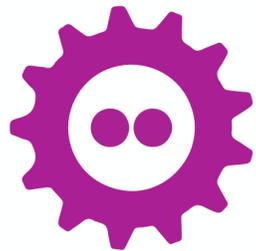


Where have the women of tech history gone?

Laura Durieux - FOSDEM 2024 - 03/02/2024



FOSDEM

Once upon a time...

Once upon a time...

Why do you present so few women in your syllabus?

Once upon a time...

Why do you present so few women in your syllabus?

Because I don't have enough class time to add more artists to my syllabus. Some students may not have the required foundations for the future.

Once upon a time...

Because I don't have enough class time to add more artists to my syllabus. Some students may not have the required foundations for the future.

Once upon a time...

Because I don't have enough class time to add more artists to my syllabus. Some students may not have 😊 the required foundations for the future.

Once upon a time...

Because I do not have class time to
add more activities. Some
students may be required
foundation



Once upon a time...



Why are women not considered as the required “basis” ?
What do they have less than men ?

Once upon a time...



Who is the person or the group of persons who decide what someone deserves more than another to be in a syllabus ?

Once upon a time...

Present in the majority of fields

But let's focus on the field of computer
science for today.

**And you, do you know any women
in computer science?**

Women in tech history

Computer

Computer was a job

Nicole-Reine Lepaute 1723 - 1788



- One of the most famous astronomers of the Age of Enlightenment
- She calculated the return date of Halley's comet

Maria Mitchell

1818 - 1889



- Astronomer, librarian, naturalist, and professor at Vassar College
- First professional woman astronomer in America
- First person to discover a telescopic comet

