

COMPUTER HISTORY "FIRSTS"

<table>
<thead>
<tr>
<th>Name</th>
<th>Year</th>
<th>Description</th>
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<tbody>
<tr>
<td>ABC (Antanasoff-Berry Computer)</td>
<td>30's</td>
<td>first electronic digital computer</td>
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<tr>
<td>ENIAC</td>
<td>40's</td>
<td>first large-scale</td>
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<tr>
<td>UNIVAC</td>
<td>50's</td>
<td>(one of the) first commercial</td>
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<tr>
<td>IBM 650</td>
<td>50's</td>
<td>first mass-produced</td>
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<tr>
<td>DEC (Digital Equip. Corp.) PDP-8</td>
<td>60's</td>
<td>first (western) minicomputer</td>
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<tr>
<td>ARPANET</td>
<td>1969</td>
<td>Beginning of the Internet. Also: Moon landing and Woodstock.</td>
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<tr>
<td>Altair</td>
<td>70's</td>
<td>(one of the) first microcomputers</td>
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<td>First Apple computer</td>
<td>1976</td>
<td></td>
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<tr>
<td>First IBM PC</td>
<td>1981</td>
<td>operating system choices: DOS or CP/M</td>
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<tr>
<td>First Macintosh</td>
<td>1984</td>
<td>popular introduction to the GUI and mouse</td>
</tr>
<tr>
<td>First version of Windows</td>
<td>1985</td>
<td>now IBM PC's could also enjoy the GUI and mouse</td>
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<tr>
<td>Netscape</td>
<td>1994</td>
<td>First graphical web browser, popularized the WWW / Internet</td>
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EVOLUTION OF WINDOWS

- Windows 1.0: 1985
- Windows 3.0: 1990 (first popular version)
- Windows 95: 1995 (big improvement of the "look and feel")
- Windows XP: 2001 (able to "hot swap" from the USB ports)
- Windows Vista: 2007
- Windows 7: 2009
- Windows 8: 2012
- Windows 10: 2014

GENERATIONS

1. Vacuum Tubes: bulky, but it's what they had at the time.
2. Transistors: probably the greatest invention of the 20th century, miniaturizing electronics of all types.
3. Integrated Chips (IC's): taking miniaturization a step further.
4. Large-Scale Integration (LSI): combining integrated chips into super-chips, such as today's CPU's.

EARLY LANGUAGES

- FORTRAN: 50's Scientific (FORmula TRANslation)
- COBOL: 60's Business (COmmon Business-Oriented Language)
- BASIC: 60's All-Purpose (Beginner's All-purpose Symbolic Instruction Code)

CATEGORIES

- Supercomputer
- Mainframe: for example, the ENIAC, the IBM 650.
- Mini
- Micro: includes any personal computer, cell phone, etc; also many (most) servers.

OTHER HIGHLIGHTS

- VisiCalc: One of the earliest useful programs (a spreadsheet) for business use of micro's
- Dr. Gracie Hopper: Early female computer pioneer. Coined the term "debugging"
- Dorothy Vaughan: Early african-american female expert of FORTRAN programming (with NASA)

LEVELS (HIGH TO LOW)

- You, the "user"
- Application Software ("Apps")
- System Software (including the Operating System, such as Windows, the Mac OS, or Linux)
- Hardware (the nuts and bolts)