### Ada Lovelace

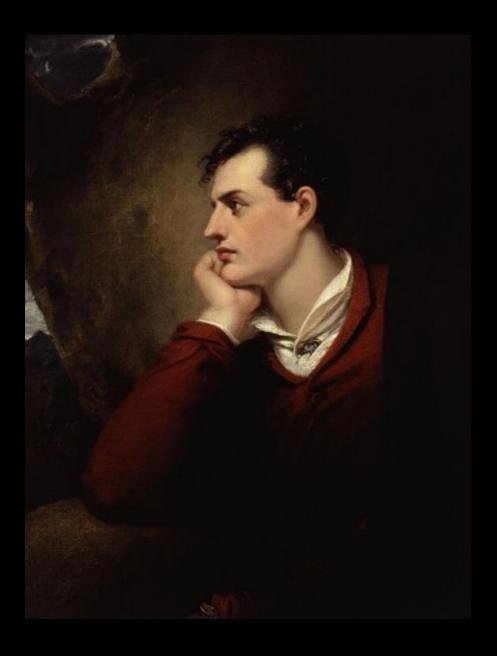
Mathematician, Computer Programmer and Writer

### Early Life

Augusta Ada King-Noel, Countess of Lovelace 1818 –1852

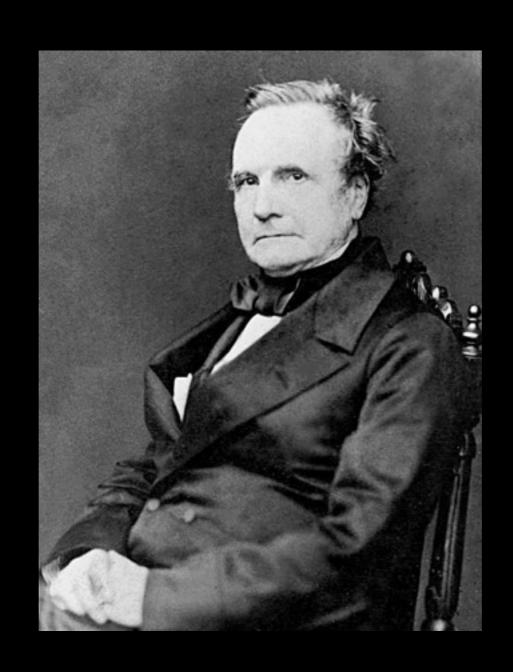


# Family

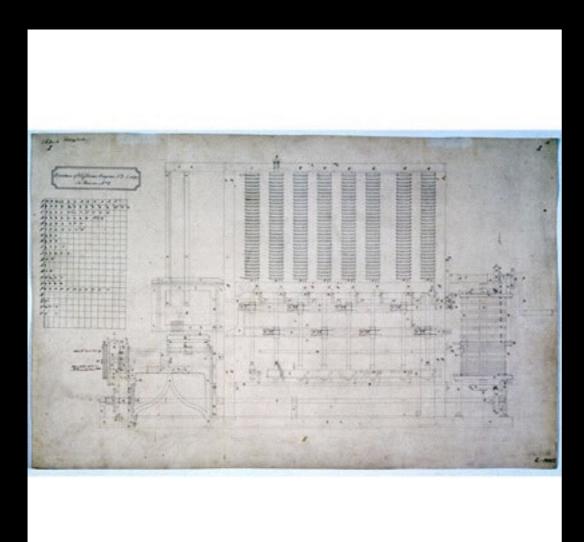


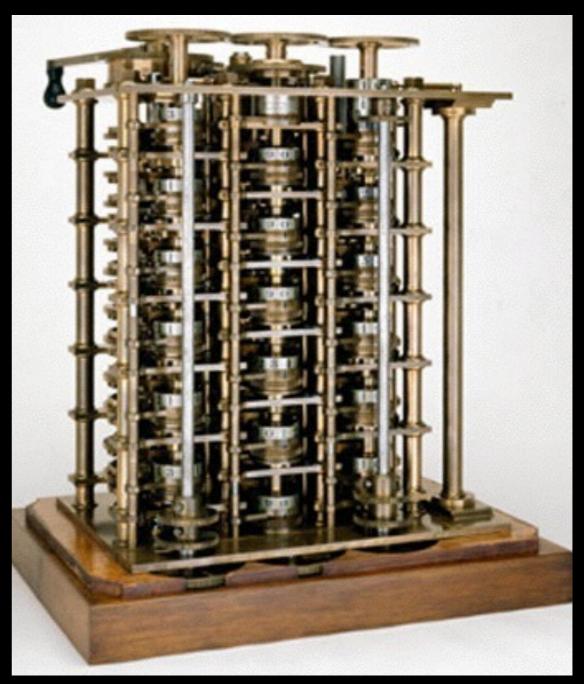


# Charles Babbage

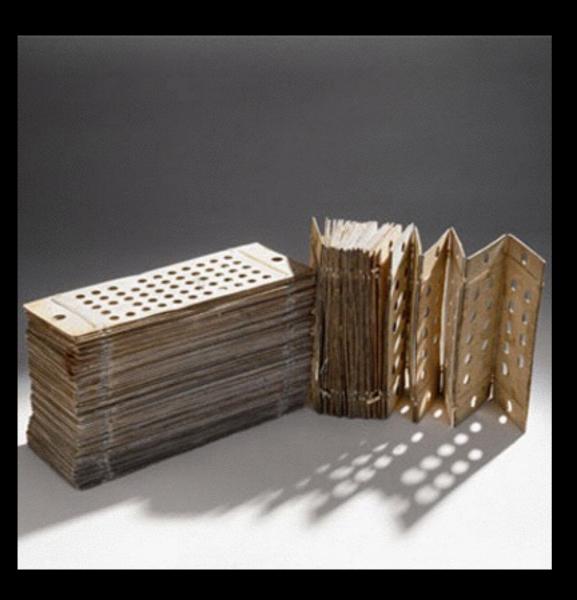


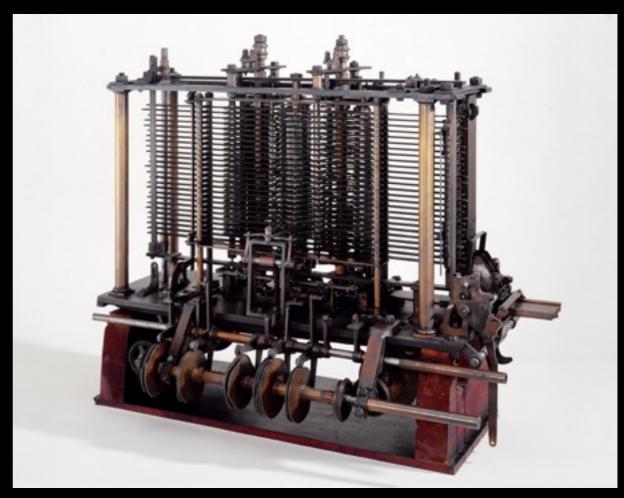
#### Difference Engine





# Analytical Engine





#### Ada's Translation



SHE DESCRIBED HEAD A POETICAL SCIENT When Ada Lovelace first saw the Difference Engine, she became obsessed. The early computing pioneer Charles Babbage invented this gigantic, gear-filled calculator. and after meeting him in 1833, Ada did everything she could to convince him to work with her. Ada's love affair with math started when she was very young. Her mother, Anne Isabella Milbanke, nicknamed the "Princess of Parallelograms," was a mathematician who wanted the right upbringing for her daughter. Ada's father was the famed poet Lord Byron. The wildness that made him an amazing poet also made Byron something of a lousy husband, which led Ada's mother to leave him after Ada was born. Her mother gave Ada an unusually strict mathematical education. HER LOST NUMBER FADM HER HUSBONS Ada met Charles Babbage when she was 17 and a very persistent WILLIAM KING, THE young woman. She begged him to take her on as a student, but he was FARL OF LOVELACE much too busy thinking up his next mechanical breakthrough. So when Ada saw an article in a Swiss journal about his newest idea, the Analytical Engine, she saw her chance to impress him. The article was written in French, which Ada spoke, so she

CELEDRATED ON THE

SHE WAS INSPIRED HARACTERS IN MARRATIVE

GRAPHIC NOVELS.

translated his paper into English and published it in 1843. But that wasn't all: she added her own notes, making it twice as long! This got Charles's attention, and their collaboration began.

Ada imagined a world where computers did more than mere calculations-a world where they could write music and become extensions of human thought. She also designed a way to program the Analytical Engine, using punch cards with a stepwise sequence of rational numbers called Bernoulli numbers. This is

> recognized as the first computer program everl Ada was a true visionary, and she remains an inspiration to this day. Her name has

become a call to action and proof that women can accomplish great things in technology. computing, and programming.



HER PROGRAM WAS





"Imagination is the discovering faculty, preeminently. It is that which penetrates — into the unseen worlds around us, the worlds of science"

- Ada Lovelace