Women in Technical Jobs

- 10% Twitter
- 15% Facebook
- 17% Google
- 20% Apple
- 21% Pinterest
- 23% National Representation

Women in Computing Occupations by Percentage

- 8.5% Engineer
- 24.9% Computer

Women Earning BA in Computer Science

- 10% drop

Demand for Technical Workers

- 1.4 Million Computer Jobs
- 400K Computer Science Students

Women's Representation in Computer Science Degrees Awarded in the US

- 27.6% 2001
- 18.2% 2012

Source: Anita Borg Institute from National Science Foundation and public data. Last accessed June 2015.

www.CODEdocumentary.com
## A History of Women in Code

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1843</td>
<td>Ada Lovelace develops what is now considered to be the first computer program.</td>
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<td>1946</td>
<td>Grace Hopper invents the first compiler for a high-level programming language and popularizes the idea of machine-independent languages.</td>
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<td>1952</td>
<td>The ENIAC Programmers, a group of six women, became the first people to program a modern computer—the first general purpose computer, the ENIAC, for which they programmed ballistic trajectories for the military.</td>
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<tr>
<td>1972</td>
<td>Sandra Kurtzig founded the technology company ASK Group with $2,000 in savings, growing it to become a dominant leader in business and manufacturing software. In 1981, ASK Group had its IPO (initial public offering), and Kurtzig became the first woman to take a Silicon Valley technology company public.</td>
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<tr>
<td>1973</td>
<td>Carole Shaw became the first female video game designer with the creation of her 3D Tic-Tac-Toe for Atari.</td>
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<tr>
<td>1978</td>
<td>Dawn Lepore was hired as manager of the Charles Schwab's information center. Despite lacking a master's degree in business or computer science, she was promoted in 1993 to become Schwab's chief information officer. In 1995, she helped pioneer the firm's web-based stock trading. Under her leadership, Schwab became number one in online trading.</td>
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<tr>
<td>1983</td>
<td>Sandy Lerner co-founded Cisco Systems, which became a Fortune 100 company that has enabled the extensive buildout of the Internet.</td>
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<tr>
<td>1984</td>
<td>Fran Allen became the first female IBM Fellow. At IBM, she has been a pioneer in the field of compiler optimization and parallelization. In 2006 she became the first woman to win the Turing Award.</td>
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<tr>
<td>1989</td>
<td>Helen Greiner co-founded iRobot, where she has been a pioneer in the area of robotics, launching products ranging from Roomba for consumers to PackBots for the US Armed Forces. She took iRobot public in 2005. In 2014, she was appointed Presidential Ambassador for Global Leadership by President Barack Obama.</td>
</tr>
<tr>
<td>1990</td>
<td>Diane Greene co-founded VMware, the leading provider of enterprise cloud and virtualization software. She now serves on the boards of Google and Intuit.</td>
</tr>
<tr>
<td>1992</td>
<td>Ginni Rometty became Chairperson, CEO and President of IBM, a Fortune 50 company. She has been a Fortune magazine “50 Most Powerful Women in Business” for ten consecutive years.</td>
</tr>
<tr>
<td>2012</td>
<td>Megan Smith became the first female Chief Technology Officer of the United States, appointed by President Barack Obama.</td>
</tr>
</tbody>
</table>

**Code Documentary**

www.CODEdocumentary.com

GeekWire: “This is How Bad the Gender Gap is at Tech Companies”

The Maria Shriver Project: “Why The Tech Sector Struggles To Close The Gender Gap”

PBS News Hour: Computer Science’s Diversity Gap Starts Early


Janet Abbate, Recoding Gender: Women’s Changing Participation in Computing

Python Tutorials: Amazing Grace


Verizon: Inspire Her Mind Campaign

Clayman Institute for Gender Research at Stanford University: “Women in Technology”

Code.Org: “What’s Wrong with this Picture?”

NPR: Planet Money, Episode 576: “When Women Stopped Coding”

The Paley Center for Media: Cracking the Code: Media Portrayals of Women in Science, Technology, Engineering, and Math

Made With CODE

Medium.com: Tracy Chou, “Where are the Numbers?,” Women in Software Database

AAUW: Solving the Equation: The Variables for Women’s Success in Engineering and Computing

The White House: The Untold Story of Women in Science and Technology

www.CODEdocumentary.com
The organizations below represent a sampling of groups that advocate for the closing of the gender gap in computer science. Visit their sites, download their reports, scan their news alerts and use their incredible, collective compilation of resources to expand your study of women in code and augment your post-film conversation.

- Anita Borg Institute
- Apps for Good
- Black Girls Code
- Code.org
- CODE2040
- Code for Progress
- Code Now
- Digital Undivided
- Girl Develop It
- Girl Geek Academy
- Girls Who Code
- National Center for Women & Information Technology
- National Girls Collaborative Project
- Tech Bridge Girls
- Tools for Change
- Women Who Code

She’s Coding is an open-source website project launched in cooperation with the documentary film CODE: Debugging the Gender Gap. She’s Coding serves as a destination for anyone who wants to learn more about the gender gap problem in computer science and to become part of the solution. Whether you’re a woman currently working in tech; a girl interested in learning to code; a male ally for women in computer science; or a company trying to find ways to increase diversity, She’s Coding is an invaluable resource.