

The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution Walter Isaacson

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The story of the digital revolution is a testament to the extraordinary efforts of a diverse group of individuals—hackers, geniuses, and geeks—who challenged conventions, pushed technological boundaries, and ultimately transformed the way humanity communicates, works, and lives. Walter Isaacson's compelling narrative in his book *The Innovators* offers an in-depth look at these pioneers, highlighting how collaboration, ingenuity, and relentless curiosity fueled an unprecedented era of innovation. This article explores the key figures, ideas, and breakthroughs that collectively shaped the digital revolution, emphasizing how a community of brilliant minds changed the world forever.

The Birth of Digital Innovation: Early Pioneers and Foundations

The Dawn of Computer Science and the First Geniuses

The roots of the digital revolution trace back to early computer scientists and mathematicians whose groundbreaking ideas laid the groundwork for modern computing. Figures such as Alan Turing, often regarded as the father of computer science, envisioned machines capable of logical operations, setting the stage for future innovations.

1. **Alan Turing:** Developed the concept of the Turing machine, a theoretical model of computation that remains fundamental today. Turing's work during World War II on code-breaking machines like the Bombe was pivotal in advancing computer technology.
2. **John von Neumann:** Introduced the von Neumann architecture, a design model for stored-program computers that is still used in most computers today.
3. **Grace Hopper:** A pioneering computer scientist who developed the first compiler, enabling programmers to write code in human-readable language and paving the way for modern programming languages.

The Role of Hackers and Geeks in Early Innovation

Long before the term "hacker" acquired a sometimes negative connotation, early hackers were passionate tinkerers and problem-solvers who pushed the limits of existing systems.

1. **MIT Tech Model Railroad Club:** An early example of hacker culture, where students experimented with electronics and computer programming, laying the groundwork for hacker ethics and community.
2. **The Homebrew Computer Club:** A gathering of hobbyists and engineers that fostered collaboration, sharing ideas, and sparking innovations like the Altair 8800 microcomputer.

The Rise of Personal Computing and Silicon Valley's Innovators

Transformative Technologies and Entrepreneurial Spirit

The 1970s and 1980s marked a period where individual geniuses and small startups revolutionized computing, making technology accessible to the masses.

1. **Steve Jobs and Steve Wozniak:** Co-founders of Apple Inc., they developed the Apple I and Apple II, bringing personal computers into homes and classrooms.
2. **Bill Gates and Paul Allen:** Founders of Microsoft, they created software that became the backbone of personal computing, including MS-DOS and Windows.
3. **Marc Andreessen:** Co-creator of Mosaic, the first widely-used web browser, which revolutionized internet access and usability.

The Hacker Ethic and the Open Source Movement

The culture of sharing and collaborative development was instrumental in accelerating technological progress.

1. **Open Source Software:** Projects like Linux, initiated by Linus Torvalds, exemplify how community-driven development can produce robust, free software.
2. **Hacker Ethic:** Emphasized the free flow of information, decentralization, and the belief that barriers to knowledge should be broken down—principles that continue to underpin digital innovation.

The Internet Boom: Connecting the World

From ARPANET to the World Wide Web

The creation of ARPANET in the late 1960s by researchers funded by the U.S. Department of Defense set the foundation for the internet.

1. **Tim Berners-Lee:** Invented the World Wide Web in 1989, introducing HTTP, HTML, and web browsers, transforming the internet into a user-friendly platform.
2. **Vint Cerf and Bob Kahn:** Developed TCP/IP protocols, enabling different networks to connect and communicate seamlessly.

The Innovators Behind the Digital Ecosystem

A new generation of entrepreneurs and engineers emerged to harness the internet's potential.

1. **Jeff Bezos:** Founded Amazon, revolutionizing e-commerce and cloud computing.
2. **Larry Page and Sergey Brin:** Created Google, transforming information retrieval and online advertising.
3. **Mark Zuckerberg:** Launched Facebook, redefining social connectivity and digital identity.

The Smartphone Revolution and the Rise of Tech Giants

From Computers to Mobile Devices

The development of powerful, portable smartphones democratized access to digital tools, apps, and services.

