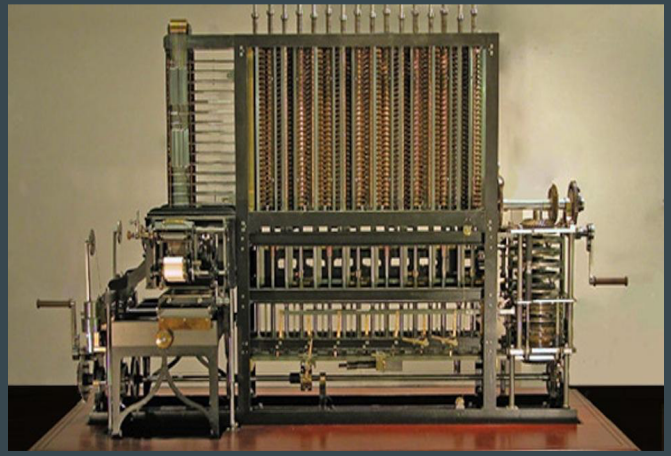
Ada Lovelace Portrait

By: John Adam (Researcher) - John.Adam@stonybrook.edu
Rebecca Kinsley (Secretary) - Rebecca.Kinsley@stonybrook.edu
Humayra Sayeed (Editor) - Humayra.Sayeed@stonybrook.edu
Prioti Taher (Photographer) - Prioti.Taher@stonybrook.edu

Photo Reenactment

Ada Lovelace - Portrait of Ada created by Margaret Sarah Carpenter in 1836. It is an oil based painting and it is currently in the Government Art Collection in London.

Summary

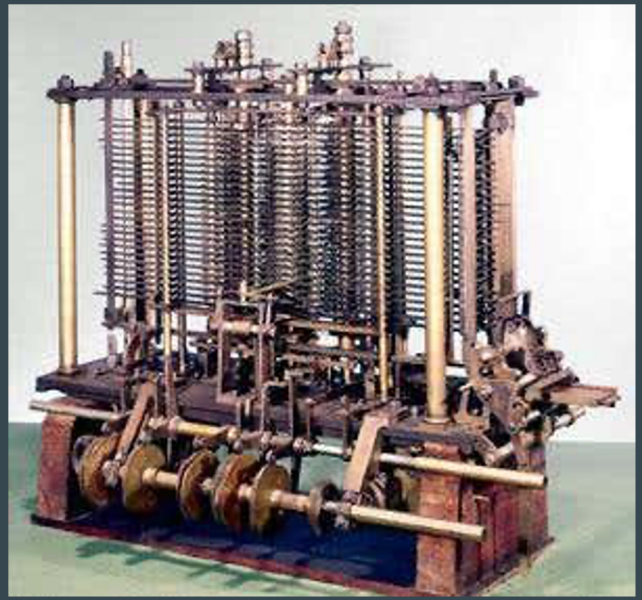


The Difference Engine

Ada Lovelace was born in 1815 in England but was taken away by her mother, to her grandparents' after learning of Lord Byron's infidelity. Her mother decided to temper Ada's own bad behavior by hiring her tutors in mathematics. Ada came to love mathematics. She famously coined the phrase, "Poetical Science", due to seeing the beauty of numbers. When she was older, she attended one of Charles Babbage's parties where he demonstrated a prototype of his Difference Engine. The Difference Engine was supposed to be a machine that could create nautical tables, which were typically error prone and different depending on which book you used, without error. She chased Charles Babbage's ideas and had help from her tutor in meeting him. She went on to translate Luigi Menebrea's notes on Charles Babbage's Analytical Engine from the lectures that Charles Babbage had in Italy from Italian to English. The translation of these notes are what truly made her famous. Not only did she translate these notes, but she also added on her own ideas for the Analytical Engine.

