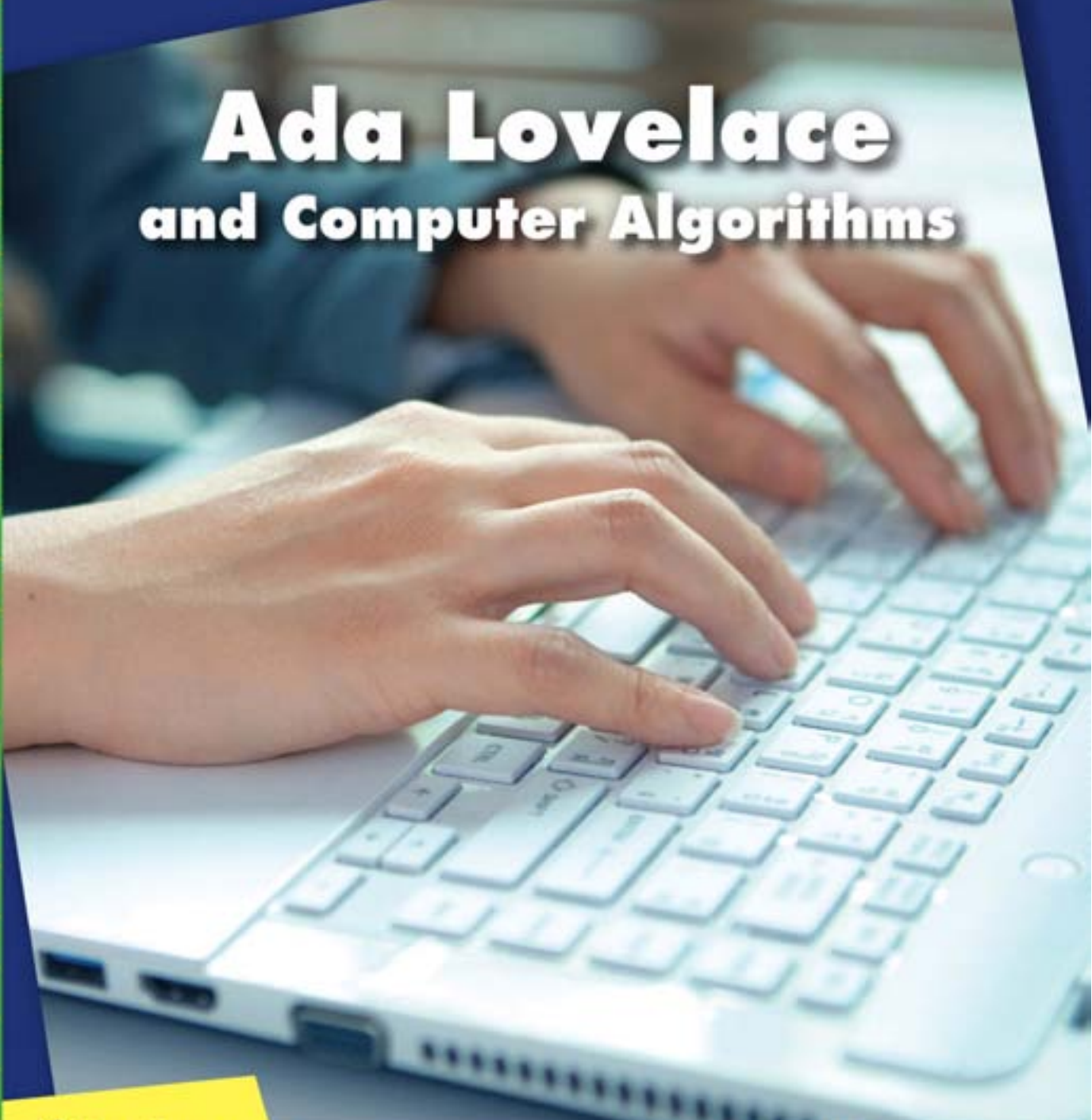


# Ada Lovelace and Computer Algorithms



21st Century  
**Junior** Library

Women Innovators



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Computers are an important part of everyday life.

# A Woman

Do you use a computer? Maybe you use it to do your homework. Or maybe you play video games on it. Thanks to the people who created them, computers do many different things.