1. **Apple's iPhone:** Introduced in 2007, it integrated computing, communication, and entertainment into a single device, setting new standards.
2. **Android OS:** Open-source platform that expanded smartphone accessibility globally.

The Innovator Geniuses Behind the Mobile Era

Key figures drove the smartphone revolution and the expansion of the digital ecosystem.

1. **Steve Jobs:** His vision for user-friendly interfaces and sleek hardware made the iPhone a cultural phenomenon.
2. **Andy Rubin:** Led the development of Android, fostering a diverse ecosystem of devices and developers.

Artificial Intelligence and the Future of Innovation

The Geniuses Leading AI Advancements

AI has become the next frontier, with researchers and entrepreneurs pushing the boundaries of machine learning, natural language processing, and robotics.

1. **Geoffrey Hinton:** Known as the "Godfather of Deep Learning," his work revolutionized neural networks.
2. **Yoshua Bengio and Yann LeCun:** Pioneered research in deep learning, enabling advances in speech recognition, image analysis, and autonomous systems.
3. **Elon Musk:** Co-founded OpenAI and Tesla, integrating AI into transportation, energy, and automation.

The Ethical and Societal Implications

As innovators push AI forward, questions about ethics, privacy, and societal impact become increasingly critical.

1. Ensuring AI transparency and fairness
2. Addressing job displacement and economic shifts
3. Developing regulations and responsible AI frameworks

Conclusion: The Legacy of the Innovators

The digital revolution, driven by a vibrant community of hackers, geeks, and geniuses, exemplifies how curiosity, collaboration, and bold experimentation can reshape the world. Walter Isaacson's *The Innovators* captures these stories, emphasizing that innovation is rarely the work of solitary geniuses but rather the result of collective effort and shared vision. From early computer pioneers to modern AI developers, each contributor has played a vital role in building an interconnected, digital world. Their legacy continues to inspire new generations of innovators who are poised to push the boundaries of what is possible, ensuring that the digital revolution remains an ongoing story of human ingenuity and collaboration. Keywords: digital revolution, hackers, geeks, innovators, Walter Isaacson, computing history, internet development, tech pioneers, open source, AI, innovation, Silicon Valley

Innovators: How a Group of Hackers, Geniuses, and Geeks Created the Digital Revolution — Walter Isaacson The story of the digital revolution is a saga of human ingenuity, relentless curiosity, and collaborative spirit. At its core lie the remarkable individuals—hackers, scientists, entrepreneurs, and visionaries—whose combined efforts transformed society from a predominantly analog world into a hyper-connected digital age. Walter Isaacson,

renowned biographer and chronicler of technological pioneers, masterfully captures this transformative epoch, illustrating how these innovators' collective genius catalyzed unprecedented change. In this article, we delve into the intricate tapestry of the digital revolution, exploring the key figures, pivotal inventions, and cultural shifts that marked this epoch. Drawing inspiration from Isaacson's narrative style, we examine how a community of brilliant minds—often outsiders and rebels—challenged conventions to redefine what technology could do for humanity.

The Genesis of the Digital Revolution: From Hobbyists to Pioneers

The Early Days: The Birth of the Hacker Ethic

The roots of the digital revolution trace back to the 1960s and 1970s, a time when computer technology was still in its infancy. During this period, a unique culture emerged among a subset of enthusiasts—students, programmers, and engineers—who believed in the free exchange of knowledge and the power of technology to democratize information. - The Hacker Ethic: Coined by Steven Levy in his seminal book *Hackers: Heroes of the Computer Revolution*, this ethos championed curiosity, hands-on tinkering, and the belief that information should be freely accessible. Hackers, in this context, were seen as innovators rather than malicious actors. - Key Figures: - Kevin Mitnick: Once considered the most-wanted hacker in the U.S., Mitnick's early exploits showcased the talent and audacity of these early hackers. - Richard Stallman: Founder of the Free Software Foundation and creator of the GNU Project, Stallman emphasized software freedom, laying the groundwork for open-source development. The hacker culture laid the foundation for collaborative innovation, emphasizing experimentation and shared knowledge—principles that would underpin later technological breakthroughs.

