

CONTENTS

| | |
|--|-----|
| Acknowledgments | vii |
| Introduction | 1 |
| 1 Collaborating for Access | 14 |
| 2 The Dreamers | 37 |
| 3 A Stunning Announcement: Libraries Jump On Board | 72 |
| 4 Unlocking Access | 96 |
| 5 The Academy Protests | 105 |
| 6 Publishers, Legal Issues, Settlement | 128 |
| 7 Seeking Complementarities: The Emergence of HathiTrust | 160 |
| 8 Implications | 188 |
| Epilogue | 205 |
| Index | 211 |

Introduction

On January 3, 2020, the *Washington Post* published a story about two graduate students working to save the University of Virginia's card catalog. Literature doctoral candidates Neal Curtis and Sam Lemley learned that the four million cards in the library's catalog that had not been updated in two decades would be discarded to make way for a massive renovation of Alderman Library. All the library's current holdings were included in an online digital catalog, so the outdated card catalog was understandably used by very few. Library administrators had determined that, at a cost of \$750,000, it would not be worthwhile to scan the cards and create a digital surrogate of the outdated catalog. Instead, it seemed sensible to discard the card catalog, as so many other libraries have done since the 1970s when libraries began to create machine-readable descriptions of their collections instead of creating iconic cards that represented each book in the library. The dedication of the two graduate students prompted volunteers to help pack the catalog cards into 798 boxes and store them in an off-campus facility.

2 INTRODUCTION

They have bar coded each box for retrieval so that students and faculty will be able to recall a box of cards and look at the entries and notes about specific books. This charming story of students volunteering to pack boxes to preserve what Sam Lemley described as “an accurate, preserved-in-amber view of what the library was in the twentieth century” is a good introduction to the current challenges: what will be the library of the future?

The Virginia students recalled a time when the university library built a collection of books that served the needs of scholars and students. But the university librarian, John Unsworth, faced a new set of challenges that propelled him to raise money for and undertake a massive renovation of the library. Part of the challenge was to bring the building up to fire, safety, and accessibility codes, but a much bigger challenge was that most students and faculty wanted more than print collections from the library. They wanted access to the galaxy of information resources that exist not only at the University of Virginia and but also everywhere else, not just in print form but digitally as well. There is no card catalog for today’s information universe.

The end of the twentieth century and beginning of the twenty-first marked the transformation of libraries from builders and preservers of collections to information nodes that connect information seekers with resources from all over the world. This book focuses on what is perhaps the signal milestone in that transformation: the entry of Google into the library arena with promises of making all the world’s information available to everyone.

With news of Google’s plans, a shock wave went through the academic library community. Some librarians, eager to see an acceleration of digital activity, embraced the concept of a universal digital library and began advocating for change.

Others argued that librarians were experts in locating and validating information resources; they did not appreciate other players moving into their domain. At its core, the Google digitization project challenged the definition of “library.” A large literature has developed over the past decade in the field of “Google studies,” with scholars seeking to examine the effects of consumer technology companies, pursuing a combination of business growth and societal disruption. Within this field, there are many episodes where Google dipped its toes into a new sector and left an entire ecosystem spinning in disruption. Our goal in this book is not to offer a final judgment of Google but rather to explore deeply one example of its efforts to target an information space, in this case the important legacy of published materials held by libraries, and the results on an existing sector and ecosystem.¹

Ultimately, the rapid change in user expectations and professional expertise with digital technology led to intense conversations within the library and academic communities about

