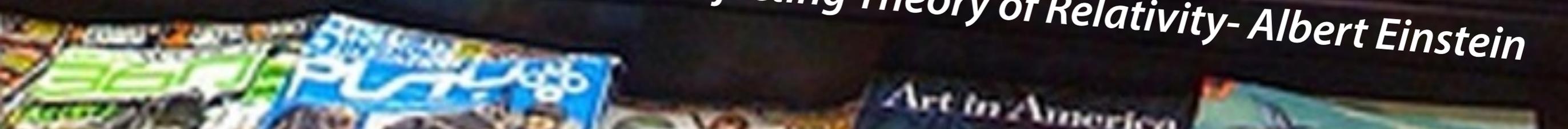


Projecting Theory of Relativity- Albert Einstein



TEK: TECHNOLOGY QUARTERLY

Two keys to Einstein's
success:

Optimism

Hybridization

Read more on pg. 52

Optimism:

the tendency to look on the
more favorable side of
happenings and to
anticipate the most
favorable results

The
Economist

www.economist.com

SEPTEMBER 12TH 2008

Europe
to

stands up

Russia



TEK: TECHNOLOGY QUARTERLY

Two keys to Einstein's success:

Optimism

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Read more on pg. 52

The Economist

www.economist.com

SEPTEMBER 01

Europe to Russia

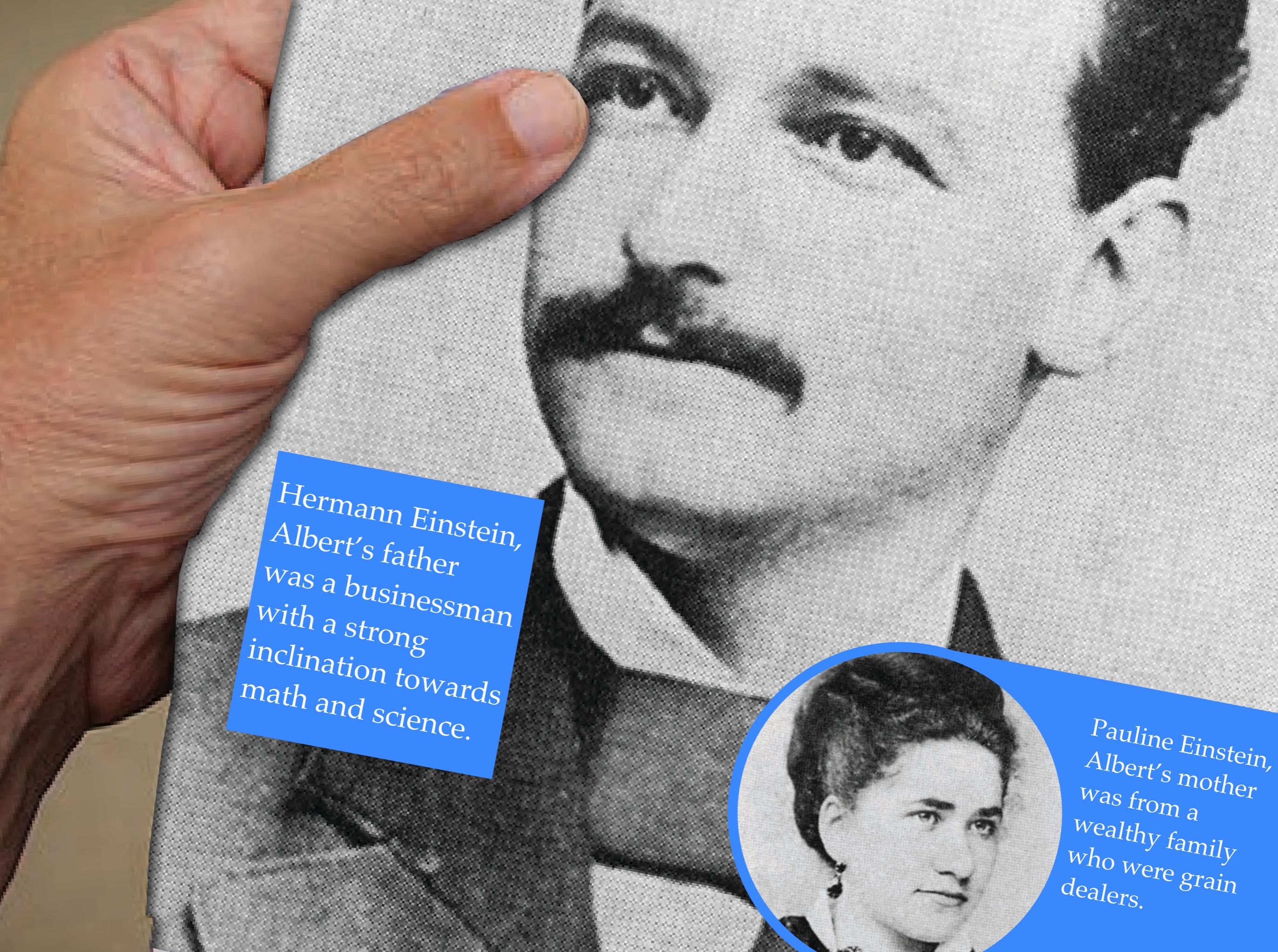
stands up

Russia

Hybrid:

anything derived from heterogeneous sources or composed of elements of different or incongruous kinds





Hermann Einstein,
Albert's father
was a businessman
with a strong
inclination towards
math and science.



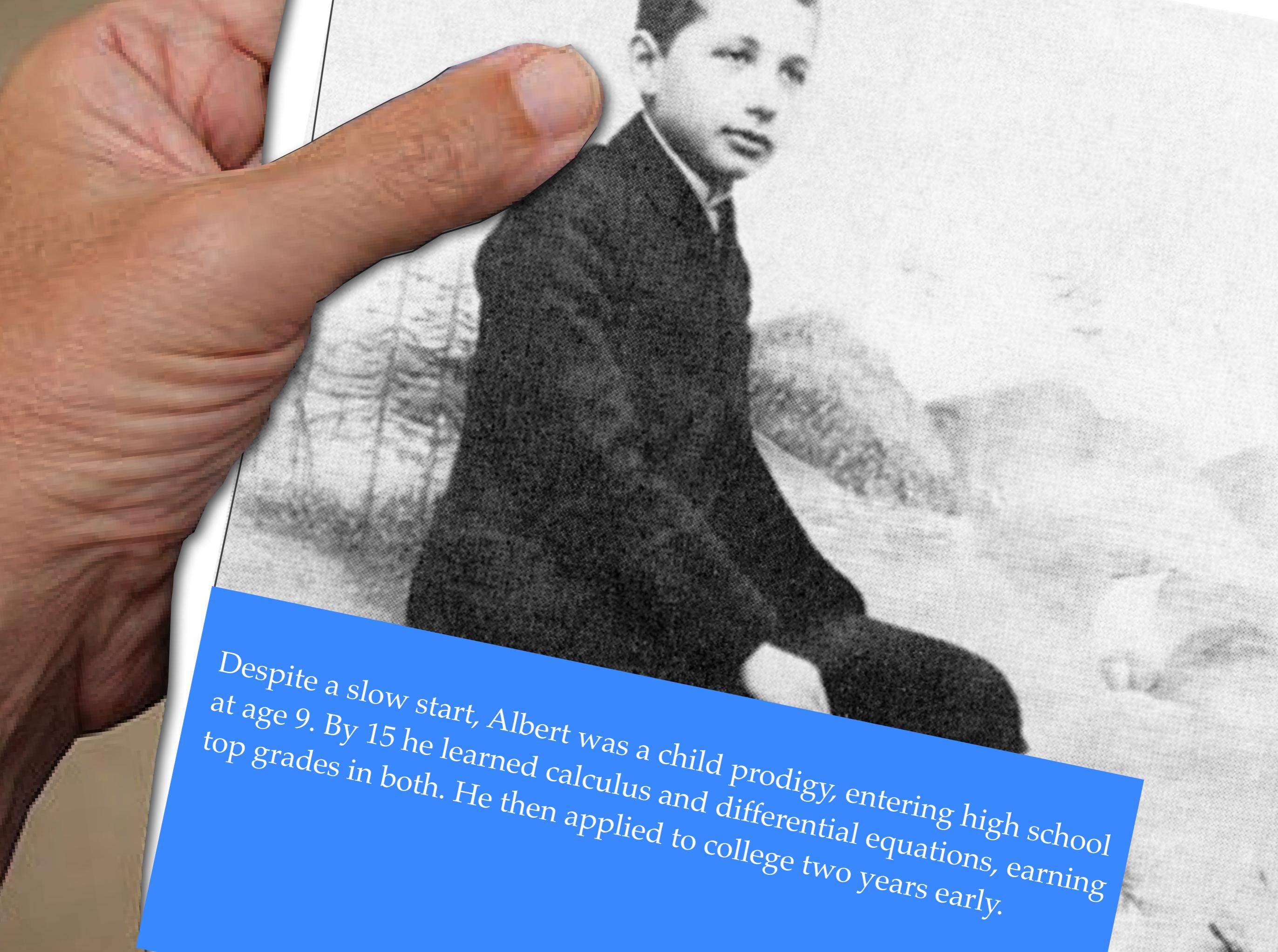
Pauline Einstein,
Albert's mother
was from a
wealthy family
who were grain
dealers.



Young Albert was slow to develop- poor language skills-
cheeky rebelliousness to authority- temper tantrums
He was cocky and hard for his schoolmates to control.

A woman with dark hair pulled back, wearing a white tank top and a green apron with the word "Opinión" printed on it, sits in a chair. She is looking directly at the camera with a neutral expression. The background is a dense, colorful display of various magazines and newspapers, including titles like "Sazón", "Atoles", "Listen", and "Solo". The store appears to be a small, cluttered kiosk or stall. A semi-transparent white speech bubble is overlaid on the right side of the image, containing text.

Albert had an intelligent family that strongly believed in the merits of education.



Despite a slow start, Albert was a child prodigy, entering high school at age 9. By 15 he learned calculus and differential equations, earning top grades in both. He then applied to college two years early.

I was very interested in music and philosophy throughout my life.....
not too shabby on the violin if I do
say so myself.

