A quick history of computers

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Vacuum tubes

- ENIAC, 1946
- 18,000 vacuum tubes

[Link to image](http://exploreaphistory.com/displayimage.php?imgid=1-2-920)
Bipolar junction transistor

- Bardeen, Brattain and Shockley, 1947
- Nobel Prize in Physics, 1956
Miniaturization

- MOSFETs were invented in 1959 (Kahng and Atalla, Bell Labs)
- Modern silicon chips have billions of components in a 1 cm² area.
Moore’s law

“The complexity for minimum component costs has increased at a rate of roughly a factor of two per year. Certainly over the short term this rate can be expected to continue, if not to increase.”

— Gordon Moore, 1965
Transistors, transistors, transistors

- The processor in your computer is basically billions of transistors.