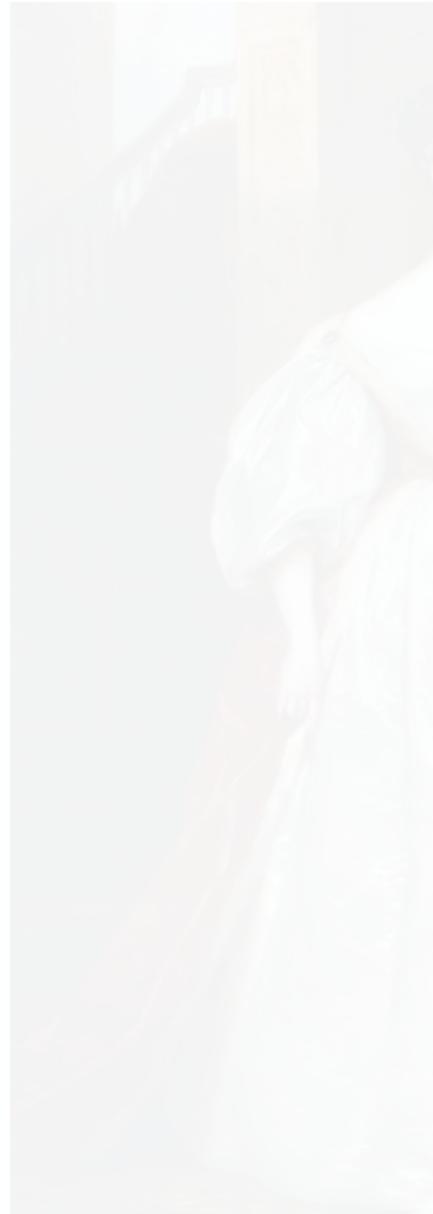
The 19th century

The 19th century

Access to degrees 

Must resign when married 

Ada Lovelace



Ada Lovelace

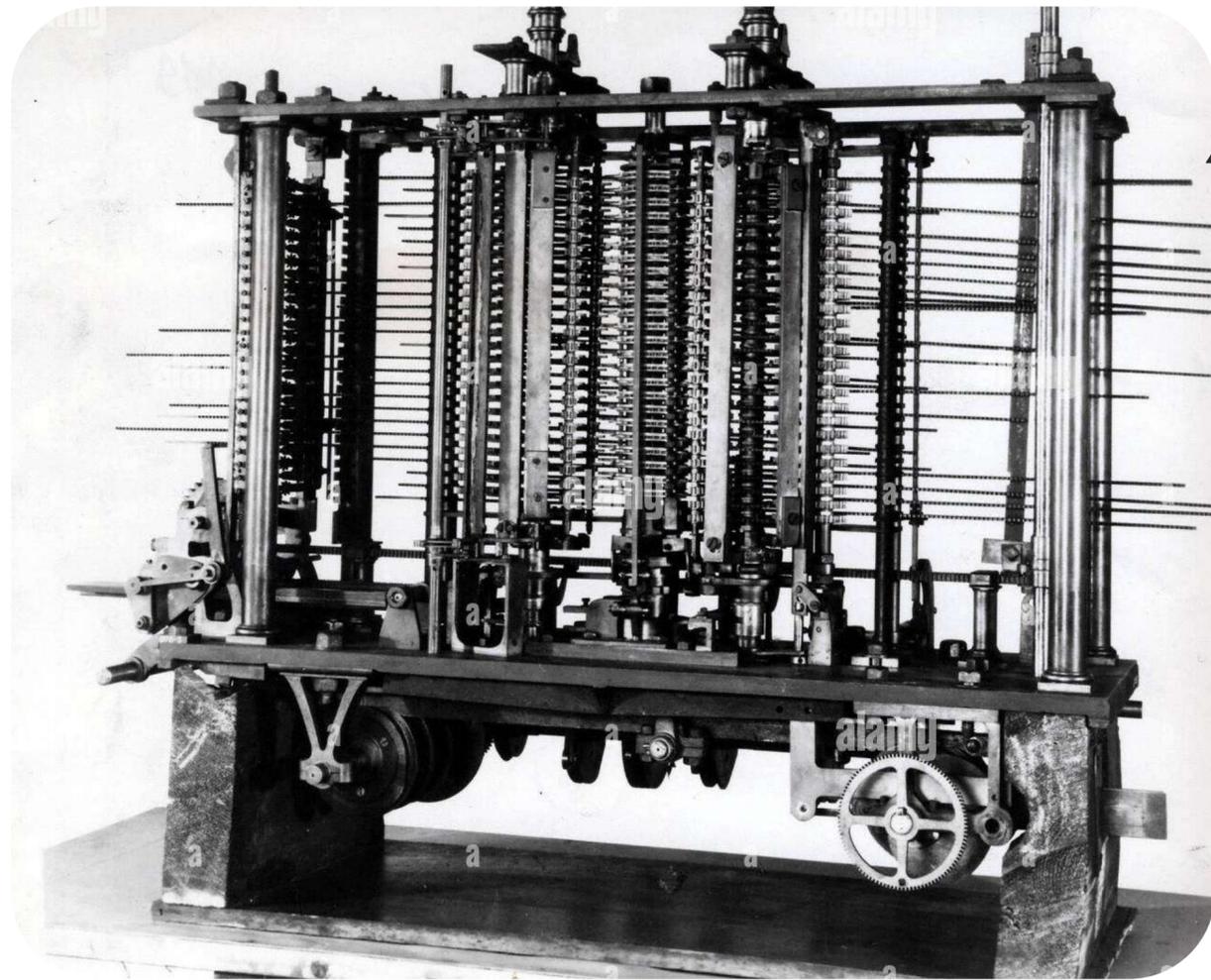
1815 - 1852



Only the first programmer ?



Ad



Analytical Engine



Ada Lovelace

1815 - 1852



Only the first programmer ?

- Famous for her notes on the Analytic Engine
- She wrote the first algorithm

Ada Lovelace

1815 - 1852



Only the first programmer ?

- Famous for her notes on the Analytic Engine
- She wrote the first algorithm

**She is the mother of
computer science**

Harvard Computers



A group of women working at the Harvard Observatory, founded by Edward Charles Pickering.