People



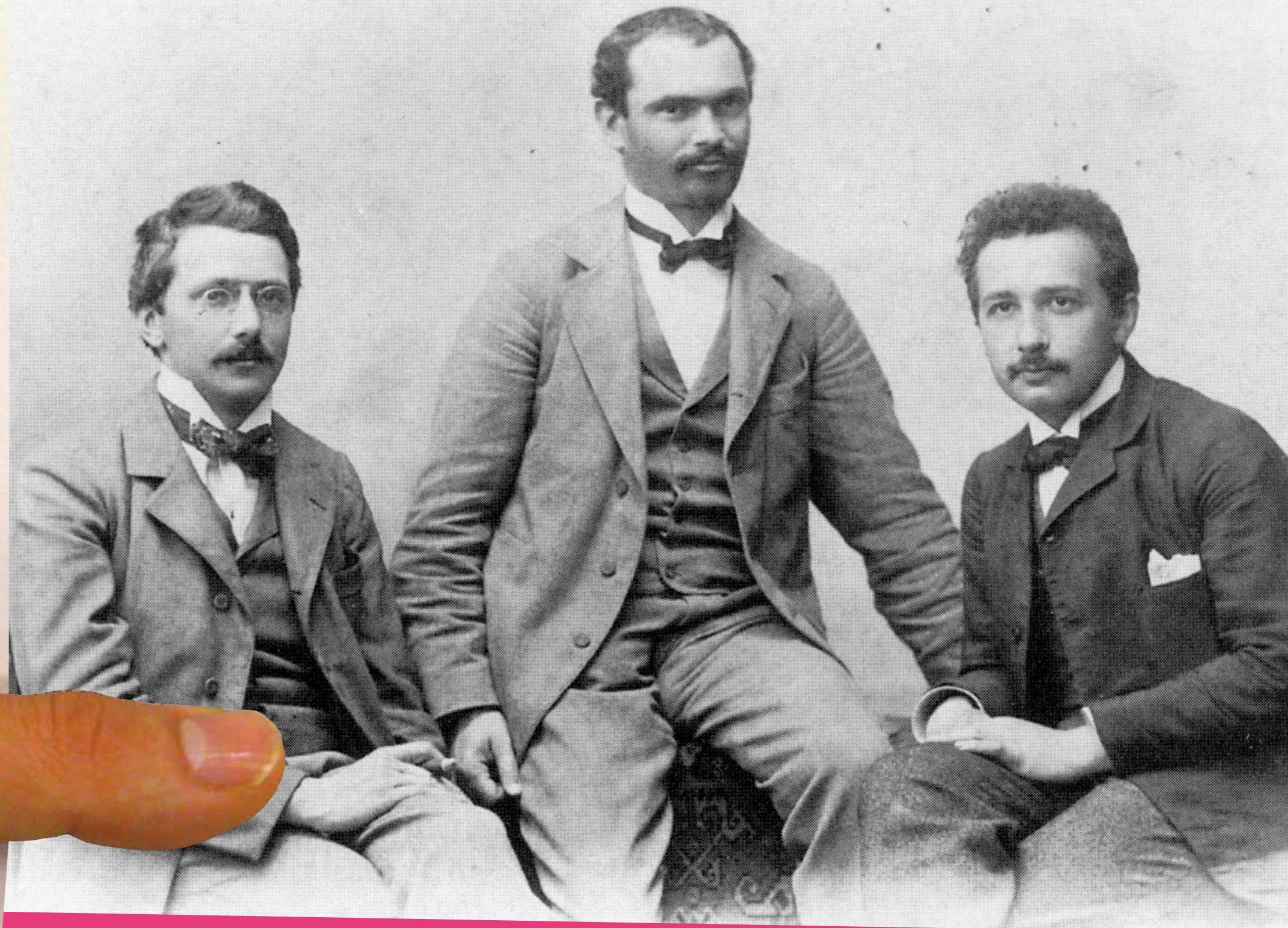
Einstein was also fascinated by science as a child..... after receiving a compass he became curious about invisible forces. He had the curiosity of a child his entire life.



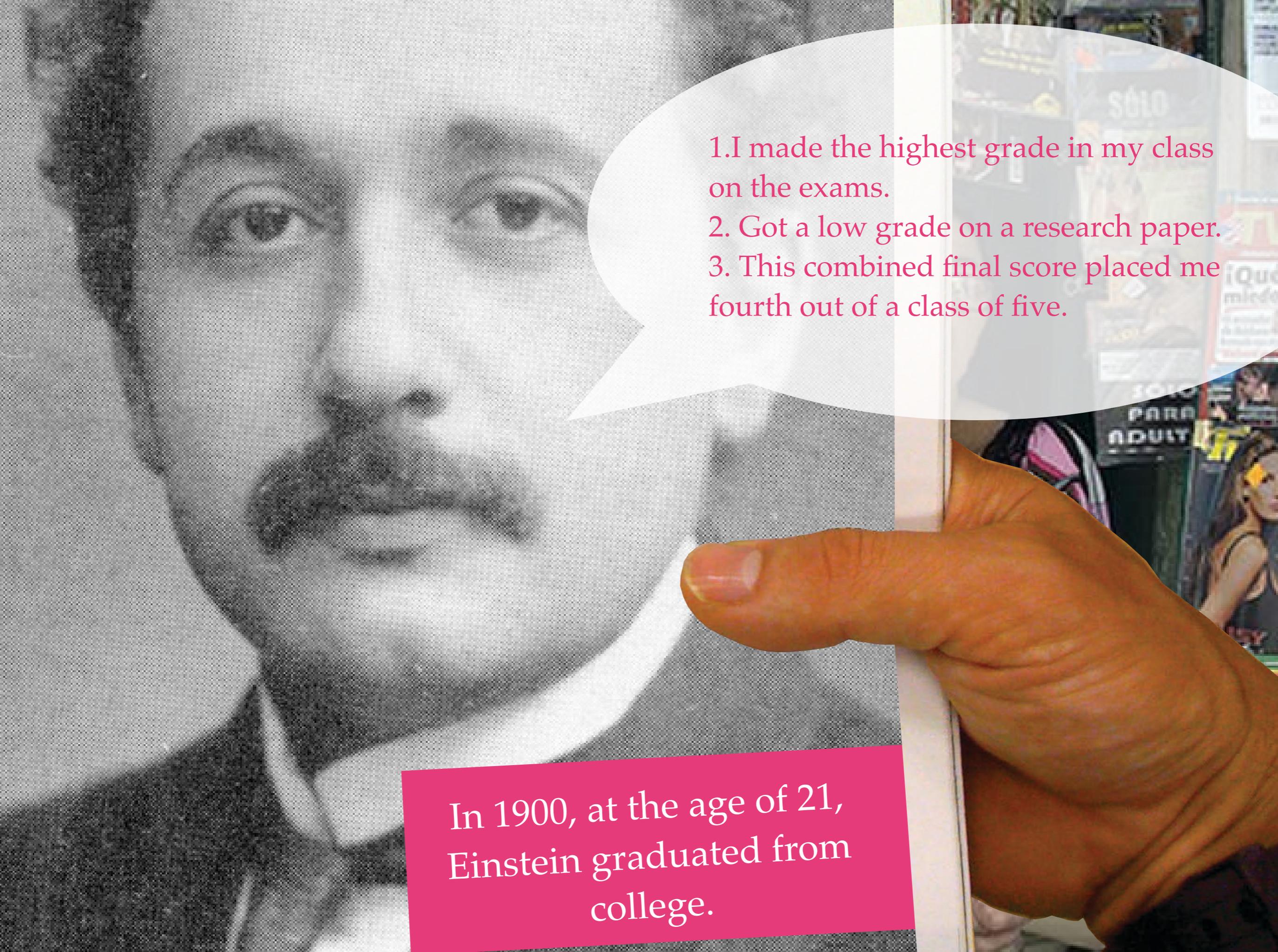


In 1896, at age 17, Albert entered the Zurich Polytechnic.
The same year his father and uncle's business failed and
his family moved to Milan to start a similar business.

People



Unfortunately the ETH was not a good fit for Albert, culturally (given his diverse background) and academically. He increasingly became disillusioned with the professors.

- 
1. I made the highest grade in my class on the exams.
 2. Got a low grade on a research paper.
 3. This combined final score placed me fourth out of a class of five.

In 1900, at the age of 21, Einstein graduated from college.

Star

- * Low opinion of TYPICAL marriage
- * Finds his Mother's friends 'indolent'
- * Plays Mother and wife off of one another

**EINSTEIN'S
REBELLIOUSNESS!**



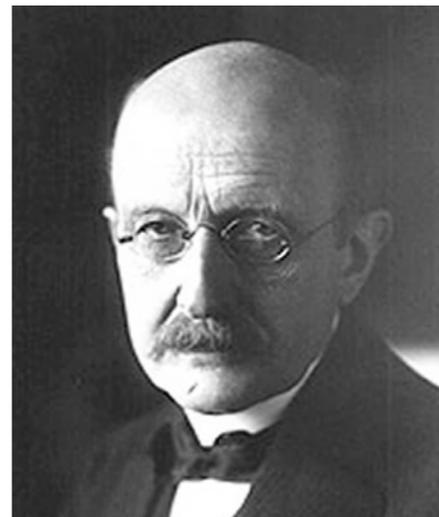
Einstein was impudent to his professors, skipping class then expecting a good recommendation.



He had a child out of wedlock with Mileva which was considered disgraceful for a good Jewish family

EINSTEIN'S REBELLIOUSNESS!

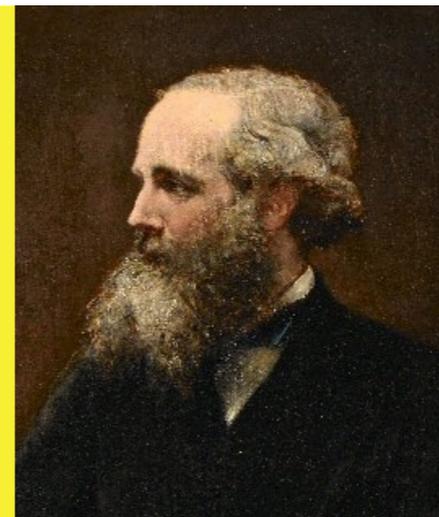
ALBERT **RIDICULES** THE LEADING PHYSICISTS OF THE DAY



Max Planck



Paul Drude



James Maxwell



Alfred Kleiner

**'Blind respect for authority
is the enemy of truth.'**



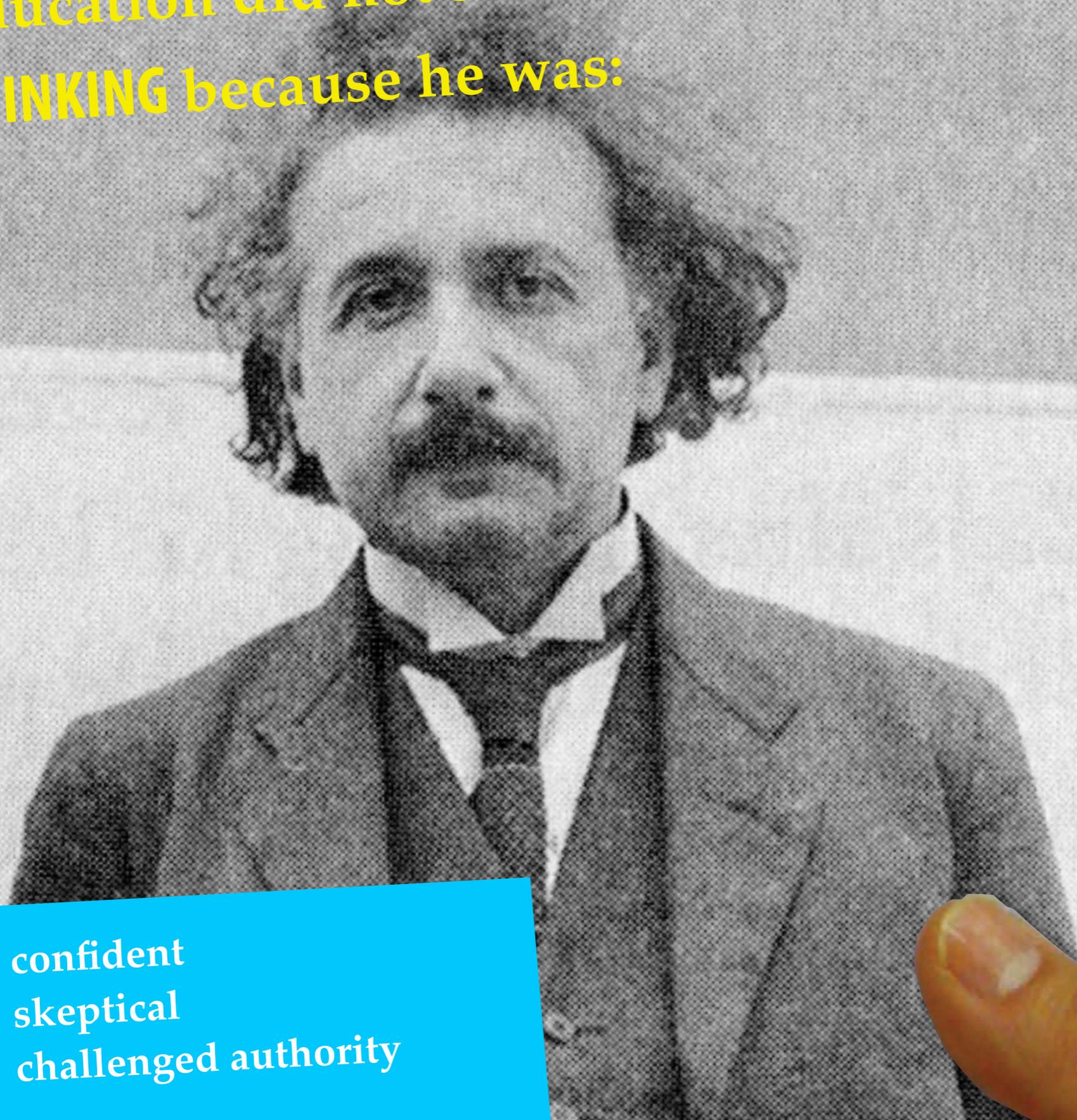
**'Long Live Impudence! It is my
guardian angel in the world.'**

NEWSSTAND

Rebellion and Independent Thinking
allowed Einstein to challenge basic
assumptions.