1. See, for example, Siva Vaidhyanathan, *The Googlization of Everything (And Why We Should Worry)* (Berkeley: University of California Press, 2012); Ken Hillis, Michael Petit, and Kylie Jarrett, *Google and the Culture of Search* (New York: Routledge, 2013); Ken Auletta, *Googled: The End of the World as We Know It* (New York: Penguin, 2009); Amy Langville and Carl D. Meyer, *Google's PageRank and Beyond: The Science of Search Engine Rankings* (Princeton: Princeton University Press, 2012); Jean-Noël Jeanneney, *Google and the Myth of Universal Knowledge: A View from Europe*, trans. Teresa Lavender Fagan (Chicago: University of Chicago Press, 2007); and Elad Segev, *Google and the Digital Divide: The Bias of Online Knowledge* (Oxford: Chandos, 2010); as well as broader treatments such as Safiya Umoja Noble, *Algorithms of Oppression: How Search Engines Reinforce Racism* (New York: New York University Press, 2018); Christian Vandendorpe, *From Papyrus to Hypertext: Toward the Universal Digital Library* (Champaign: University of Illinois Press, 2009); Shoshana Zuboff, *The Age of Surveillance Capitalism: The Fight for a Human Future at the New Frontier of Power* (New York: PublicAffairs, 2019); Evgeny Morozov, *To Save Everything, Click Here: The Folly of Technological Solutionism* (New York, PublicAffairs, 2013); and Jaron Lanier, *Who Owns the Future?* (New York: Simon and Schuster, 2013).

4 INTRODUCTION

the roles and responsibilities of both libraries and corporate entities, but meaningful organizational change in academic libraries was slower. The story of Google's digitization ambitions telescopes the dramatic changes in libraries, readers' research habits, and, perhaps, even reading itself.

Research libraries in particular came under pressure to adapt to this emerging reality. The notion that any library, no matter how large, could collect comprehensively the knowledge that was being produced was clearly not possible. With digital technology, many of the quality control mechanisms that had been in place for decades, for example, peer review of both journal articles and books through publishers with established reputations, now had to compete with preprints, open access publications, and start-up publishers with an array of review practices (some of them predatory). Libraries, no longer focused on collecting the best of the published record, began to think of their mission as wayfinding for their users. What is the universe of material on a particular topic? How does the reader find out about it?

In the midst of this transition from collection building to providing information services, Google made its dramatic announcement that it planned to digitize published books, which would be discoverable along with the websites Google was rapidly adding to its search capability. It knew, in a way that many others would only later recognize, that the layers of gatekeeping needed to produce publications and for the great research libraries to collect them would add significantly to the quality of the information available online.

In some respects, the Google project to digitize millions of books might have relieved research libraries of their stewardship responsibilities for legacy collections, allowing them to make the transition to digital libraries more quickly. But at

least some librarians and a few scholars hesitated to entrust a corporation with digital library development. The story we tell here is how Google attempted to enter, and in some senses disrupt, the traditional scholarly communications systems that served the universities, their scholars and students, and their libraries for decades. We describe the competing forces that bolstered or fought against Google's efforts, as well as the fallout after the Google book digitization project fell into a legal quagmire. Finally, we describe the attempts to achieve some of the goals of the Google book digitization project in other ways and speculate about other possible scenarios that will benefit the scholarly community.

Looking back on the development of mass digitization and the efforts to thereby unlock access to our legacy of published books, it is clear that while many individuals and organizations played vital roles, none was more significant than that of Google. Even though the project that resulted and the impacts that it had were ultimately limited relative to the vision, millions of books have been digitized, the information they contain was made more discoverable, and access to many of them improved dramatically.

Google was able to lead because it was bold and agile. Larry Page had been interested in digitizing books since his student days at Stanford in the late 1990s. In 2002, he and Marissa Mayer determined that it would take forty minutes to digitize a three-hundred-page book. At-scale progress began to be realized when Dan Clancy was appointed to head the digitization project for Google. The team soon developed partnerships with publishers and then large research libraries in the United States, the United Kingdom, and several other countries. Paul Courant, the university librarian and former provost at the University of Michigan, and his colleague John Price Wilkin,

6 INTRODUCTION

then Michigan's associate university librarian, would provide especially important leadership for both the library digitization efforts and later preservation initiatives.

For nearly a decade, Google and its partners aggressively pursued the dream of a digital universal library. When, on March 22, 2011, the U.S. District Court for the Southern District of New York rejected the legal agreement that had been proposed by Google after being sued by publishers and authors, the utopian library fizzled into little more than dreamy aspirations.