- They classified more than 10.000 stars

Annie Jump Cannon 1863 - 1941



- Astronomer and an Harvard Computer
- Develops a method for classifying stars, which will be adopted by all astronomers starting from 1910
- Classified 5.000 stars per month, or 1 per 3 seconds

Grete Hermann

1901-1984



- Pioneer in quantum mechanics
- At the origin of computer algebra

Grete Hermann

1901-1984



- Pioneer in quantum mechanics
- At the origin of computer algebra

Computer algebra

scientific area that refers to the study and development of algorithms and software for manipulating mathematical expressions and other mathematical objects

Source: Wikipedia

Between the 1940s and the 1970s

Women were widely hired as coders

Between the 1940s and the 1970s

Women were widely hired as coders

- Emerging field
- Few job opportunities or blocked careers in other scientific fields
- Shortage of manpower

Grace Hopper

1906 - 1992



- Creation of the Mark I in 1937 by Howard Aiken
- The third developer of the Mark I and wrote the 521-page user manual

ENIAC Girls



6 astounding women have revolutionized the IT world as we know it today

Kathleen McNulty Antonelli

Marlyn Wescoff Meltzer

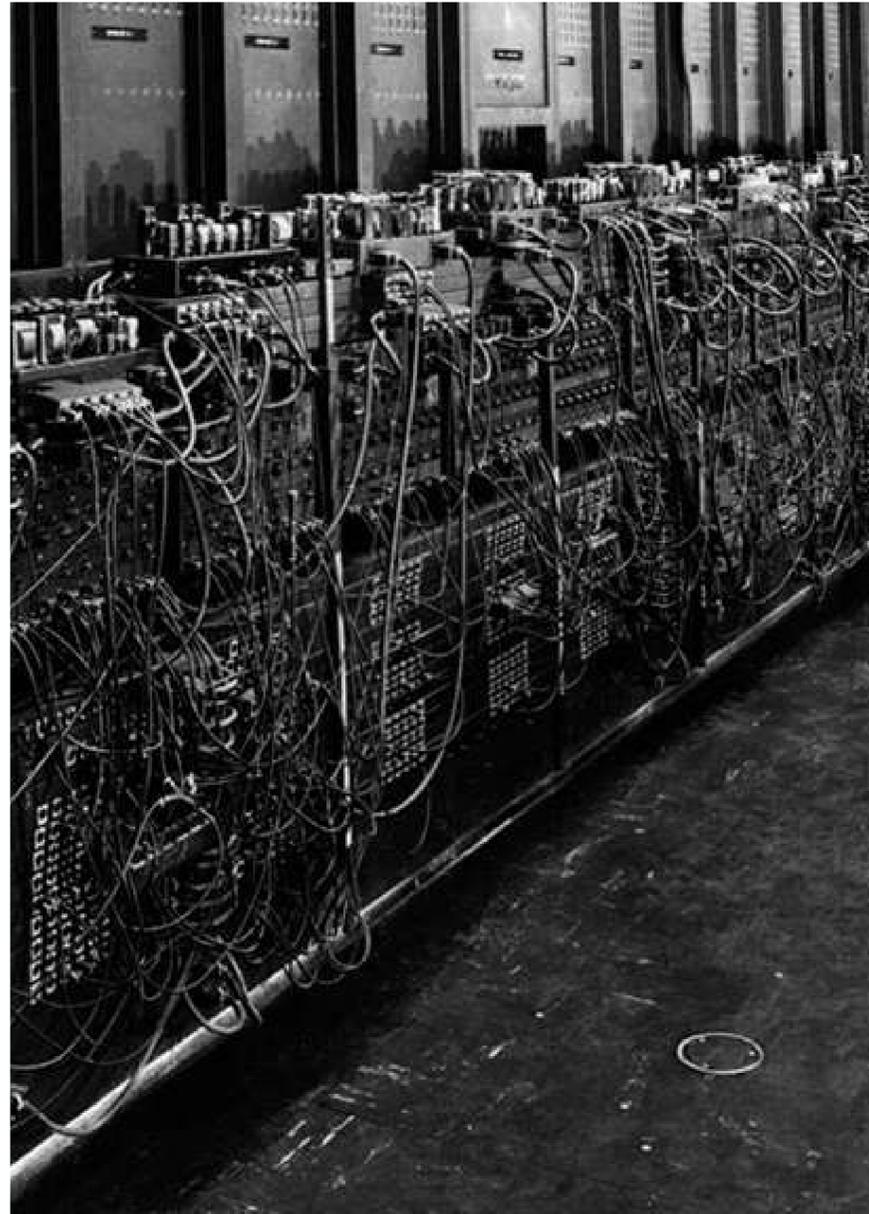
Betty Jean Jennings

Frances (Bilas) Spence

Betty (Snyder) Holberton

Ruth (Lichterman) Teitelbaum

ENIAC Girls



ENIAC; **E**lectronic **N**umerical Integrator **A**nd **C**omputer

Anecdotes

- Mathematics degree in common
- They were responsible for installing and assembling the ENIAC
- Ancestors of the debugger

Hedy Lamarr

1914 - 2000



- Renowned movie star
- She invented the FHSS, the technology that is still behind the Wi-Fi and Bluetooth today

When it comes to unusual career changes, I think we're reaching new heights

The 1950s

A new way of thinking about code is emerging

The 1950s

A new way of thinking about code is emerging

- hardware constraints
- Rise of the image of the creative genius
- Beginning of stereotypes

