledge from problem. Systems can often be like patrons, with their vague messages and insufficient communicated demands, that teasing out the information failure of a system versus a patron often involves the same skill set. A good reference interview, between myself and the system, or sometime just myself, will often lead to a solution."

Of course, systems librarians with full-time responsibilities for technology in their libraries we devote more of their time and education to their specialty. But realizing that we all share simil responsibilities helps bridge the perceived gap between systems librarianship and other subfields the profession. This realization also encourages nonsystems librarians to take responsibility of familiarizing themselves with technology and not depending on the systems librarian for day-to-datasks such as changing the printer toner and minor technical troubleshooting. All librarians to day require technological literacy to carry out their duties effectively. Nonsystems staff members need be comfortable with modern technologies such as ebook readers, tablet computers, and mobile phon (among others) to effectively assist patrons in using such technology. Public services personnel a also fielding more technical questions from their patrons who expect librarians to be knowledgeab about technological issues. Eric Lease Morgan says it best when asking: "In today's world, why wou anybody trust a librarian, whose profession is about information and knowledge, who hadn't mastered a computer?" You may have some difficulty convincing your fellow staff members of this truth, by librarians today must come to realize that computers are integral to both library functions and the own jobs.

Writing in *American Libraries*, Joyce Latham points out that "True functional literacy in a libra organization begins when frontline staff start to accept responsibility for how their technic installations function and explore just how much they can do with them. Another important moment the development of institutional literacy occurs when administrators begin to explore ways crisscross these service areas, involving librarians in technical problem solving and technical staff public program design. Creating avenues for communication and partnership between these two groups is key to developing the inherent potential of technology." Literacy today includ technological literacy, and as librarians, we cannot pass such literacy on to our patrons if we do n first obtain basic technological skills of our own.

Another part of your responsibility as a systems librarian will be to help transfer appropriate technological skills and a comfort with technology to other library staff—and to your administration. Find more on training staff and patrons in Chapter 8, but for now, realize the importance communication skills in inculcating technological literacy and the importance of having technologically literate staff. This is as true in the smallest public library as it is in the large research institution.

Establishing Competencies

If you are in a larger institution with staff from varying backgrounds and with varying levels computer competence, it will be useful to establish basic technological competencies for all staff. Course, official computer services staff will be expected to attain a higher degree of competency will library systems than will nonsystems personnel, but you can identify and require the necessary minimum requirements for all staff so the technology in your library runs smoothly. Competence define the basic computer/technology skills expected of library staff, so they must be observable measurable, and improvable. Establishing computer competencies for everyone recognizes the technology is integral in all departments, allows staff to use technology effectively to me institutional needs, and lets systems librarians concentrate their efforts on more complex issues rath than continually helping other staff members with the basics.

Your library's technology competencies should reflect the specific skills that are necessary for staff to carry out their daily duties effectively. To determine individuals' existing levels of competency with your institution's systems and software, it's useful to create a checklist of desired skills and then to let staff members evaluate their own levels of comfort with completing those skills. Emphasize that this is not a test and that no one's job performance will be graded on these sheets. The goal is for staffers to answer honestly so that you can evaluate the areas in which you need to shore staff skills and provide targeted training, cheat sheets, and other resources to help people utechnology to do their jobs well.

Staff Competencies

Nearly every library position, whether professional or paraprofessional, now requires a computer, as more and more are requiring the use of mobile devices such as tablets and smartphones. For the sal of library productivity and staff sanity, employees need to learn the skills to use these devices in the daily work. When developing your competencies, target them to the tasks that the staff will do in the daily activities. In a larger institution, it will be useful to create competencies for each job description or classification; in a smaller library, competencies by department may suffice. For help wi developing competencies for your librarians, review Technology Competencies and Training for Libraries by Sarah Houghton-Jan.⁸ For an example of thorough staff technology competencies, see the State of North Carolina's list of (www.statelibrary.ncdcr.gov/ce/images/Competencies.pdf) for librarians in the state. The University Minnesota-Duluth has posted a more general set of the technical competenci (www.d.umn.edu/itss/policies/techplan/staff.html) recommended for its staff. These competenci include items such as the ability to "create a secure password" and "access and use general libra resources (e.g., catalog, databases, and electronic journals)." Looking at these more gener competencies may be useful as a starting point for creating your own set, which can be customized necessary for your institution's computing environment. One last useful example is Maryland Eastern Shore Regional Library's set of core competencies (www.esrl.org/Core Competencies.pd