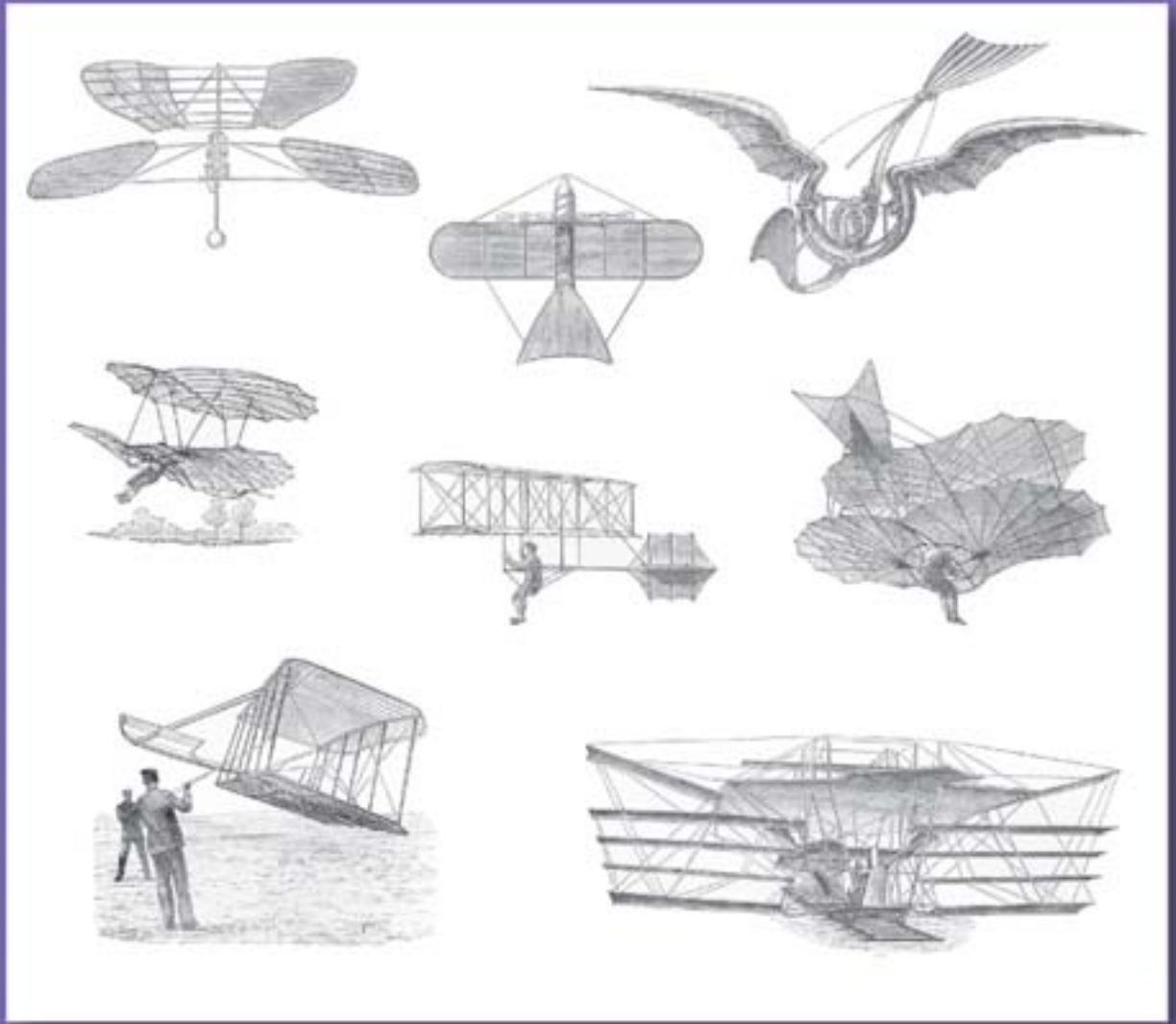
Ada Lovelace was the world's first **computer programmer**. She was born more than 200 years ago. Without her, computers would not be what they are today!





Lovelace's independence and interest in math made her an unusual woman for her time.

Augusta Ada Lovelace was born on December 10, 1815, in London, England. Her dad was the famous poet Lord Byron. Her mom was Annabella Byron. Her parents separated soon after Ada was born. Her mom raised her.



For centuries, people tried and failed to create a successful flying machine.

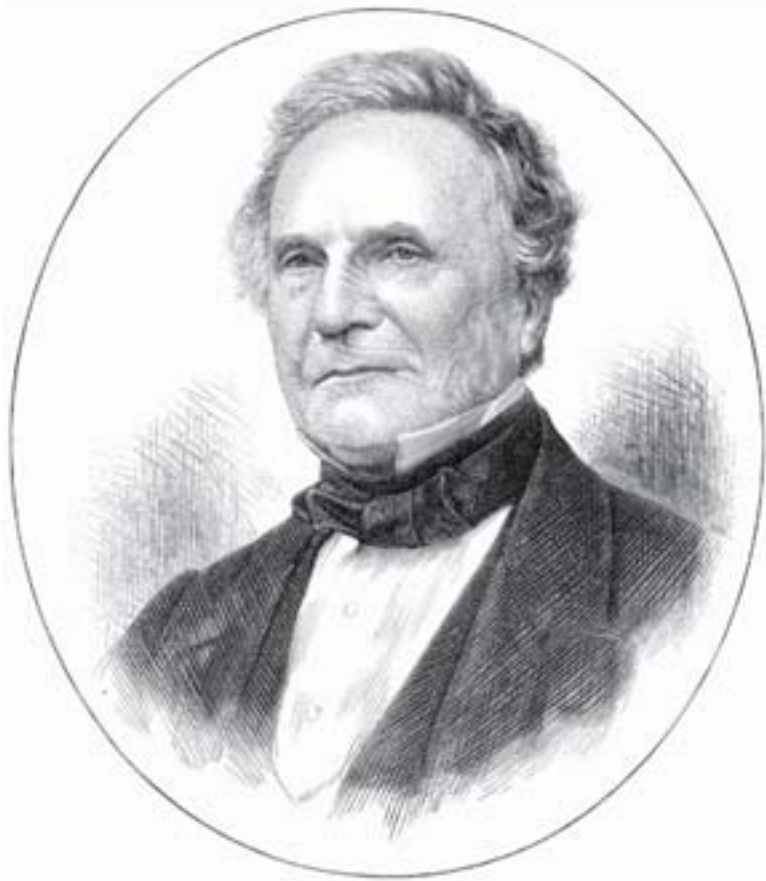


Ada's mom wanted her to study hard. She hired tutors to teach her daughter every subject. Ada was good in math and science. And like her poet father, she saw beauty in everything. Ada loved machines. She wanted to build a flying one someday.