The Development of Personal Computing: Making Technology Accessible

The transition from centralized mainframe computers to personal devices was driven by a handful of visionaries who believed that computing should be democratized. - Key Innovators: - Steve Wozniak and Steve Jobs: Co-founders of Apple Inc., they pioneered the personal computer with the Apple I and II, making computing accessible to millions. - Bill Gates and Paul Allen: With Microsoft, they aimed to bring software to a broader audience, emphasizing compatibility and affordability. - Major Milestones: - The launch of the Altair 8800 in 1975, often considered the first microcomputer. - The development of the Apple Macintosh in 1984, which introduced a graphical user interface (GUI) to the masses. These advances made computing tools more user-friendly and accessible, setting the stage for widespread adoption and innovation.

The Innovator Geniuses Behind the Digital Leap

The Pioneers Who Shaped the Digital Landscape

Several key individuals stand out as architects of the digital revolution. Their unique visions and relentless pursuit of innovation transformed theoretical concepts into everyday reality. 1. Tim Berners-Lee: Architect of the World Wide Web - Developed the World Wide Web in 1989 at CERN as a solution to share information across different systems. - Invented key technologies such as HTML, HTTP, and URLs, creating a seamless information-sharing platform. - Advocates for an open and accessible internet, emphasizing net neutrality and privacy. 2. Alan Turing: The Father of Computer Science - Laid the theoretical groundwork with his concept of a universal machine in the 1930s. - His work during WWII on code-breaking (notably the Enigma) demonstrated the practical power of

computing. 3. Grace Hopper: The Queen of Software - Pioneered the development of compilers, making programming more accessible. - Influenced the development of COBOL, a language still in use today. 4. Steve Jobs and Steve Wozniak: The Silicon Valley Innovators - Co-created Apple, transforming personal computing and later, mobile devices. - Pushed the boundaries of design, usability, and consumer electronics. 5. Mark Zuckerberg: The Social Media Trailblazer - Created Facebook in 2004, revolutionizing social interaction and information dissemination. - Sparked debates on privacy, data security, and digital community.

The Geeks and Hackers Who Disrupted Industries

Beyond these household names, countless lesser-known figures contributed to the revolution: - Linus Torvalds: Developed Linux, an open-source operating system that powers servers, smartphones, and supercomputers. - Ada Lovelace: Recognized as the first computer programmer, her work prefigured modern software development. - John Carmack: Pioneered 3D graphics in gaming, influencing virtual reality and simulation.

The Critical Technologies and Inventions Fueling the Revolution

Semiconductors and Microprocessors

The invention of the semiconductor and the subsequent development of microprocessors (notably Intel's 4004 and 8080 chips) revolutionized computing power, enabling smaller, faster, and more affordable devices. - Enabled the proliferation of personal computers, smartphones, and embedded systems. - Sparked a global industry that continues to innovate at an exponential pace.

Networking and the Internet

- The development of ARPANET in the late 1960s laid the groundwork for the internet. - Key innovations included packet switching and TCP/IP protocols. - The commercialization of the internet in the 1990s transformed communication, commerce, and culture.

Software and Open Source Movement

- The rise of software development environments and open-source projects fostered collaboration. - Projects like Linux, Firefox, and Apache empowered users and developers, accelerating innovation.

Mobile Technology and Smartphones

- The advent of smartphones, epitomized by the iPhone (2007), combined computing, communication, and multimedia into a single device. - Enabled new business models (apps, mobile payments) and social behaviors.

Societal Shifts and Cultural Changes Driven by the Digital Revolution

Transforming Communication and Information Sharing

- Social media platforms have created instant connectivity, enabling grassroots movements, activism, and global

communities. - Information is now democratized; anyone with internet access can publish and access knowledge.

Disrupting Traditional Industries

- Music: Digital downloads and streaming services (Spotify, Apple Music) transformed music consumption. - Media: Online news, blogs, and social media challenged traditional journalism. - Retail: E-commerce giants like Amazon revolutionized shopping.