If your library's environment includes a number of different software packages, electron databases, and hardware configurations, you might consider dividing these core competencies subject area. Create a competency checklist (or one basic and one advanced checklist) for operating system usage, each office program, internet usage, email software, basic hardware knowledge, Weight and the software was a subject area.

which includes a number of resources for self-study and review.

2.0, mobile devices, your ILS, and so on. Be sure to update these lists whenever the library upgrad or changes software packages; keep them current so that they are always usable tools. Remember never assume that everyone must know how to perform a specific task. It never hurts to list all of the software and hardware in use in your library.

After staff members have been tested (or have self-tested) on these technological basics, use the results to determine whether training is needed to get staff to appropriate levels of technic knowledge. (See more on creating and implementing a staff training program in Chapter 8.) Form training for the staff can be supplemented with online tutorials, cheat sheets, and other self-studenterials. Once staff members have completed training, let them retest their skills on you competency checklists.

If your library's environment includes a number of different software packages, electron databases, and hardware configurations, you might consider dividing these core competencies is subject area. Create a competency checklist (or one basic and one advanced checklist) for operating system usage, each office program, internet usage, email software, basic desktop hardware knowledge handheld hardware knowledge, Web 2.0, your ILS, and so on. Be sure to update these lists whenever the library upgrades or changes software packages; keep them current so that they are always usable tools.

Systems Competencies

After mastering the basic competencies required of all staff members, systems personnel should the acquire the additional competencies necessary to run the library technology smoothly. While bas staff competencies will tend to be similar for personnel in most libraries (who mainly use standard browser software, ILS modules, office software, and so on), the specific competencies required systems personnel will look radically different in different institutions. These competencies need match the duties assumed by each systems librarian and the software and hardware environment their institutions.

Sample Questions for a Firefox Competency Self-Assessment Test

Please rate your comfort level on a scale of 1 to 3 with completing the following tasks, with 3 being "very comfortable" and 1 being "not at all comfortable."

I am able to type an internet address into the address bar to visit a particular webpage.

1 2 3

I am able to use Print Preview to select certain pages of a document for printing.

1 2 3

I can use the Find function to locate a word or phrase within a particular webpage.

1 2 3

I can copy and paste a web address from my email or other application into Firefox.

1 2 3

I know how to use toolbar buttons to move back and forward, and to go to the homepage.

1 2

I know how to clear the history in Firefox.

sample content of The Accidental Systems Librarian, Second Edition (The Accidental Library Series)

- download Simone Weil and Theology (Philosophy and Theology) pdf, azw (kindle)
- read online The Saga of the People of Laxardal and Bolli Bollason's Tale (Penguin Classics) pdf, azw (kindle)
- download online Make Your Home Among Strangers: A Novel
- download online The King in Love: Edward VII's Mistresses online
- http://metromekanik.com/ebooks/Beautiful-You--A-Daily-Guide-to-Radical-Self-Acceptance.pdf
- http://honareavalmusic.com/?books/Scorched-Earth--Black-Snow--Britain-and-Australia-in-the-Korean-War--1950.pdf
- http://deltaphenomics.nl/?library/Make-Your-Home-Among-Strangers--A-Novel.pdf
- http://aircon.servicessingaporecompany.com/?lib/The-King-in-Love--Edward-VII-s-Mistresses.pdf