Looking back on the failed agreement in 2017, *Atlantic* journalist James Somers reflected on what had been lost:

You were going to get one-click access to the full text of nearly every book that's ever been published. Books still in print you'd have to pay for, but everything else—a collection slated to grow larger than the holdings at the Library of Congress, Harvard, the University of Michigan, at any of the great national libraries of Europe—would have been available for free at terminals that were going to be placed in every local library that wanted one.²

But this highly desirable digital library was not realized. Somers wrote, “When the most significant humanities project of our time was dismantled in court, the scholars, archivists, and librarians who'd had a hand in its undoing breathed a sigh of relief, for they believed, at the time, that they had narrowly averted disaster.”³

2. James Somers, “Torching the Modern-Day Library of Alexandria,” *Atlantic*, April 20, 2017, <https://www.theatlantic.com/technology/archive/2017/04/the-tragedy-of-google-books/523320/>.

3. *Ibid.*

The library community was not as monolithic as Somers seems to suggest. For some portion of librarians, at least, for some scholars, and for some futurists, the Google project promised a vision that they had been dreaming of for years. For the advocates, the Google book digitization project was the strategy for libraries.

For several decades, multiple individuals and organizations have seen book digitization as the best strategy for creating a universal library. This is our analysis of how the Google book digitization project developed, how other organizations and individuals responded to the advent of large-scale book digitization, and the implications for libraries, publishers, and the scholarly community.



Google's dream of a universal library was a technology-centric version of an old idea. Throughout history, scholars, librarians, and others who yearn for knowledge and learning have dreamed of building a comprehensive library that is accessible to all. The Great Library of Alexandria, beginning in 288 BC, aspired to collect all of the papyrus scrolls that had been written. The Ptolemaic rulers intended the library to be a collection of all extant knowledge. They sent agents to many different places to purchase as many texts as they could. Because Alexandria was a port city, they searched incoming ships for texts and made copies of them for the library.⁴ In modern times, the great research libraries such as Harvard, the British Library,

4. Roy MacLeod, "Introduction: Alexandria in History and Myth," in *The Library of Alexandria: Centre of Learning in the Ancient World*, ed. MacLeod (New York: I. B. Tauris, 2004), 1.

8 INTRODUCTION

and the Library of Congress, at least until recently, described themselves as “libraries of record,” and they aspired to collect as much of the important scholarly and cultural record as possible.

As academic research expanded after World War II, publishing exploded, and libraries realized they could never acquire all that would interest their readers. Yet, the technological revolution inspired a great many library leaders to imagine how they would transform their organizations into the “universal library.” In the 1960s, Library of Congress giants William Welsh and Henriette Avram believed that the enormous bibliographic database of that institution would become the core of the universal electronic library. Later, OCLC founder Frederick Kilgour would argue that a network of institutions could do that job more effectively. Computer scientists would question if we needed librarians at all if we focused instead on computational power to provide access to the entire corpus of knowledge.

But the digital transformation of our economy and society in recent decades has given rise to unbearable tensions—between global and hyperlocal, between universal access and filter bubble, between freedom and control, between openness and truth. During the industrial age, the library served as one of the greatest democratizing forces in American society. The network of public and research libraries was built on an aspiration (even if inequitably achieved) for any book to be available to any American without payment, yielding rich rewards for the economy and citizenship. A similar model for libraries was adopted in a number of other countries as well. And, no less than publishers and journalists, libraries too have been forced to wrestle with the tensions of the digital transformation.

Past generations of librarians focused on the needs of their own communities—their students and faculty members, not

only those of the present but those of the future, in the case of the academic research libraries that feature prominently in our story. They spent handsomely to develop their collections, pushing aspirationally toward comprehensiveness in many cases, to provide access for local constituencies.

At the same time, they recognized that it was not possible to meet all of the research needs of their scholars and from the late nineteenth century began building sharing networks that made the academic library not a stand-alone provider but part of a network linked by lending. The pressure on research libraries to provide timely and comprehensive access to scholarly resources grew dramatically with the onset of World War II as the federal government became much more interested in the nation's scholarly capacity in a global environment.⁵

To achieve this end, libraries have developed mechanisms for building what Lorcan Dempsey has called a collective collection.⁶ They have shared information about their collections with one another as a mechanism for coordinating their collecting activity. They developed a robust, frequently used, and increasingly streamlined interlibrary loan system to provide access to one another's holdings.

