



# When Computers Were Human

**Adam Iaizzi**



## **When Computers Were Human:**

**When Computers Were Human** David Grier, 2013 Before Palm Pilots and iPods PCs and laptops the term computer referred to the people who did scientific calculations by hand These workers were neither calculating geniuses nor idiot savants but knowledgeable people who in other circumstances might have become scientists in their own right When Computers Were Human represents the first in depth account of this little known 200 year epoch in the history of science and technology Beginning with the story of his own grandmother who was trained as a human computer David Alan Grier provides a poignant introduction to the wider world of women and men who did the hard computational labor of science His grandmother's casual remark I wish I'd used my calculus hinted at a career deferred and an education forgotten a secret life unappreciated like many highly educated women of her generation she studied to become a human computer because nothing else would offer her a place in the scientific world The book begins with the return of Halley's comet in 1758 and the effort of three French astronomers to compute its orbit It ends four cycles later with a UNIVAC electronic computer projecting the 1986 orbit In between Grier tells us about the surveyors of the French Revolution describes the calculating machines of Charles Babbage and guides the reader through the Great Depression to marvel at the giant computing room of the Works Progress Administration When Computers Were Human is the sad but lyrical story of workers who gladly did the hard labor of research calculation in the hope that they might be part of the scientific community In the end they were rewarded by a new electronic machine that took the place and the name of those who were once the computers

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pedagogical introduction to students beginning in this field

*The Software Arts* Warren Sack, 2019-04-09 An alternative history of software that places the liberal arts at the very center of software's evolution In *The Software Arts* Warren Sack offers an alternative history of computing that places the arts at the very center of software's evolution Tracing the origins of software to eighteenth century French encyclopedists step by step descriptions of how things were made in the workshops of artists and artisans Sack shows that programming languages are the offspring of an effort to describe the mechanical arts in the language of the liberal arts Sack offers a reading of the texts of computing code algorithms and technical papers that emphasizes continuity between prose and programs He translates concepts and categories from the liberal and mechanical arts including logic rhetoric grammar learning algorithm language and simulation into terms of computer science and then considers their further translation into popular culture where they circulate as forms of digital life He considers among other topics the arithmetization of knowledge that presaged digitization today's multitude of logics the history of demonstration from deduction to newer forms of persuasion and the post Chomsky absence of meaning in grammar With *The Software Arts* Sack invites artists and humanists to see how their ideas are at the root of software and invites computer scientists to envision themselves as artists and humanists

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**Progress in Physics** ,2006 **Too Soon To Tell**  
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