Education did not stifle his **INDEPENDENT THINKING** because he was:



- * confident
- * skeptical
- * challenged authority

GATEWAY
NEWSTANDS

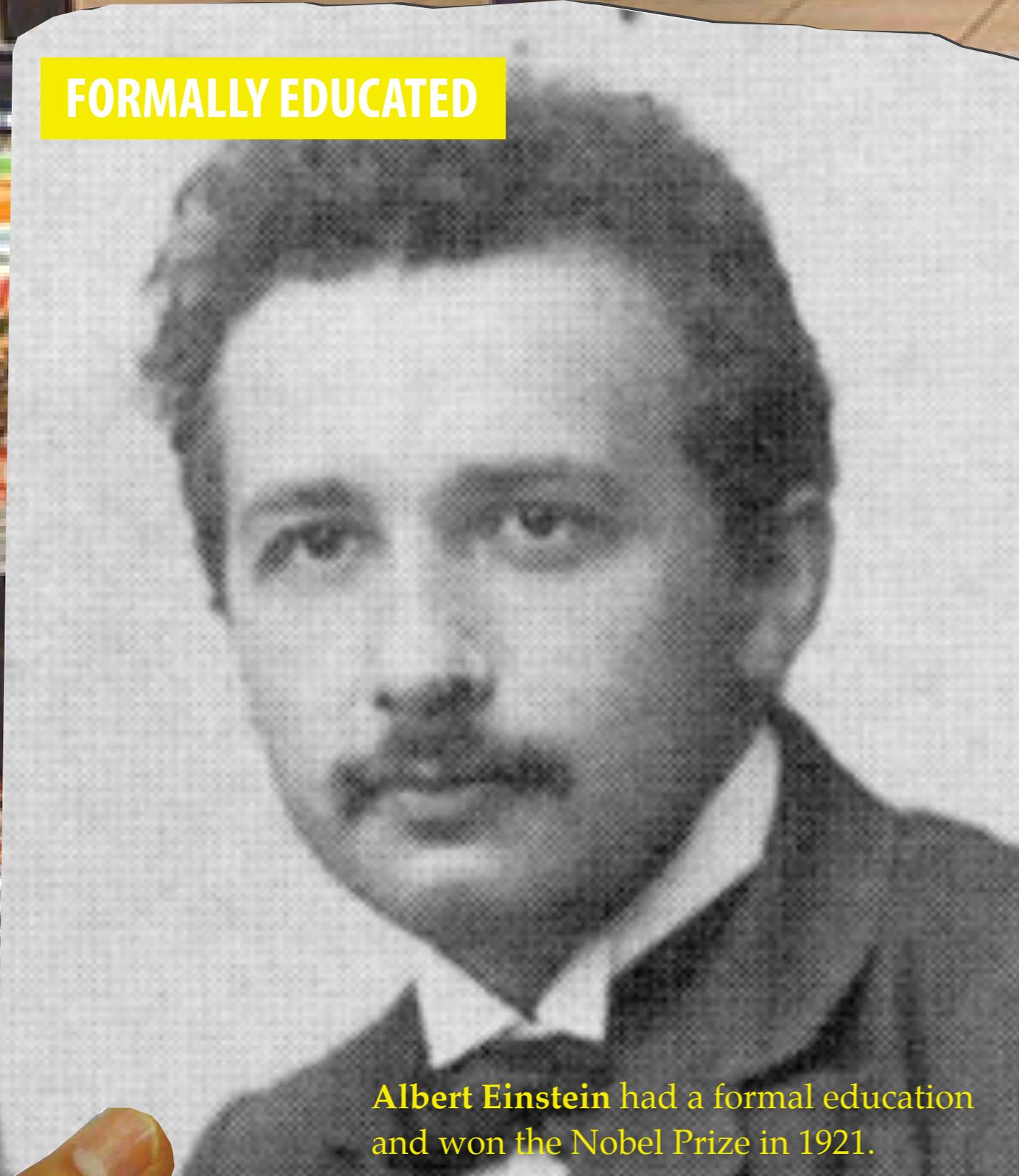
Should we conclude from this that conventional formal education is problematic or needs to be rejected?





Featured Title

FORMALLY EDUCATED



Albert Einstein had a formal education and won the Nobel Prize in 1921.

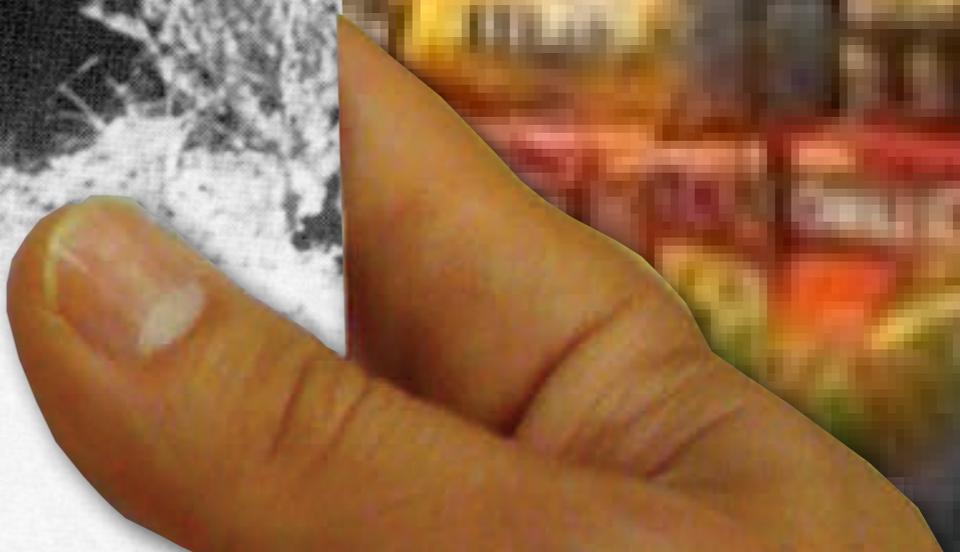
SELF-EDUCATED



Guglielmo Marconi was entirely self-educated and won the Nobel Prize in 1921.

People

**FIVE LESSONS ABOUT
CREATIVITY FROM
ALBERT EINSTEIN**



Five Lessons About Creativity From Einstein

I. Lifestyle & Job

Do open-ended jobs encourage creativity?

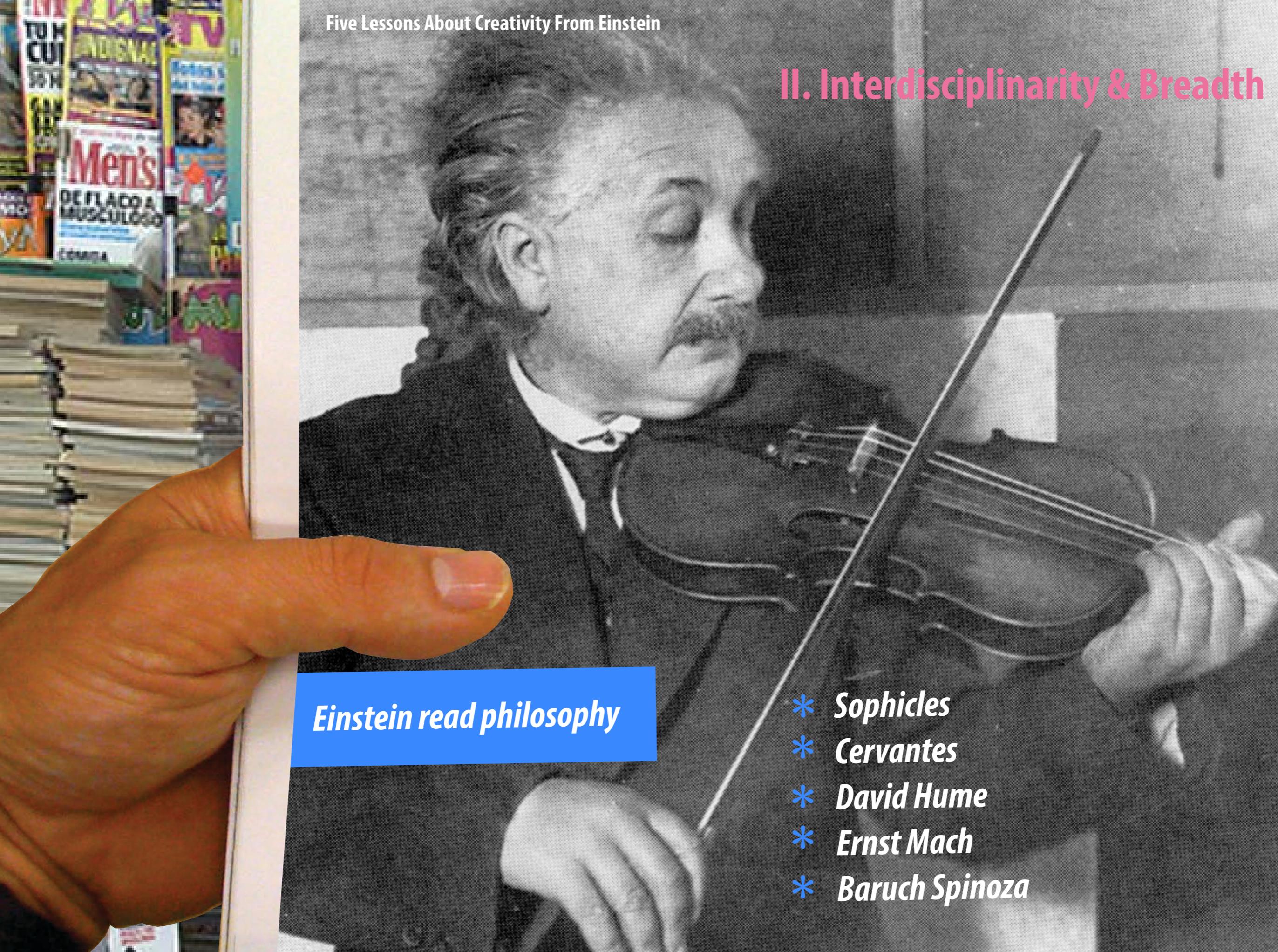
Do routine jobs stifle creativity?