But, ultimately, libraries have responded more to local needs than national imperatives. And, perhaps more importantly,

5. For example, even as individual research libraries aspired to vastly increase the local collections available to their scholars, key academic and library leaders met in Farmington, Connecticut, to find ways to ensure a network of libraries from which the entire scholarly community could draw. The Farmington Plan ultimately failed after long years of trying, but it is the best example of how the dream of comprehensiveness would shift from the individual library to a "collective collection" shared across the libraries on behalf of their users. Ralph Wagner, *A History of the Farmington Plan* (Boston: Scarecrow Press, 2002).

6. Lorcan Dempsey, "The Collective Collection," August 5, 2005, <https://www.lorcandempsey.net/orweblog/the-collective-collection/>.

10 INTRODUCTION

US libraries have lacked a vehicle to coordinate and prioritize their work.

Even before Google developed an interest in book digitization, research libraries had recognized the importance of digitizing their collections. And the dreams of librarians began to shift away from individual library comprehensiveness toward a vision of providing free, open, and public access to all material in digital form. But as with the effort to build a collective collection, libraries found coordination difficult and resources scarce. By 2004, they found themselves with strong third-party interest in their work: an outside technology company in growth mode with seemingly unlimited engineering and financial resources to support their aspirations. When Google stepped into the picture, digitization took off like a rocket.

In this book, we have set out to tell a story about how the vast intellectual heritage of our civilization has become (or will come to be) universally accessible. It is the story of how librarians, scholars, technologists, and entrepreneurs have imagined a global, accessible knowledge source and the extent to which they have succeeded or fallen short in realizing it. This is a story of how digitization has been viewed as the best hope for making our scholarly and cultural heritage universally accessible, and also a story about a sector not yet prepared to leap into the future. It is a story about the limitations of disruptive technology in the face of well-coordinated incumbent market leaders, and a story in which some librarians have limited the dream because of financial restrictions and failure of will. It is also a story of the validated knowledge that is still all too absent from an online ecosystem filled with disinformation. And it is a story of how corporate America made the dream palpably real by using computer engineering to productive ends. In this story, there are many actors, all of good intentions. Inevitably,

it is also a story of limitations and failures to collaborate. It is a story of how comprehensiveness exists only at a scale greater than any individual organization. Finally, it is a plea to fulfill the dream of making knowledge universally accessible to a world drowning in data and information.

We call this a history of digitization, even though large-scale digitization efforts have been under way for only slightly more than a decade. Digital technology has resulted in such rapid change that libraries and scholarly communication have been transformed in that short period. In viewing the revolutionary decade, we trace the history of library initiatives to digitize and make accessible their legacy collections; we describe the individual efforts to harness digitization for the public good as well as the collaborative efforts to achieve the goal. We look at successes, disappointments, and failures. And throughout, we continue to see possibilities and call on libraries to redouble their efforts to contribute to the massive digital library that can open doors to knowledge for students, scholars, and citizens of the world.



In this book, we examine different perspectives on this ideal future. In the first chapter, we trace the history of quests to provide broad access to knowledge and their relative success or failure in fulfilling the dream. We explore the print-based attempts to make scholarly resources more widely available; we follow with those efforts made possible first through automation and later with digital technology.

Chapter 2 goes into detail about the technologists' aspirations for digital technology. Brewster Kahle, researchers at Microsoft, and faculty at Carnegie Mellon University, in

12 INTRODUCTION

particular, had firm notions of societal changes that technology could enable.

Google and its brash rhetoric burst on the scene in chapter 3. Two brilliant computer scientists begin to make the case for a universal digital library. Google was new and not that well known when Sergey Brin and Larry Page first made this argument, and it was frequently met with skepticism. But they had financial resources and they worked fast. Google became a force to be reckoned with.

Chapter 4 deals with the public's expectations for access and how enthusiastically Google's announcement of plans to digitize books was received.