Grace Hopper

1906 - 1992



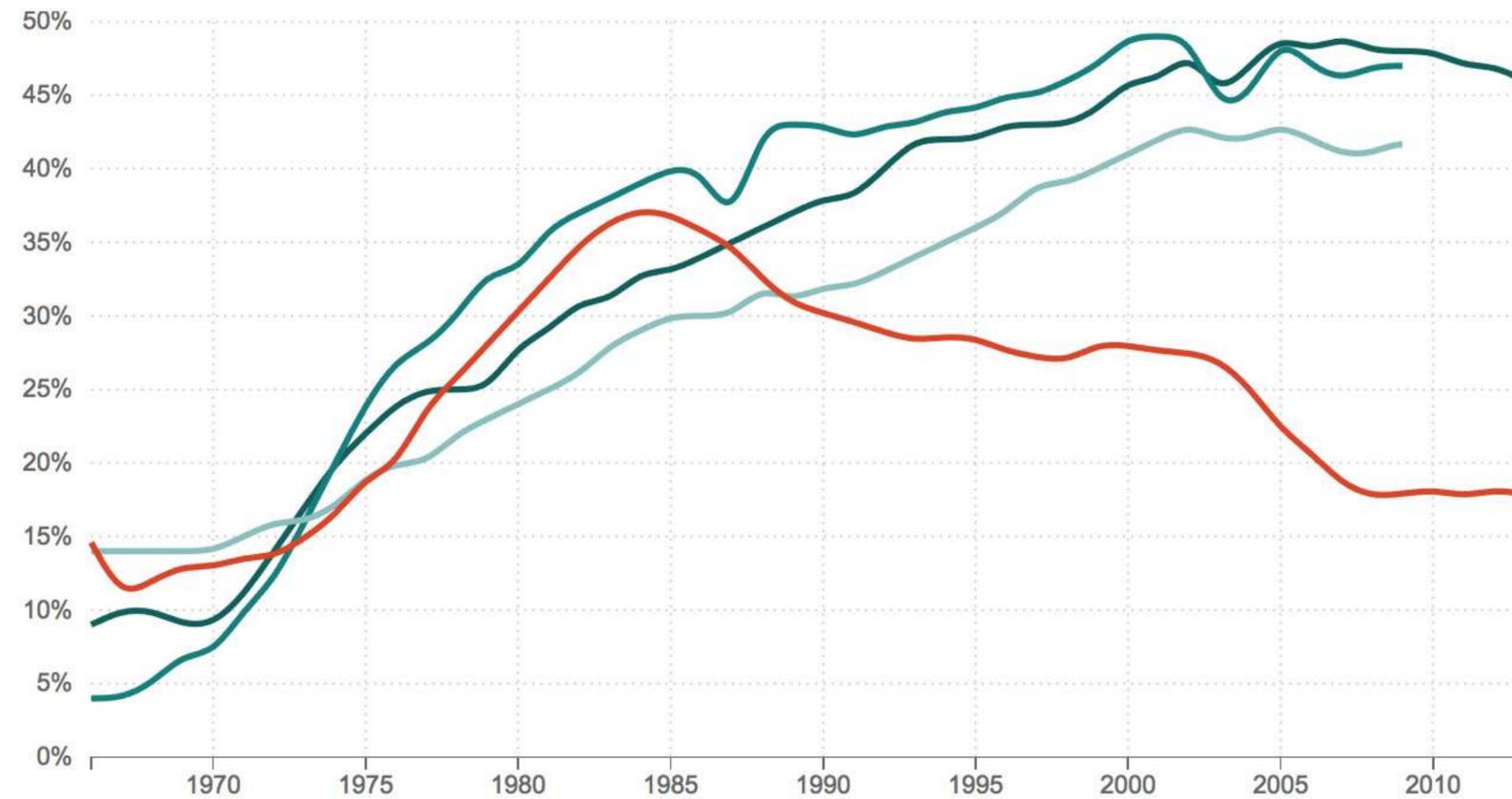
Known as the queen of software

- Created the compiler in 1949
- One of the main creator of the COBOL language

What Happened To Women In Computer Science?