II. Interdisciplinarity & Breadth

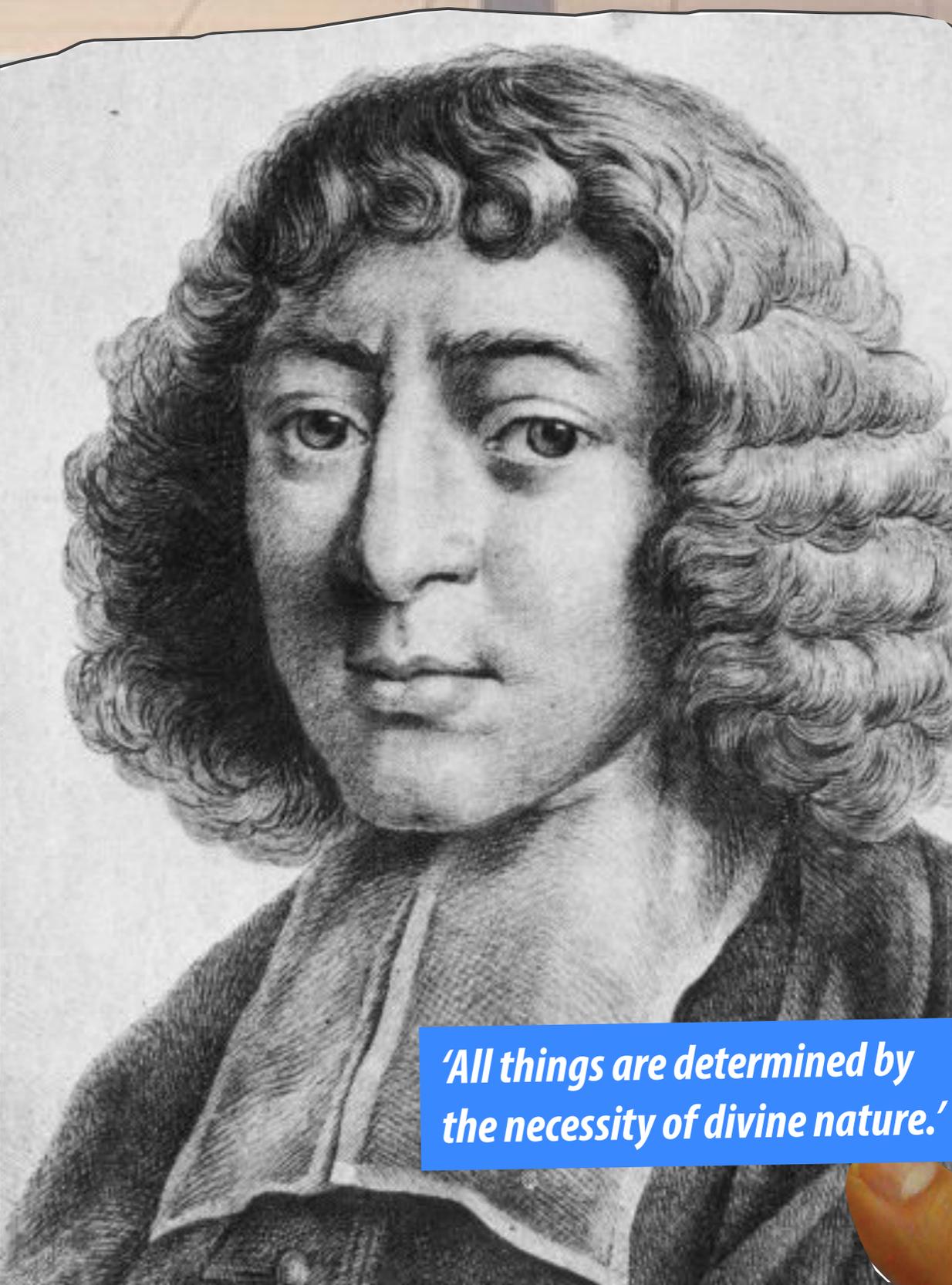
Einstein read philosophy

- * *Sophicles*
- * *Cervantes*
- * *David Hume*
- * *Ernst Mach*
- * *Baruch Spinoza*



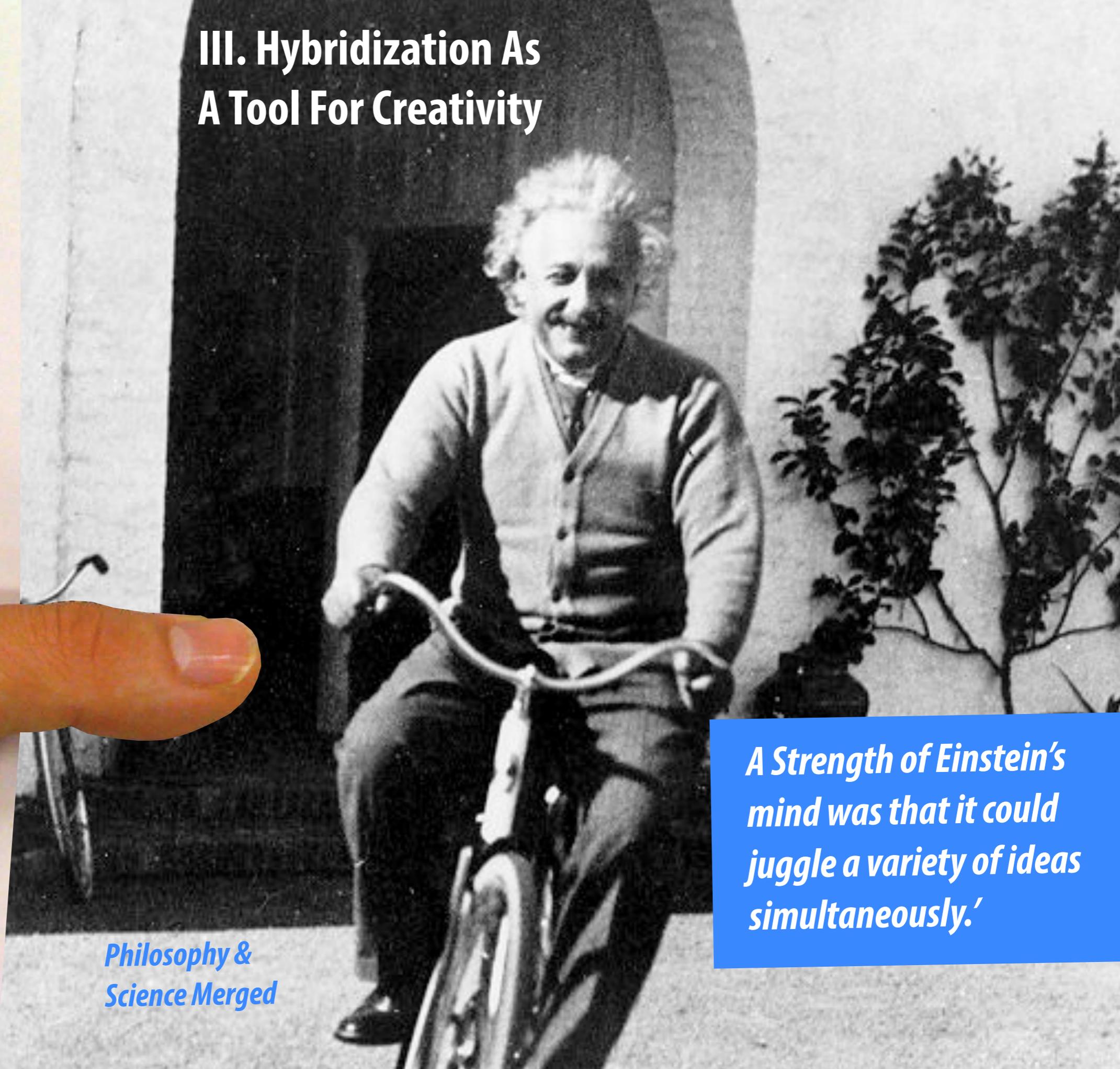


*'incorruptible skepticism
and independent thinking'*



*'All things are determined by
the necessity of divine nature.'*

III. Hybridization As A Tool For Creativity



A Strength of Einstein's mind was that it could juggle a variety of ideas simultaneously.'

*Philosophy &
Science Merged*

**IV. Confidence That
Comes From A Heuristic**



*Einstein created a story
that he believed in.*

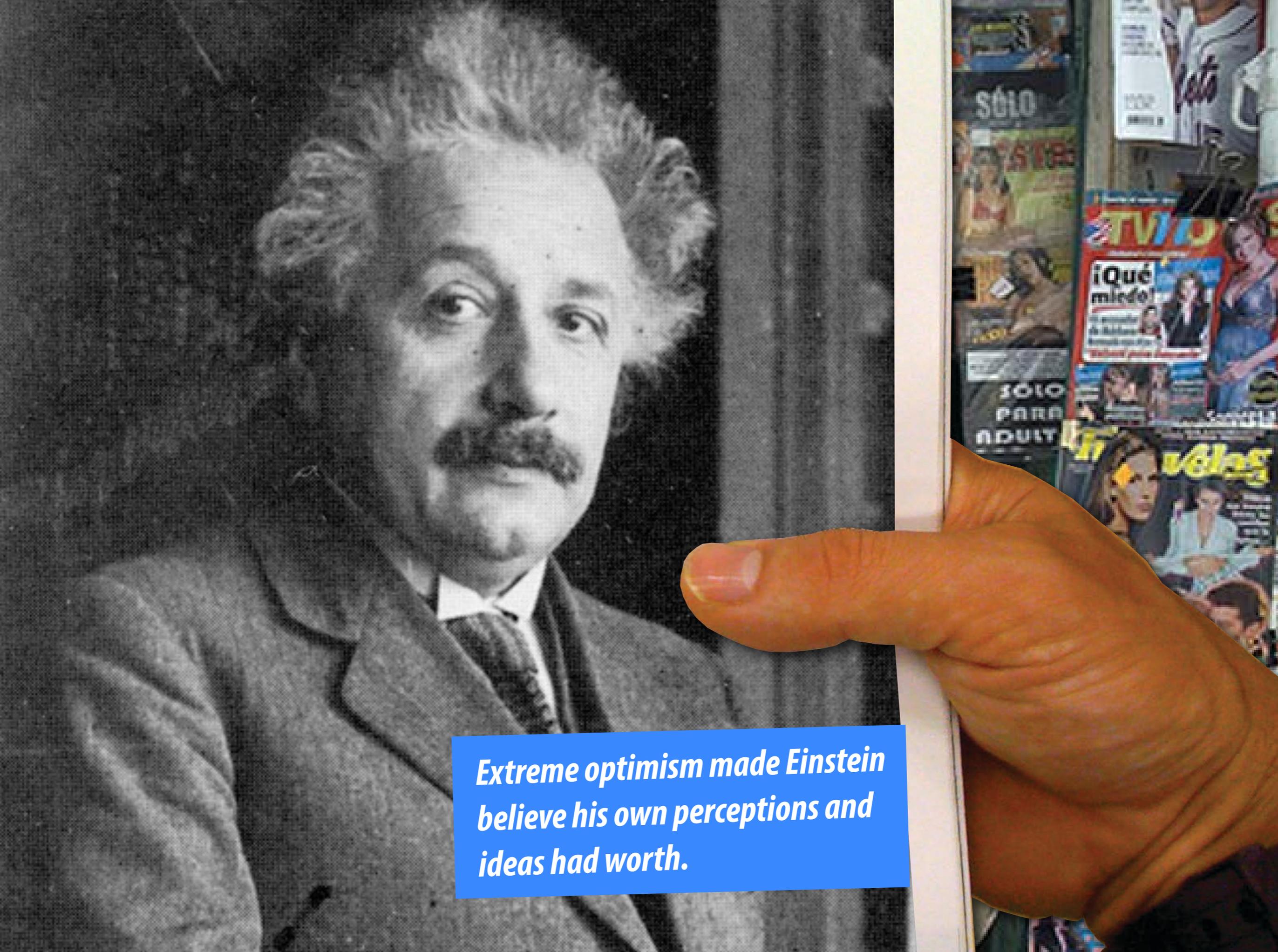




V. Power Of Optimism In Promoting Creativity



Einstein was extremely optimistic.