In chapter 5, librarians and scholars begin to organize to respond to the threat or the opportunity of Google. Some of the initiatives were short-lived, but others have had a transformational effect on the nature of scholarship and recorded knowledge.

The lawsuit and the aftermath of the Google settlement are the centerpiece of chapter 6. How did the case develop and why did the proposed settlement fail? More importantly, what opportunities were missed and, now in hindsight, what have been the lasting effects of the Google book digitization initiative?

In chapter 7, we trace some of the efforts to fill the void after the Google project. We examine the possible role HathiTrust may be able to play in building a universal collection.

In the final chapter, we make our own observations about what book digitization in particular and other efforts to provide digital access to scholarly information more broadly have contributed to universal access. Where has there been progress? What else remains?

Finally, in an epilogue, we acknowledge the many changes that emerged in the COVID-19 era, when a greater reliance on technology became a principal strategy for protecting public health, not least in the provision of library services. Though faint, a picture of the future of libraries begins to come into focus.

In addition to capturing an important aspect of scholarly history, we raise a lot of questions about the digital future for the scholarly and information communities. We expect—or at least hope—that university administrators will engage their faculty in discussions about the implications for scholarship, teaching, and the broader public good. And library leaders will renew their efforts to complete the digital agenda that Google started more than a decade ago.

INDEX

- Adler, Allan R., 138
Adobe Systems, 120
Alderman Library, 1–2
Allen, Paul, 78
Amazon, 44, 74–75, 90–91, 94, 113, 115,
133–134, 137, 146, 150, 198
American Antiquarian Society, 69
American Association of People with
Disabilities, 103
American Association of University
Presses, 138
American Council of Learned
Societies, 18
American Library Association, 14, 17,
148
American Memory, 50–50, 53, 163
Andrew W. Mellon Foundation, 54,
55, 64–69, 113–119, 161–162, 165,
168, 169, 196, 205
AOL, 44
ArtStor, 118, 161
Association of American Publishers,
122, 137, 138, 142, 150, 209
Association of College and Research
Libraries, 148
Association of Research Libraries, 15,
18, 21, 22–23, 148, 163–164
Atkins, Daniel, 54
Ausubel, Jesse, 120
Authors Guild, 122, 139, 142, 143,
209
Avram, Henriette, 8, 28, 32
Axford, H. William, 23
Ayers, Edward, 205

Balto, David, 102
Band, Jonathan, 142

Battin, Patricia, 56–58
Baumol, William, 65
BellSouth, 154
Bibliographic Services Development
Program, 33–34
Bibliotheca Alexandrina, 42
Big Ten Academic Alliance. *See*
Committee on Institutional
Cooperation
Billington, James H., 47–50, 61, 192
Board on Resources of American
Libraries, 18
Book Rights Registry, 144
Boston Public Library, 102
Bowen, William G., 64–69
Boyd, Julian, 19
Brin, Sergey, 72, 73, 74, 92, 119
British Library, 25, 134
Bunnell, Ben, 109
Bush, Vannevar, 56

California Digital Library, 121
California State Library, 16
Campbell v. Acuff-Rose Music, Inc.,
130
Campbell, Laura, 48–49, 61
Carnegie Foundation, 19
Carnegie Mellon University, 42
Carnegie, Andrew, 15, 103
Center for American Progress Action
Fund, 102
Center for Research Libraries, 20–21,
185
Chin, Denny, 145, 146
Chirac, Jacques, 111
Clancy, Dan, 5, 75–77, 85, 139
Clinton, Bill, 150