Impact on Work and Economy

- Rise of the gig economy, remote work, and digital entrepreneurship. - Automation and AI threaten traditional jobs but also create new opportunities.

Privacy and Ethical Challenges

- Data privacy concerns, surveillance, and cybersecurity threats have become central issues. - The debate over net neutrality, intellectual property, and digital rights continues to shape policy.

The Human Face of the Digital Revolution: Stories of Geniuses and Rebels

Walter Isaacson's narratives illuminate not only the technological milestones but also the human stories behind them—stories of perseverance, rebellion, collaboration, and vision. - Steve Jobs: A visionary with a perfectionist streak, driven by a desire to create beautiful, intuitive technology. - Linus Torvalds: A passionate hacker who believed in open collaboration, challenging proprietary software models. - Ada Lovelace: A trailblazing mathematician whose theoretical insights prefigured modern programming. These stories underscore that innovation often arises from the fringes—rebellious outsiders and geeks who refuse to accept the status quo.

The Legacy of the Digital Revolution and Future Horizons

The innovators chronicled by Walter Isaacson have left an indelible mark on society, shaping our lives in profound ways. Their creations have fostered unprecedented connectivity, knowledge dissemination, and economic transformation. Looking ahead, the digital revolution is far from over. Emerging fields such as artificial intelligence, quantum computing, blockchain, and biotech integration promise to redefine what is possible. - AI and Machine Learning: Automating complex tasks and enabling personalized experiences. - Quantum Computing: Unlocking computational capabilities beyond classical limits. - Blockchain: Transforming trust, security, and decentralization. The ongoing evolution will require new generations of hackers, geeks, and visionaries—those willing to challenge conventions and harness technology for societal good.

Conclusion

The digital revolution, as narrated by Walter Isaacson, is a testament to the power of human ingenuity and collaborative innovation. From the early hackers who believed in free information to the tech giants who built the infrastructure of our digital lives, each contributed a vital piece to this complex puzzle. Their stories remind us that progress often emerges from the fringes—rebellious minds and passionate geeks who dare to dream and defy. As we venture into

Access to The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution Walter Isaacson

has quietly reshaped how people relate to written knowledge. Reading is no longer confined to fixed schedules or specific places. Instead, it adapts to personal routines, individual curiosity, and changing priorities.

What stands out most is control. Readers decide when to start, where to pause, and which parts deserve more attention. This sense of control often leads to better focus and stronger retention, especially when dealing with complex or layered material.

Unlike traditional reading habits that demand long, uninterrupted sessions, downloadable books support flexible engagement. A chapter can be explored briefly, revisited later, and reflected upon over time. Understanding develops gradually, shaped by repetition rather than pressure.

The reliability of PDF format reinforces this experience. Layout, diagrams, and references remain intact across devices. Readers encounter the same structure each time, allowing ideas to feel familiar and easier to navigate. This stability is particularly valuable for academic, instructional, and reference-based content.

Interaction further deepens involvement. Highlighting key passages or writing marginal notes turns reading into an active process. Over time, the book reflects the reader's evolving understanding, capturing insights that may not surface during a single reading.

Search functionality adds practical value. Readers do not need to rely on memory alone. Important sections can be located instantly, making the book useful both for study and quick consultation. This efficiency encourages repeated use rather than one-time consumption.

Legitimate platforms play a vital role in maintaining quality and trust. Libraries, open-access repositories, and academic institutions provide carefully curated collections. By relying on these sources, readers ensure accuracy while supporting responsible distribution.

Affordability expands opportunity. When financial barriers are reduced, exploration increases. Readers are more willing to engage with unfamiliar subjects, discover new perspectives, and broaden their intellectual range without hesitation.

For students, this access supports consistent learning habits. Materials remain available beyond classroom hours, allowing concepts to be reinforced at a comfortable pace. Notes and highlights stay organized, helping structure revision and review.

Professionals use downloadable books differently. They approach them as tools rather than assignments. Sections are consulted as needed, insights applied directly, and references revisited when challenges arise. Learning integrates naturally into work routines.