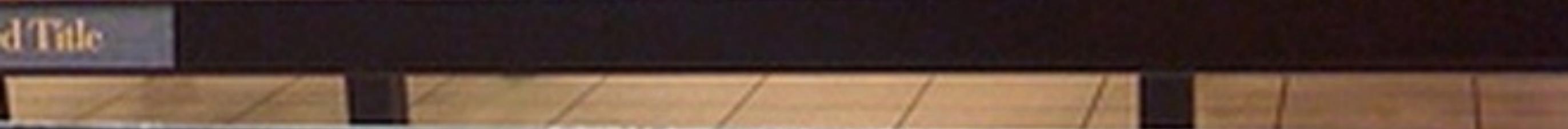
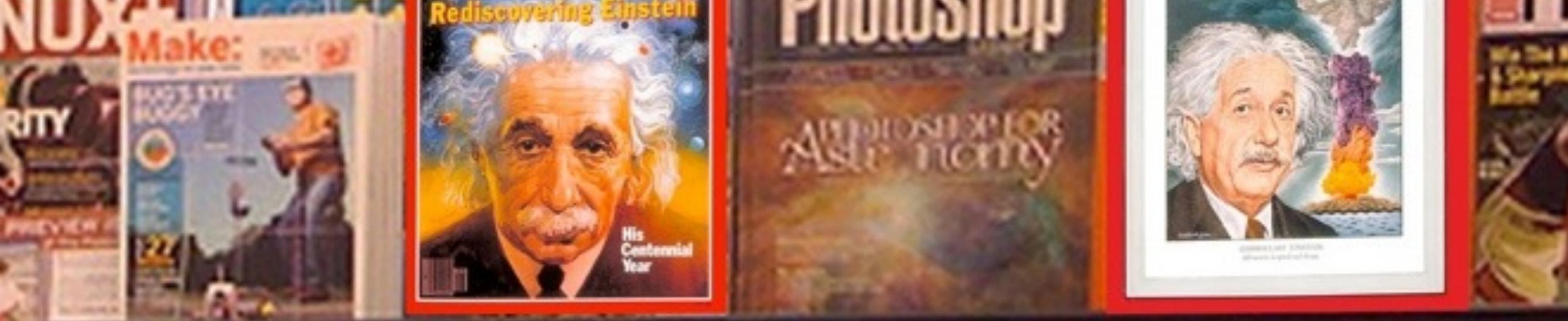


Extreme optimism made Einstein believe his own perceptions and ideas had worth.

People

**FIVE LESSONS ABOUT
CREATIVITY FROM
ALBERT EINSTEIN**

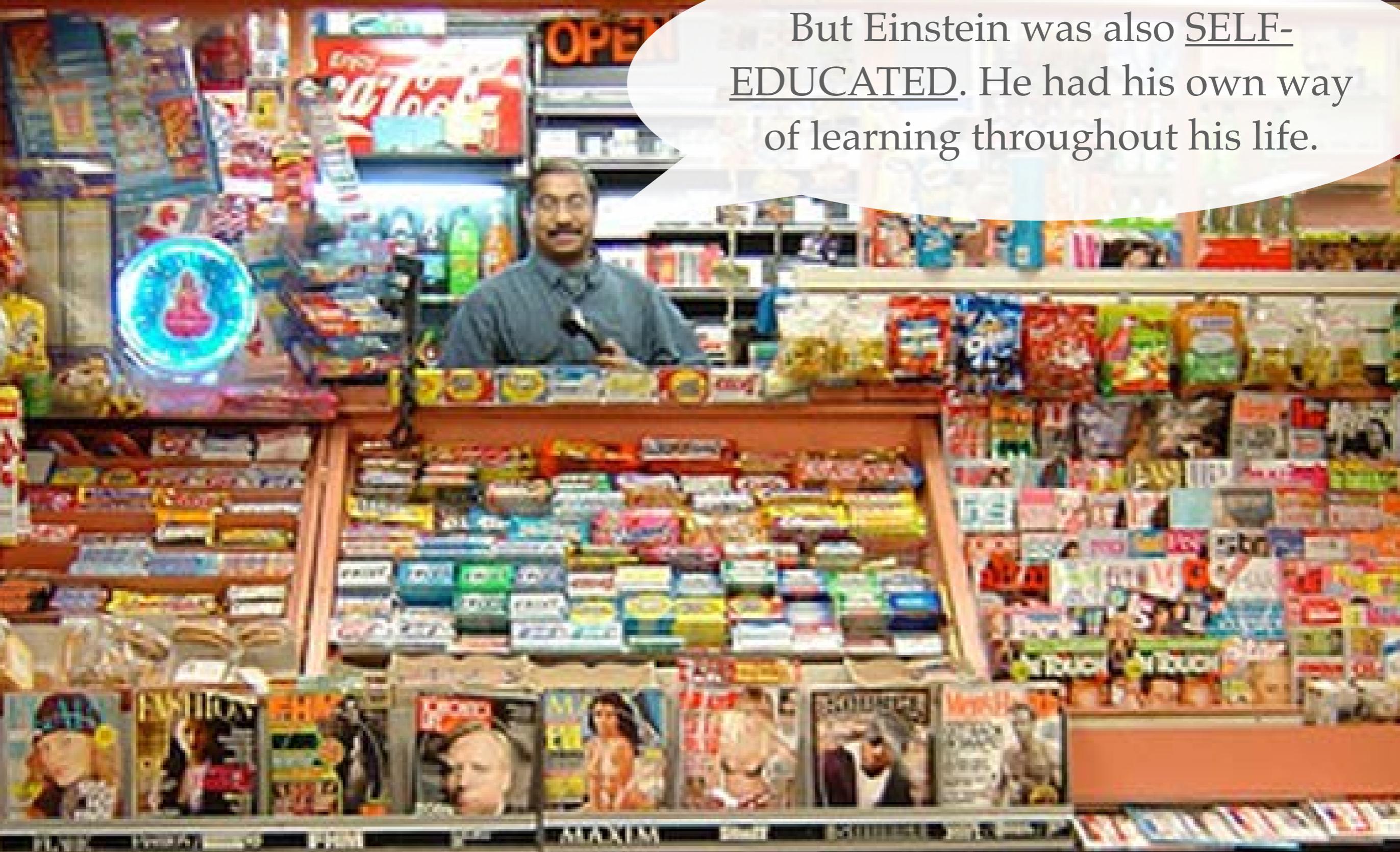




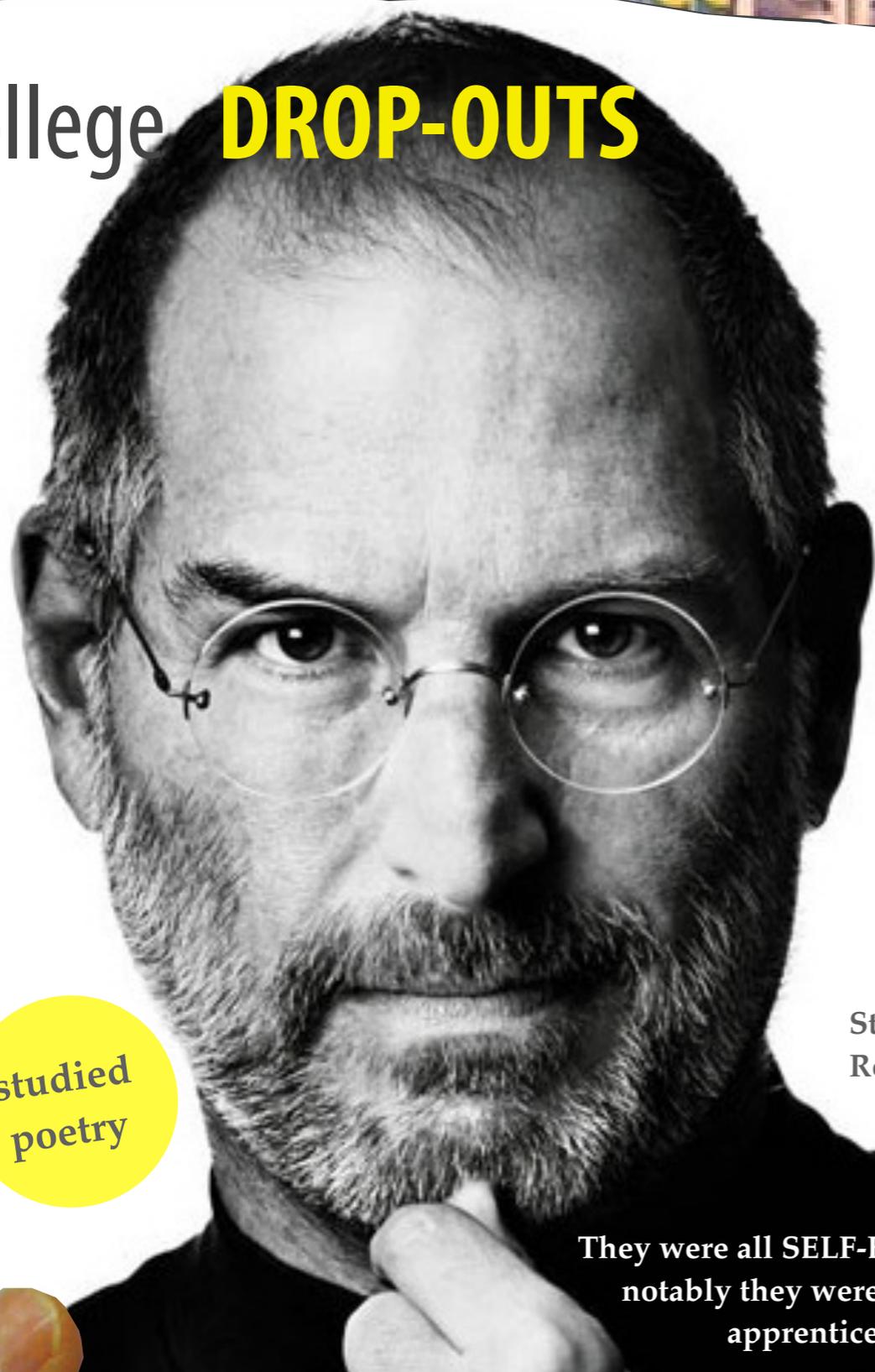
Projecting Theory of Relativity- Albert Einstein

GATEWAY
NEWSTANDS

But Einstein was also SELF-EDUCATED. He had his own way of learning throughout his life.



College **DROP-OUTS**



Steve Jobs-
Reed College

studied
poetry

They were all SELF-EDUCATED,
notably they were not even
apprenticed.



Paul Allen- Washington State



pre-med.

Michael Dell- University
of Texas

‘ Even when in
college they weren’t
necessarily studying
business or
computer science. ’



Bill Gates- Harvard



Huge advances
music in the last
half of the 20th
Century were all
sparked by self-
educated people.