212 INDEX

- Cohen, Dan, 124
Coleman, Mary Sue, 150
Commission on Preservation and Access, 57, 59, 60
Committee on Institutional Cooperation, 88, 172–177
Conway, Paul, 110
Copyright Office, 91, 135, 157
Cornell University, 53, 54, 55
coronavirus, 206
Council on Library and Information Resources (CLIR), 55, 59
Council on Library Resources (CLR), 26, 33–34, 56, 59
Courant, Paul, 5, 50, 54, 79–84, 106, 109–110, 118, 148, 149, 152, 157, 167, 170, 175, 177, 180, 201–202, 208
Cunard, Jeff, 144
Curtis, Neal, 1
- Darnton, Robert, 122–124, 147, 148, 154, 156, 189, 191
Debevoise & Plimpton, 144
DeGennaro, Richard, 67
Denison University, 64–66
Department of Justice, 150
Dewey, Melvil, 14–15, 23, 27
Digital Library Federation, 56–64, 82, 163, 164, 167
Digital Preservation Network, 201
Digital Public Library of America (DPLA), 122–124, 154, 164, 189, 191, 201
Dingell, John, 20
disinformation. *See* misinformation
Dix, William, 22
Drummond, David, 133
Duguid, Paul, 101, 110
- EBSCO, 193
Editoria, 196
EDUCAUSE, 61
Ekman, Richard, 65
Electronic Frontier Foundation, 154
Elsevier, 52, 203
European Digital Library, 112
Europeana, 112, 164
- Farley, Laine, 168, 178
Farmington Plan, 17–20, 21
filter bubble. *See* misinformation
Ford Foundation, 56
Frankfurt Book Fair, 74
Fuchs, Ira, 67
Fulcrum, 196
Furlough, Mike, 93, 186
- Gale, 69, 166
Garrett, John, 58
Gasaway, Laura, 158
Gingrich, Newt, 48
Givler, Peter, 138
Gore, Al, 38
Gosling, William, 51, 53, 80
Greenstein, Daniel, 121
Grimmelmann, James, 152
Guthrie, Kevin, 113–119
- Haas, Warren J., 26, 33–34
Hachette Book Group, 209
HarperCollins, 209
Harvard University, 6, 7, 47, 54, 60, 67–68, 89, 92–93, 122–124
HathiTrust, 142, 156, 160–187, 201–202, 207
Hawkins, Brian, 61
Hayden, Carla, 156, 192
Hewlett Packard, 120
Houghton Mifflin, 74
House Judiciary Committee, 102
Hurley, Bernard, 63
- IEEE, 203
Indiana University, 175, 177, 180, 182, 186
Institute of Museum and Library Services (IMLS), 55, 165, 191, 196, 205
Internet Archive, 42, 43–47, 55, 85, 119–121, 126, 143, 169, 201, 209
ITHAKA, 113–119, 169
- Jeanneney, Jean-Noël, 112
Jefferson, Thomas, 162
Jenkins, Jo Ann, 61
John Wiley & Sons, 142, 209

- JSTOR, 54, 64–69, 114–115, 161, 162, 168, 180–181
- Kahle, Brewster, 43–47, 85, 102, 119–122, 125, 134, 209
- Keller, Michael, 78, 91, 92, 108
- Kelly, Kevin, 101–102, 131
- Kenney, Anne, 53
- Kilgour, Frederick, 8, 31
- Kluge, John E., 48
- Leadership Conference on Civil Rights, 103
- League of United Latin American Citizens, 103
- Leiter, Richard, 112
- Lemley, Sam, 1–2
- librarians, professional identities of, 35, 40; scholars as librarians, 15–16; librarians as managers 21–24; value of curatorial role of, 43, 55.
- libraries
- budget models for, 24
 - digitization of, 37–95; special collections, 69–70
 - diversity in collections, 112–113, 190
 - growth in the size of, 23–24
 - models for collaboration among, 26–27, 35–36, 60–63, 160–187, 200–202
 - saving space of, 65–68
- Library of Congress, 6, 8, 17–20, 26, 28–30, 32–33, 47–50, 53, 61–62, 87, 91, 102, 122, 126, 157, 162–164, 192
- Licklider, J.C.R., 56
- Lindberg, Donald, 100
- Lipman, David, 99
- Lougee, Wendy, 50–54, 59
- MacArthur Foundation, 124
- Machine Readable Cataloging (MARC), 28–30
- MacLeish, Archibald, 19
- Making of America, 53, 54
- Mandel, Carol, 59
- Marcum, Deanna, 61
- Mayer, Marissa, 5
- McCoy, Bill, 101
- McGraw-Hill, 142
- Medline Plus, 99
- Metcalfe, Keyes, 19
- Meyers, Michele, 65
- Microsoft, 46, 55, 73, 90–91, 121–122, 134, 146, 189
- Midwest Inter-Library Corporation (later the Center for Research Libraries), 21
- Million Book Digital Library, 40–43
- misinformation, 8, 10, 104, 189, 210
- Moore, Carole, 46, 121
- Munn, Robert, 24
- Nadella, Satya, 122
- National Center for Biotechnology Information, 99
- National Commission on Library and Information Science (NCLIS), 25
- National Endowment for the Humanities (NEH), 33, 55, 57, 124, 191, 196, 205
- National Federation of the Blind, 103
- National Library of Medicine, 98, 99, 129
- National Periodicals Center (NPC), 26–27
- National Science Foundation (NSF), 15, 21, 41
- National Union Catalog, 18–19
- New York Public Library, 54, 89, 93
- Northeastern University, 124
- OCLC (previously Ohio College Library Center), 8, 17, 31–33, 60, 91, 178, 180, 181, 194,
- Ohio State University, 17
- Open Content Alliance, 46, 118–122, 134
- Oxford University, 89, 93
- Page, Larry, 5, 50, 72, 73, 74, 77, 78, 79, 81, 87, 92
- Palfrey, John, 124, 191
- Partnership for Shared Book Collections, 201
- Pearson, 142
- Penguin, 74, 142