Personal development also benefits. Reading becomes less about completion and more about reflection. Ideas are allowed to linger, connect, and mature. Over time, this leads to a deeper relationship with the subject matter.

Accessibility features quietly increase inclusivity. Adjustable display options and reading assistance tools ensure that more people can engage comfortably. Knowledge becomes easier to approach without drawing attention to limitations.

Organization supports continuity. A personal library grows alongside interests, preserving progress and context. Returning to a familiar book feels seamless, even after long breaks.

There is also a shift in mindset. When access is consistent, learning feels less urgent and more intentional. Readers engage because they want to, not because they must.

Global availability further enriches the experience. People from different backgrounds interact with the same material, bringing diverse interpretations and insights. This shared access strengthens the collective value of knowledge.

Over time, books stop feeling temporary. They remain available as references, reminders, and sources of renewed understanding. The relationship extends beyond a single reading session.

Downloading *The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution* Walter Isaacson supports this evolving relationship. It respects how people learn, adapt, and revisit ideas. The book remains present without demanding attention, ready whenever curiosity returns.

What develops is not just familiarity with content, but confidence in learning itself. The reader knows that understanding can grow gradually, shaped by patience and repeated engagement.

And in that steady rhythm—open, pause, return—knowledge finds its place naturally.

Questions & Answers About the innovators how a group of hackers geniuses and geeks created digital revolution walter isaacson

No	Question	Answer
1	What is the main focus of Walter Isaacson's book 'The Innovators'?	The book explores how a diverse group of hackers, geniuses, and geeks collaborated over decades to create the digital revolution, highlighting their innovations and collective efforts.
2	Who are some key figures highlighted in 'The Innovators'?	The book features pioneers like Alan Turing, Ada Lovelace, Bill Gates, Steve Jobs, Linus Torvalds, and many others who contributed to the development of computers, software, and digital technology.
3	How does 'The Innovators' depict the collaborative nature of technological advancements?	Isaacson emphasizes that the digital revolution was driven by teamwork, open collaboration, and the sharing of ideas among diverse individuals over generations, rather than isolated genius alone.
4	What role did early computer scientists and programmers play in the digital revolution according to the book?	They laid the foundational concepts, developed programming languages, and created the first computers, enabling subsequent innovators to build upon their work and accelerate technological progress.
5	How does 'The Innovators' portray the impact of the internet and personal computing?	The book illustrates how the development of personal computers and the internet transformed society, democratized information, and created new industries, all through the collaborative efforts of many innovators.
6	What lessons about innovation and collaboration can readers learn from 'The Innovators'?	Readers learn that innovation often results from diverse teams working together, sharing ideas openly, and building upon each other's work, rather than relying solely on individual brilliance.

7	How does Walter Isaacson connect the stories of individual innovators to the broader digital revolution?	He weaves personal biographies with technological milestones, showing how individual visions, persistence, and teamwork collectively shaped the digital age.
8	Why is 'The Innovators' considered a relevant book for understanding current technological trends?	Because it provides a comprehensive history of digital innovation, emphasizing collaboration and creativity, which are still central to today's fast-paced technological advancements.

digital revolution, hackers, geniuses, geeks, Walter Isaacson, technological innovation, Silicon Valley, computer programming, entrepreneurship, tech pioneers

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Keeping reading applications and operating systems up to date improves compatibility. Updates often include bug fixes, performance improvements, and support for newer file standards. Regular maintenance ensures that *The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution* Walter Isaacson files open correctly and that advanced features such as annotations or interactive elements function as intended.

Optimizing compatibility across devices

For users who switch between multiple devices, synchronizing reading apps and cloud accounts enhances compatibility. Progress, bookmarks, and annotations can be shared seamlessly, creating a consistent experience.

Choosing widely supported formats and reliable reading software reduces technical friction and improves long-term usability.

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Avoiding pirated files is one of the most effective security measures. Unauthorized copies often lack quality control and may contain hidden threats. Legal and reputable sources provide verified files that are safe to download and use. Respecting copyright also supports creators and publishers, contributing to a sustainable content ecosystem.