7 WATCHED WOODWORKERS AS A CHILD
16 MADE STUDY TRIPS- KEPT A SKETCHBOOK

11 BECAME A PROFESSIONAL BOXER

17 MADE WOOD MODELS OF SHIPS

ARCHITECT

TADAO ANDO

**PRITZKER PRIZE
WINNER-
THE HIGHEST
HONOR**

**TRACED DRAWINGS OF
ARCHITECT'S WHOSE
WORK HE ADMIRERD**

ISSUE 67-JULY 2007



The Fort Worth Modern

NEWSSTAND

What constitutes a life of **SELF-EDUCATION?**

1. Experiential Life

4. Intensity-Hard Work

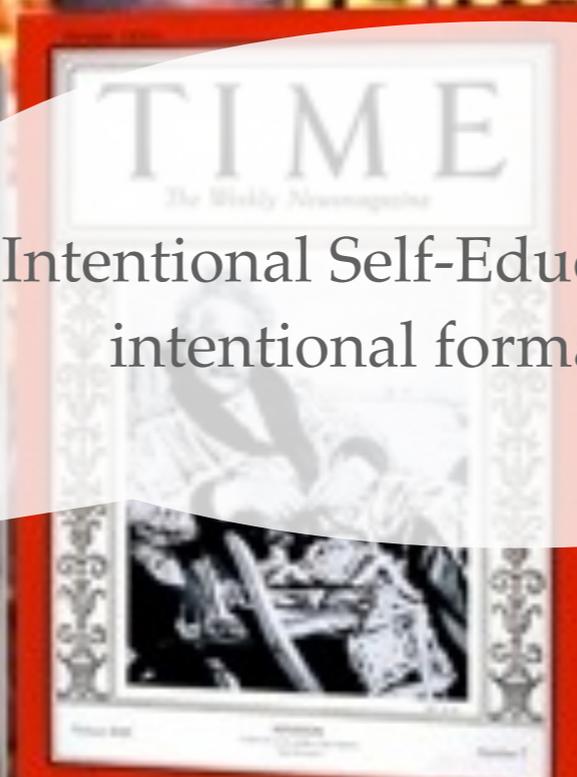
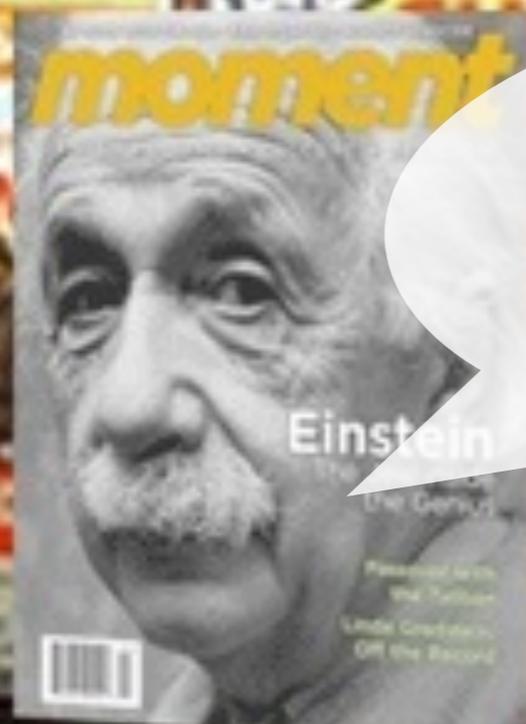
3. Risk Taking
-trial & error

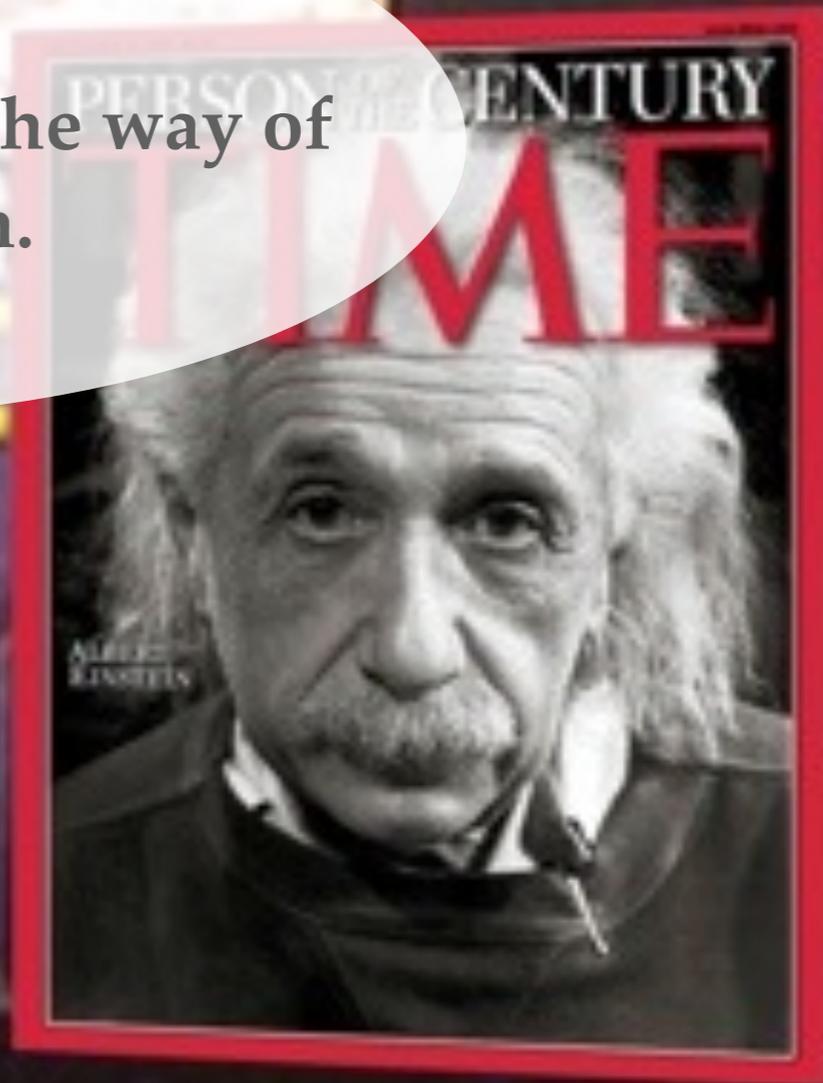
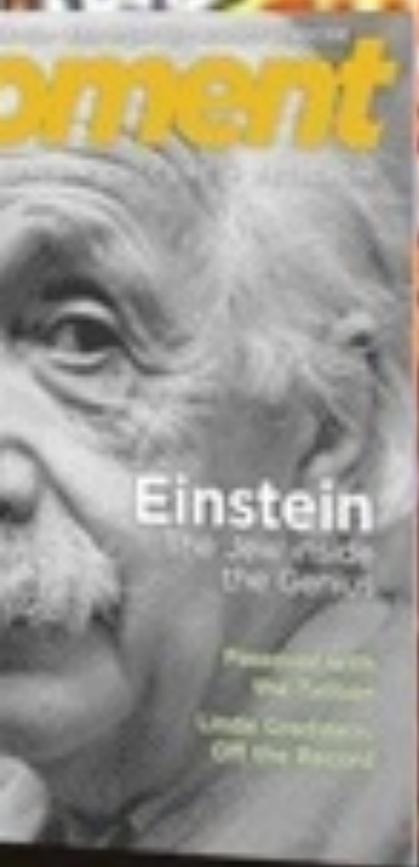
2. *Self Defined
Passions*

Investment in Self-Education is just like investment in formal education.

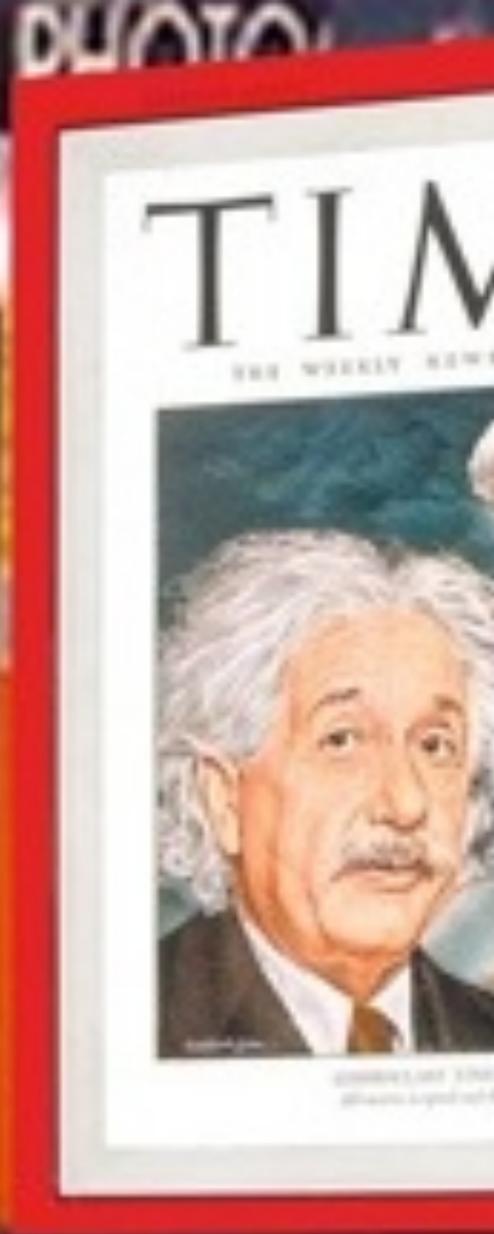
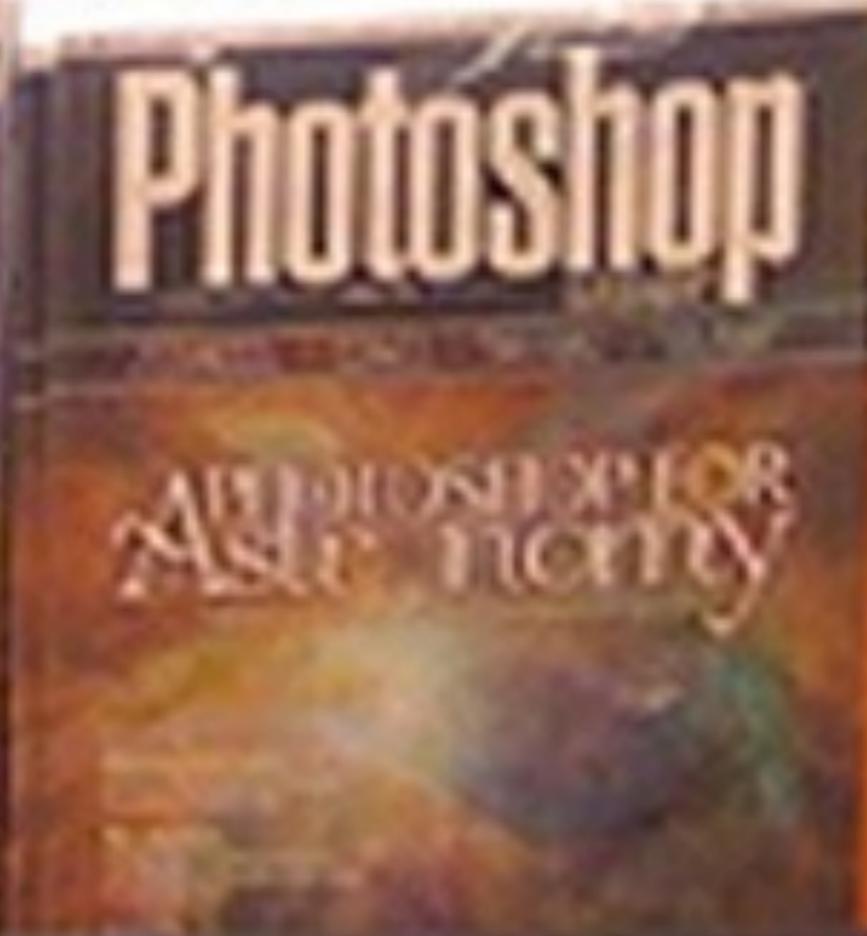