214 INDEX

- Penguin Random House, 209
Perseus Book Group, 138
PL480, 20, 21
Princeton University, 22, 47, 65, 67,
117, 122
Project Muse, 64
ProQuest, 69, 166, 193
Public Library Association, 109
PubmedCentral 99
Putnam, Lara, 196
- Quandt, Richard E., 65
- Random House, 134
Readex, 69, 166
Reddy, Raj, 40–41
Research Libraries Group, 34
Rider, Fremont, 23
Rockefeller Foundation, 19
Rowell, U. L., 16
Rudick, Richard, 158
- Samuelson, Pamela, 149
Sandler, Mark, 108, 153, 173–174, 175, 177
Sarnoff, Richard, 134, 139, 140, 145, 149
Schmidt, Eric, 117, 119
Scholar's Trust, 200
Scholastic, 74
Schroeder, Patricia, 137, 141
Secret Service, 154
Section 108 Study Group, 157–159
Simon and Schuster, 142
Sloan Digital Sky Survey, 206
Sloan Foundation, 120, 191, 205
Smith, Adam, 138
Social Science Research Council, 18
Somers, James, 6–7, 145
St. Clair, Gloriana, 40–41
Stanford, 5, 33, 62, 78, 79, 89, 91, 92, 123
Steinberger, David, 138
Steve Jackson Games, 154
Stevens, Ted, 49
- Tabb, Winston, 46
Telematics for Libraries, 112
TOME, 196
Tropy, 196
Trove, 164
Trustworthy Repositories Audit and
Certification, 185
- UK National Archives, 120
United States Students Association, 103
University of California, 16, 63, 101,
120, 121, 123, 172, 178, 182, 197
University of Michigan, 6, 50–54, 55,
58, 62, 67, 79–89, 92, 95, 106,
113–117, 123, 142–143, 149, 151,
153–154, 156, 157, 165, 166–182,
184, 197, 201–202
University of Toronto, 120, 121
University of Virginia, 1–2
University of Wisconsin, 166, 173
university presses, 183, 197
Unsworth, John, 2
- Waters, Donald, 46, 58, 62, 69, 108,
113–119, 161
Welsh, William, 8
WEST, 201
Wikipedia, 104
Wilkin, John, 5, 58, 80, 82, 87, 113–119,
153, 165, 167, 169–181, 186
*Williams and Wilkins Co. v. United
States*, 129
Williams, Gordon, 21
Winograd, Terry, 92
W. K. Kellogg Foundation, 48
World Digital Library, 163, 192
- Yahoo, 46, 90–91, 120, 134, 146, 189
Yale University, 31, 58
- Zoom, 207
Zotero, 196