

# Ada Lovelace

Presented by Dr. Heather Guarnera



# Background

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**Born:** December 10<sup>th</sup>, 1815

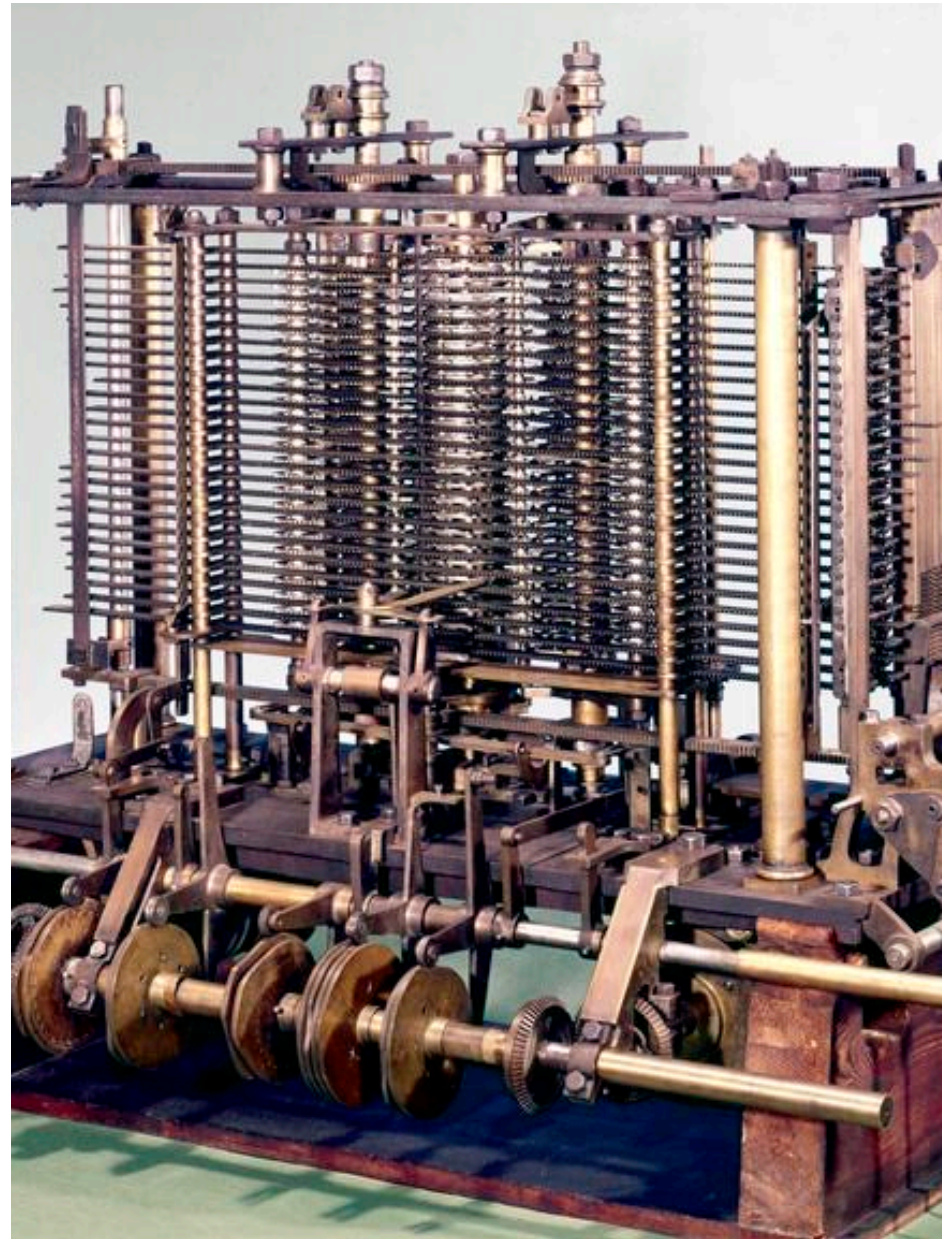
**Died:** 1852

- Only child of Lord Byron (famous poet) and Lady Byron
  - Parents separated shortly after she was born
  - Lady Byron (“Princess of Parallelograms”) spitefully promoted Ada’s interest in mathematics and logic
- Married William King, Earl of Lovelace
- Friends with: **Charles Babbage**, Michael Faraday, Charles Dickens, ...

# Contribution: First Programmer

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- Worked with Charles Babbage on his Analytic Engine (first computer)
- 1843: translated an article and added extensive notes of her own
- First **stepwise sequence of operations** for solving mathematical problems
- She thought the Engine “might act upon other things besides number... the Engine might compose elaborate and scientific pieces of music of any degree of complexity or extent.”



# References

- “Ada Lovelace”. URL:  
<https://www.computerhistory.org/babbage/adalovelace/>
- “Ada Lovelace, the First Tech Visionary”. URL:  
<https://www.newyorker.com/tech/annals-of-technology/ada-lovelace-the-first-tech-visionary>