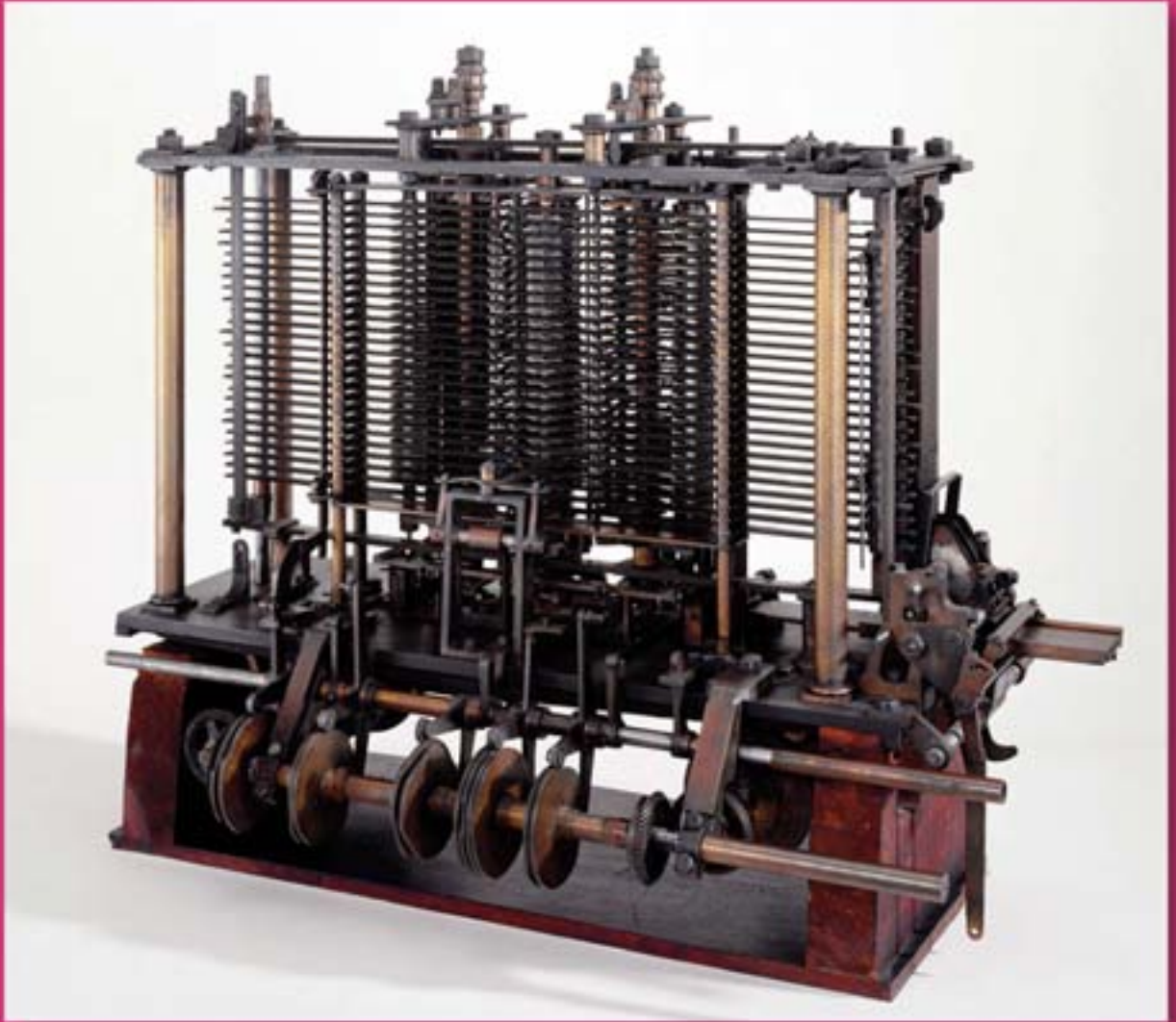
## Create!

Ada designed a flying machine long before airplanes ever existed. Can you create a new machine? Make a detailed drawing of your new **invention**. Include instructions about how it will work.



Charles Babbage thought math could be done more easily with a machine.

When Ada was 17, she met the famous **mathematician** Charles Babbage. The two became friends. Babbage created a machine called the Analytical Engine. It was one of the first computers that could solve complex math problems.



Today, you can see the Analytical Engine at the Science Museum in London.

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