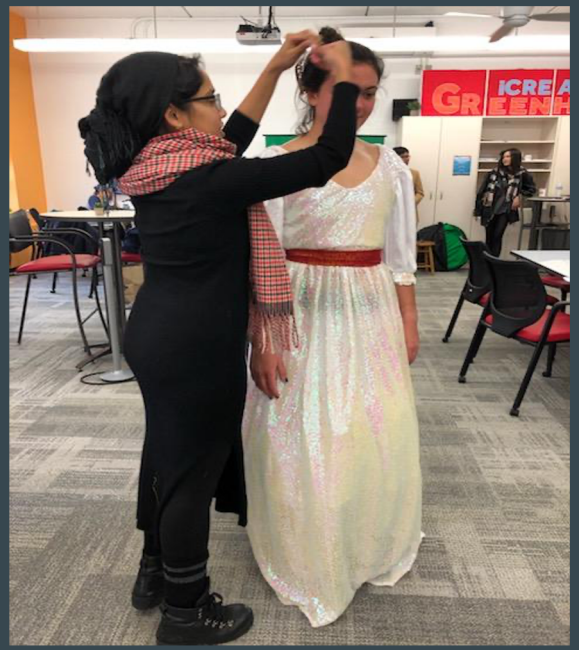
The Analytical Engine

- Ada explained in her notes that the Analytical Engine could be a general-purpose machine for the creation of music, not just calculation.
- It was her idea to use punch cards to program the machine to do new tasks, an idea later used for voting machines and early computers.
- Ada wrote how to compute Bernoulli numbers using the Analytical Machine, which gave her the title of the first programmer.
- She had her own programming language called “Ada” named after her by the Department of Defense. She is an idol for many female programmers.



Production Process

Humayra Sayeed working as the designer behind the scene

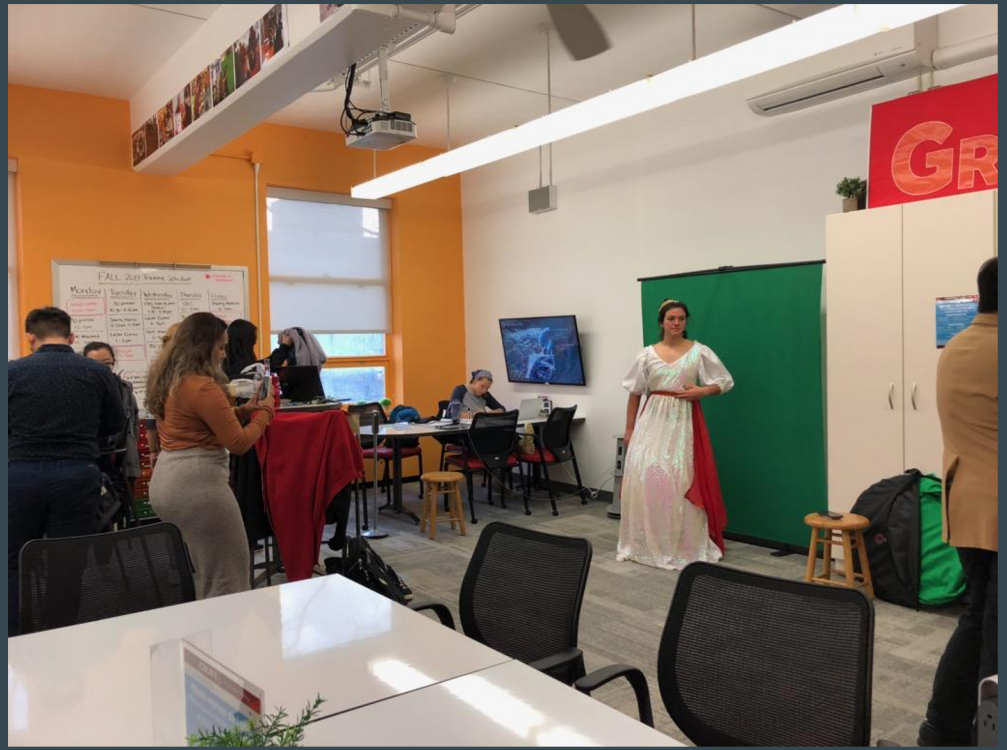


Production Process

Humayra Sayeed fixes Rebecca Kinsley’s dress as she gets ready to pose

Production Process

Prioti Taher working on perfecting the skills of photography to recreate the image as Rebecca Kinsley poses like Ada Lovelace



Final Reenactment

Photoshop
and
cropping

iCREATE Greenhouse

Original vs Reenactment

References

“(Augusta) Ada King, Countess of Lovelace (1815-1852) Mathematician; Daughter of Lord Byron.” *Government Art Collection*, artcollection.culture.gov.uk/artwork/2172/.

Https://Www.eu-Startups.com/Wp-Content/Uploads/2019/10/Ada-Lovelace.png, Google, www.google.com/imgres

“The Babbage Engine.” The Babbage Engine | Babbage Engine | Computer History Museum, www.computerhistory.org/babbage/.