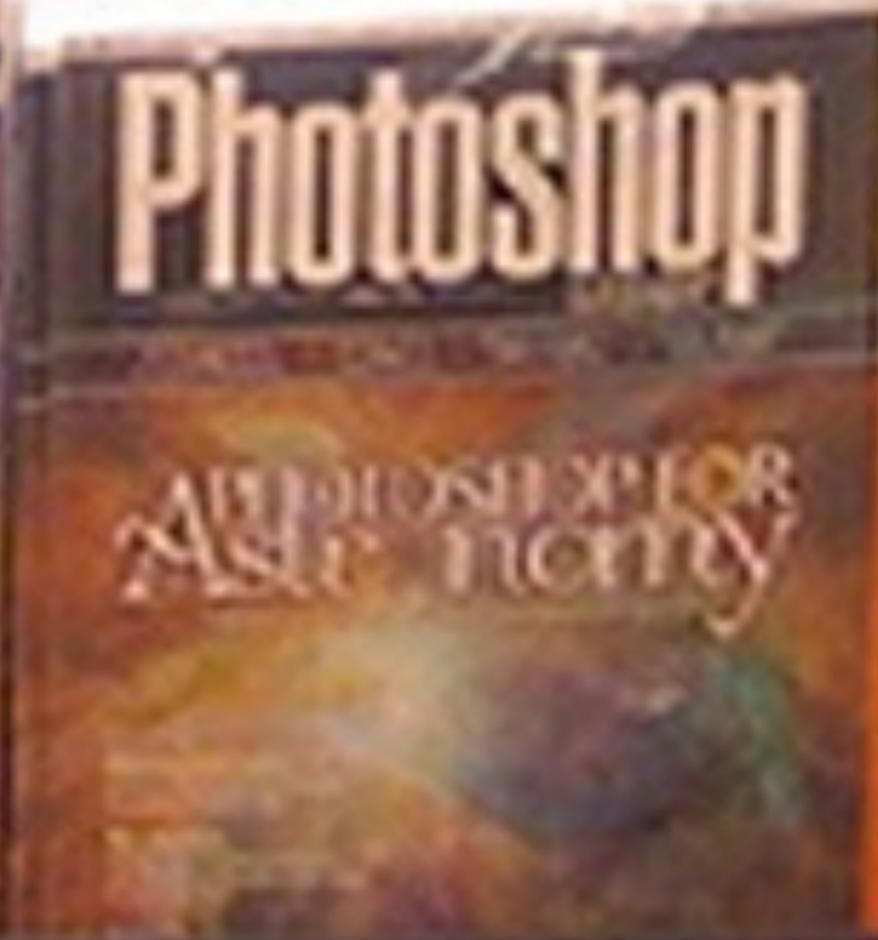
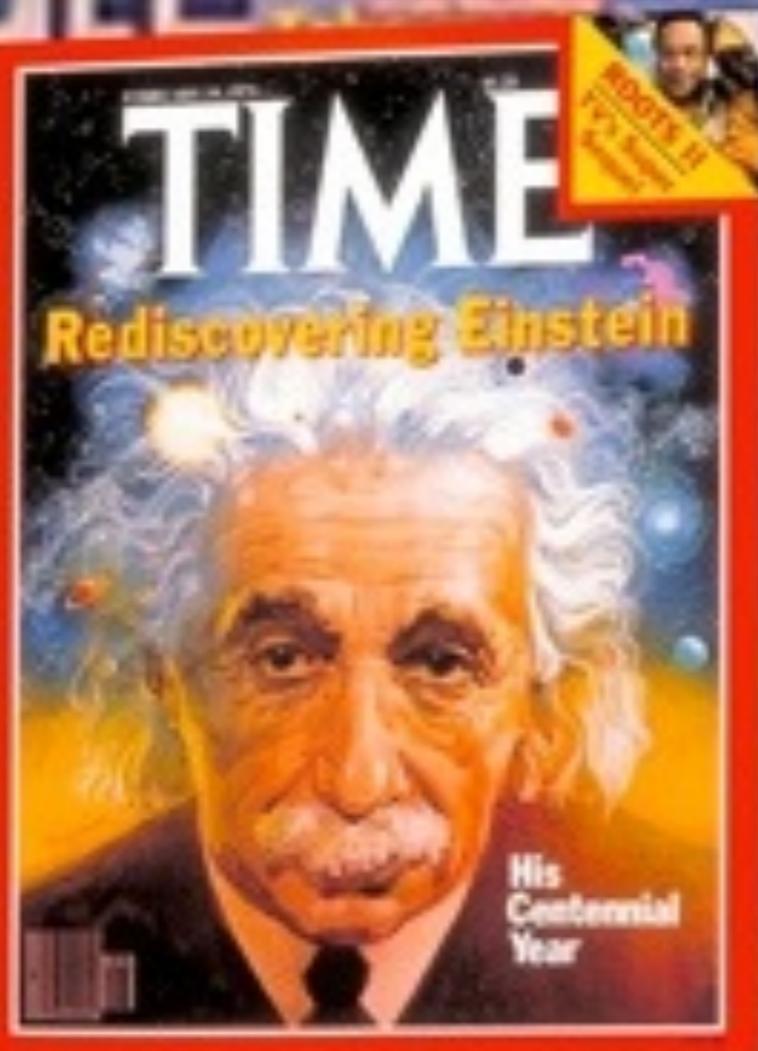
Intentional Self-Education is just like intentional formal education.