% Of Women Majors, By Field

■ Medical School ■ Law School ■ Physical Sciences ■ Computer science

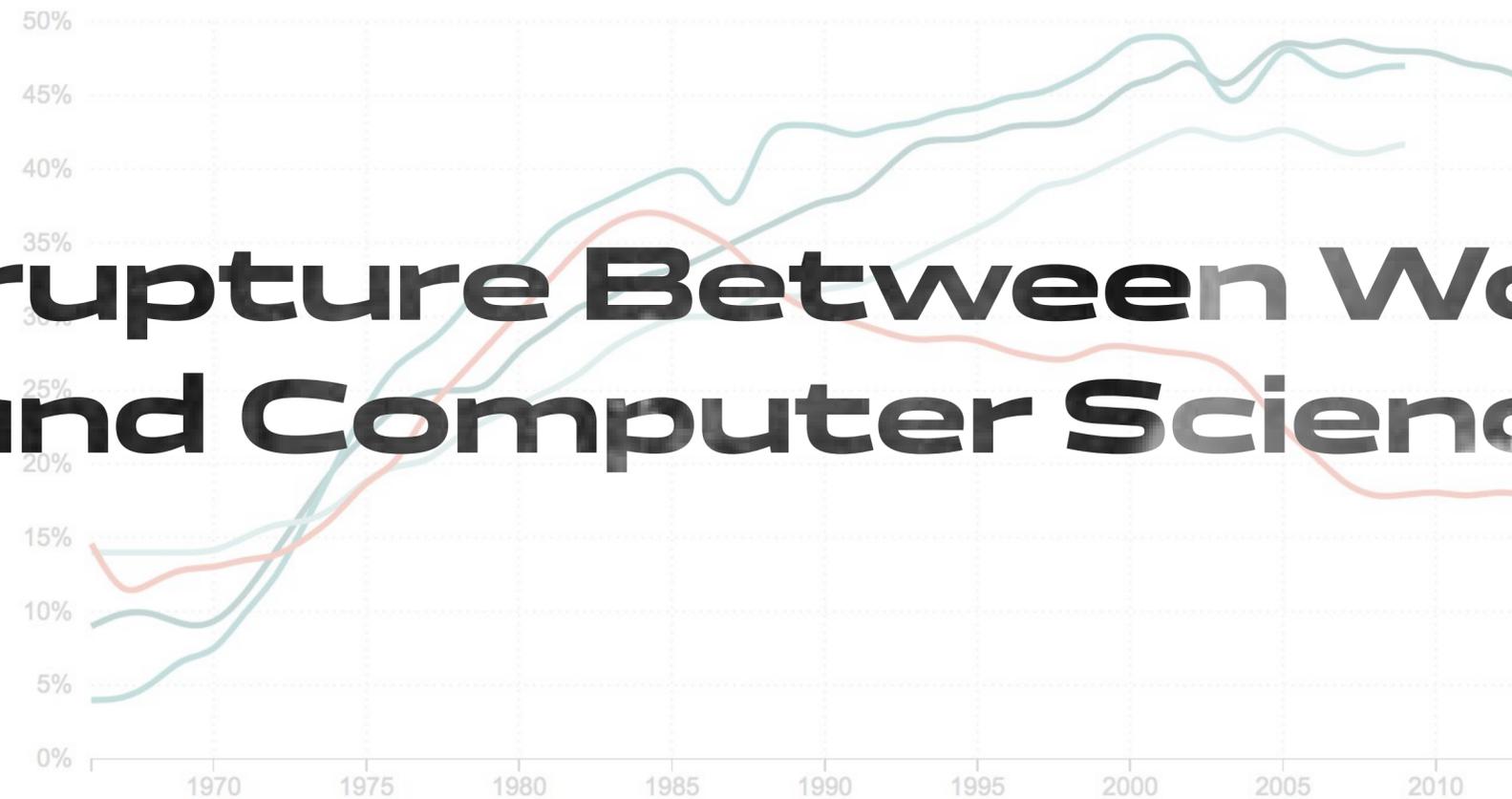


Source: National Science Foundation, American Bar Association, American Association of Medical Colleges
Credit: Quoctrung Bui/NPR

What Happened To Women In Computer Science?

% Of Women Majors, By Field

Medical School Law School Physical Sciences Computer science



Source: National Science Foundation, American Bar Association, American Association of Medical Colleges
Credit: Quoctrung Bui/NPR

The rupture Between Women and Computer Science

The arrival of the Personal Computer (or PC) in 1981

Karen Spärck Jones

1935 - 2007



- scientist and researcher in computer science
- She worked on the Natural Language Processing (NLP)
- She developed the TF-IDF method, still used by most search engines

The philosophy of the hacker spirit

Only the works of hackers are judged,
not the hackers themselves

The p

Blog +  **TECH**

Nouvelles Apps Gadgets Jeux **Blogs** 🔍

Les 10 plus belles hackeuses du monde qui te font chaud »

🔥 219 📖 6 minutes read

La plupart d'entre nous ne connaissent que les Men Hackers. Mais connaissez-vous votre chemin ? Des hackeuses ? Peu d'entre nous savent qu'il existe de nombreuses et notoires femmes hackers dans le monde, et donc beaucoup sont surpris d'apprendre qu'il y a une poignée de femmes qui ont trouvé une place dans ce monde. Il s'agit d'une industrie en développement de plusieurs milliards de dollars, car certains pirates informatiques sont souvent blâmés pour des dommages irréparables tandis que d'autres sont simultanément crédités de certaines des plus grandes percées technologiques.