Before downloading *The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution* Walter Isaacson, users should verify the credibility of the source. Official publishers, academic libraries, and well-known platforms typically provide secure downloads. Checking website reputation, reading user reviews, and confirming licensing information help reduce risks.

Using antivirus or security software adds an additional layer of protection. Scanning downloaded files ensures that potential threats are detected early. Many modern security tools operate in real time, monitoring downloads and alerting users to suspicious activity. Keeping antivirus software updated enhances effectiveness against emerging threats.

Safe handling of digital documents

In addition to secure downloading, safe handling practices further reduce risk. Avoid enabling macros or scripts in PDF files unless necessary and trusted. Be cautious with files that request excessive permissions or prompt unexpected actions. These precautions help maintain device integrity and user privacy.

File Management

Effective file management ensures that your collection of *The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution* Walter Isaacson remains organized, accessible, and easy to maintain. As digital libraries grow, poor organization can lead to confusion, duplicate files, and wasted time searching for documents.

Clear and consistent file naming is a fundamental aspect of file management. Including key details such as title, author, edition, or date in file names helps identify documents quickly. Consistency across all *The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution* Walter Isaacson files prevents ambiguity and simplifies retrieval.

Using folders organized by topic, volume, subject, or date further improves clarity. For example, academic users may categorize files by course or discipline, while personal users may organize by interest or purpose. Logical folder structures make navigation intuitive and scalable as collections expand.

Tagging and labeling provide additional organizational flexibility. Many operating systems and cloud platforms support tags that allow files to be grouped across multiple categories. A single *The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution* Walter Isaacson document can be tagged as reference, study material, or important, enabling faster searches without duplicating files.

Version control is particularly important when managing multiple editions or updates. Maintaining clear version

identifiers prevents accidental use of outdated content. Archiving older versions separately ensures historical reference while keeping current materials easily accessible.

Maintaining an efficient digital library

Regularly reviewing and cleaning your library helps maintain efficiency. Removing obsolete files, merging duplicates, and updating folder structures keep your The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution Walter Isaacson collection streamlined. Periodic maintenance ensures that file management systems remain effective over time.

Archiving

Archiving The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution Walter Isaacson files ensures long-term access and protects valuable information from loss. Digital documents can be vulnerable to accidental deletion, hardware failure, or software issues. Implementing reliable archiving strategies safeguards your collection for future use.

Cloud storage is a popular archiving solution due to its accessibility and automatic backup features. Storing The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution Walter Isaacson files in reputable cloud services allows access from multiple devices while reducing the risk of data loss. Many platforms offer version history, enabling recovery of previous file states if needed.

External drives provide an additional layer of security for archiving. Storing backup copies on external hard drives or USB devices protects against cloud service disruptions or account issues. Keeping these drives in secure locations further enhances data protection.

A comprehensive archiving strategy often combines cloud and physical backups. Redundant storage ensures that The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution Walter Isaacson remains accessible even if one storage method fails. Periodic verification of backup integrity confirms that archived files remain readable and complete.

Best practices for long-term archiving

- Use widely supported file formats such as PDF for longevity.
- Label archived files clearly with dates and version information.
- Maintain multiple backup locations.
- Review archives periodically to ensure accessibility.
- Update storage media as technology evolves.

Future-proofing your The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution Walter Isaacson collection

Technology evolves over time, and file formats or storage methods may change. Choosing standard formats, maintaining backups, and staying informed about digital preservation practices help future-proof your The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution Walter Isaacson collection. These steps ensure that documents remain usable and accessible for years to come.

Final thoughts on compatibility, security, and archiving

Managing The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution Walter Isaacson effectively requires attention to compatibility, security, file organization, and archiving. By ensuring device support, downloading from trusted sources, organizing files systematically, and maintaining reliable backups, users can protect their digital libraries and maximize long-term value. These best practices create a safe, efficient, and sustainable environment for accessing and preserving The Innovators How A Group Of Hackers Geniuses And Geeks Created Digital Revolution Walter Isaacson in the digital age.