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spirit

Joanna Rutkowska

1981



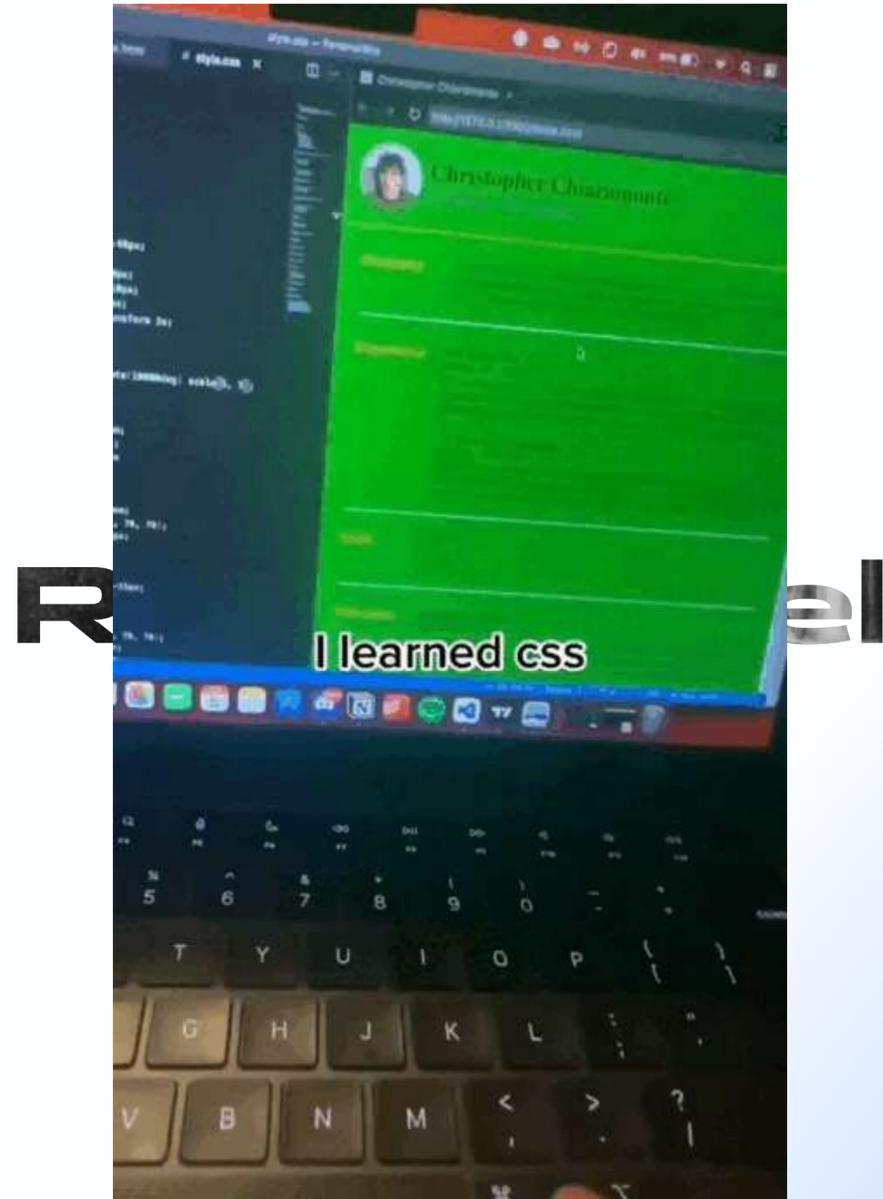
- Experte in cybersecurity
- Known for her research on low-level security and stealth malware

Conclusion

Conclusion

Role model

Conclusion



Conclusion

Role model

Conclusion

Aurélie Jean 1982



Role model

Conclusion

Role model

Conclusion

Role model

Narrate,
Encourage,
Propagate

Laura Durieux

A.K.A

DevGirl_

Fullstack web developer

WorldSkills Belgium gold medal 2020 & 2021

Streamer on Twitch

Show presenter "On est pas des iencli" on RTBF iXPÉ



DevGirl_



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contact@lauradurieux.dev

✨ Thank you ✨



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MEETUP

#32

EXPLORING THE TWITCH API BY CREATING A MALWARE FOR AN OVERLAY, USING EXPRESS.JS AND SOCKET.IO



Laura Durieux

Fullstack Developer & Streamer



Tuesday, Feb. 13



18:30



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1000 BRUSSELS**