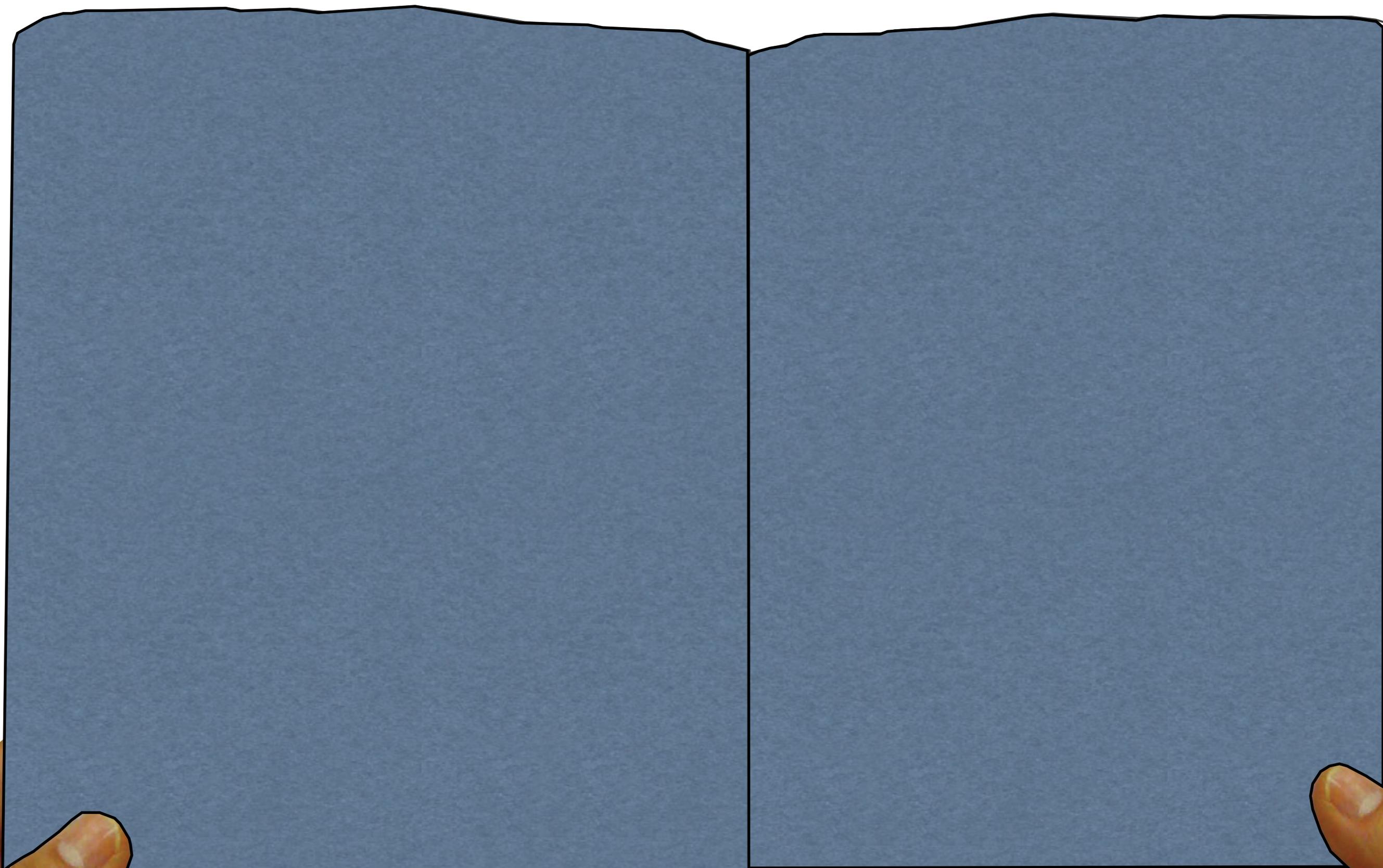


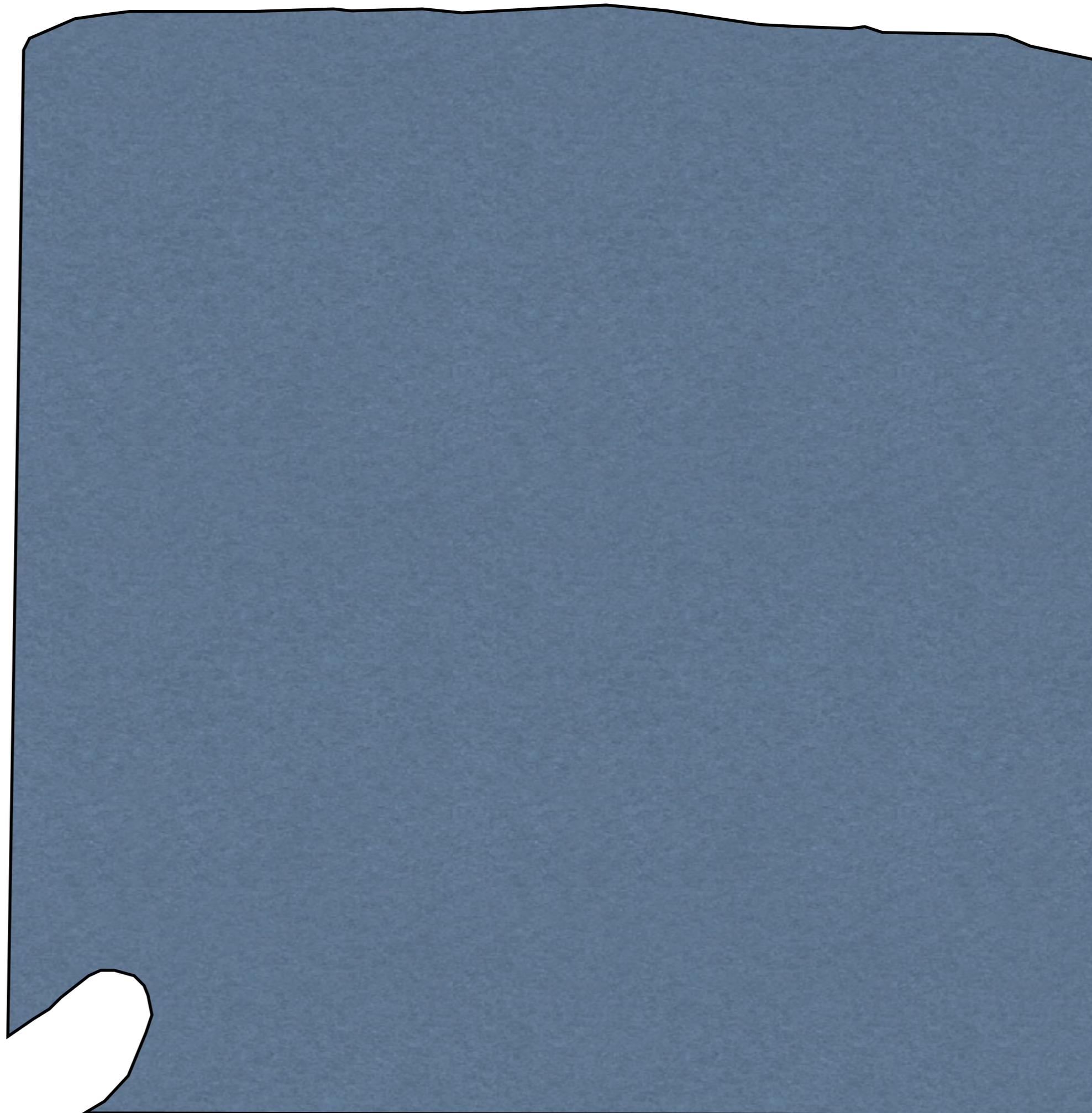


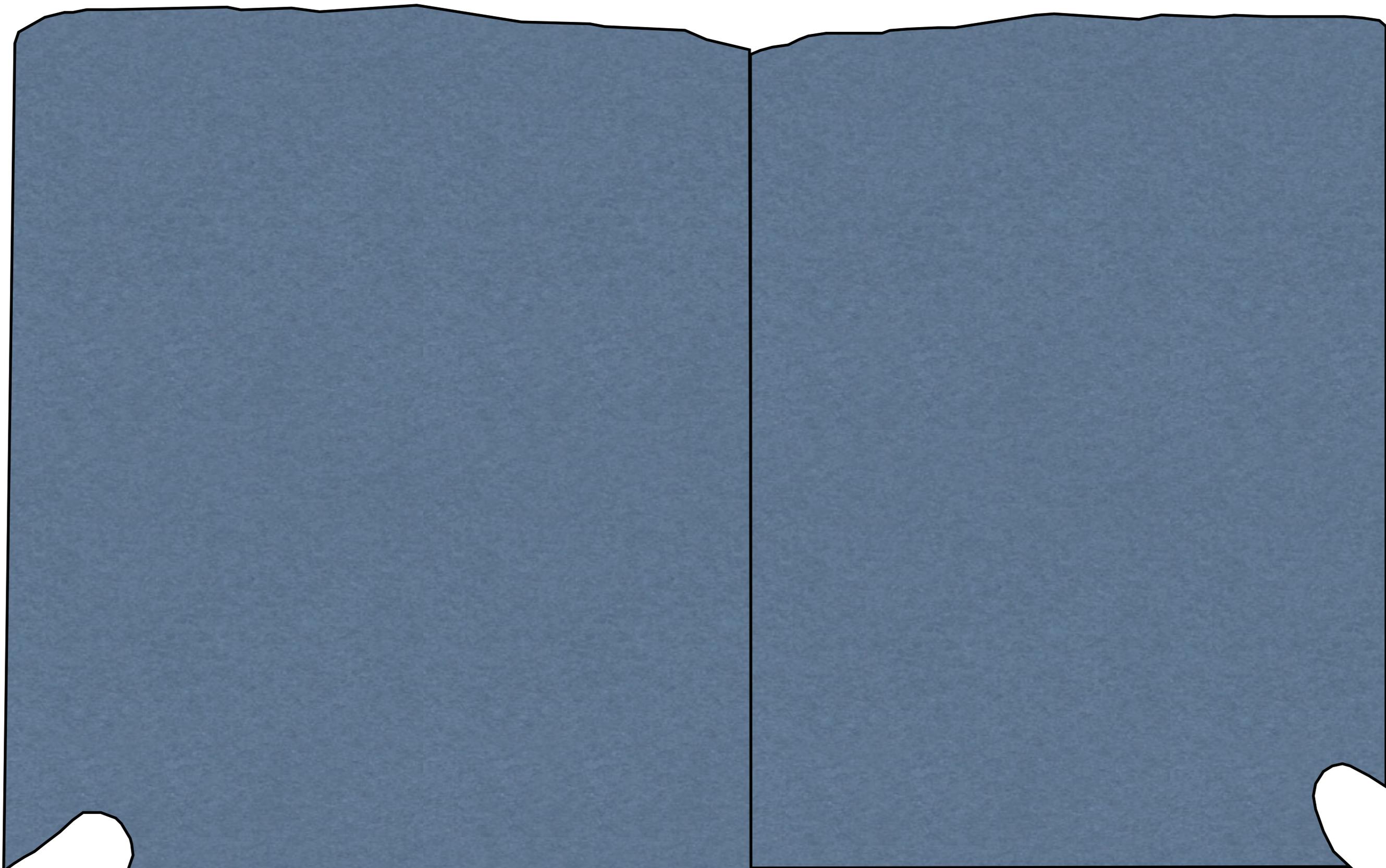
Don't let school get in the way of your education.















CARE
MAXIM
entertainment
GET IT NOW

Various magazine covers displayed in a row.

USA TODAY
Various newspaper and magazine titles.

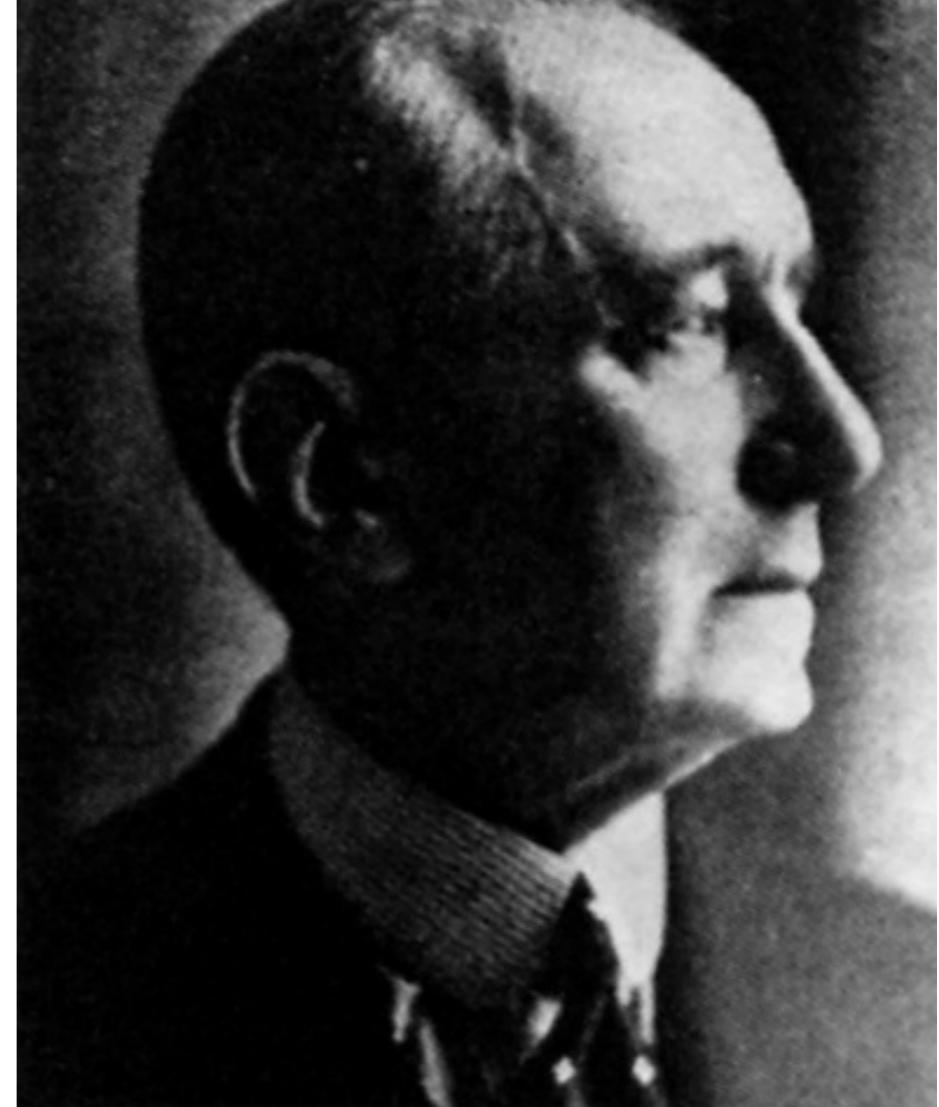
Stacks of newspapers.

THE WALL STREET JOURNAL
DAILY NEWS
LIFE

USA TODAY
USA TODAY

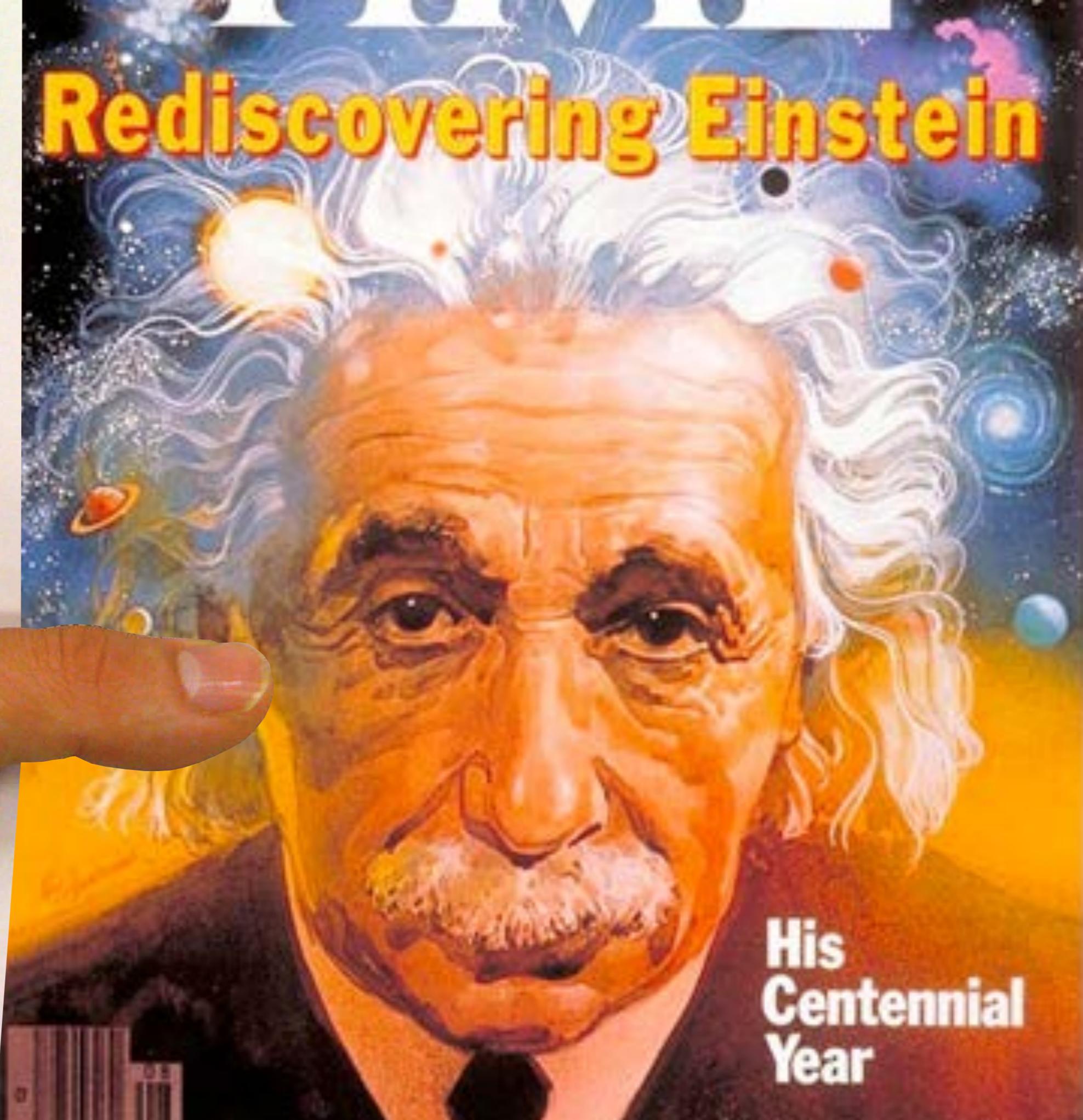
Red box with text.

phers Street
The Bronx



Albert Einstein- had a formal education and w

Guglielmo Marconi was entirely self-educated a



The Economist

SEPTEMBER 6TH-12TH 2008

www.economist.com

TEK: TECHNOLOGY QUARTERLY

Hurricane Palin

Britain's stumbling economy

Ungovernable Thailand

Trade veers off course

Can we re-engineer the planet?

Europe stands up to Russia



Four of the biggest names in the advancement of computer technology, dropped out of college.



Steve Jobs- Reed College, studied poetry.



Bill Gates- Harvard

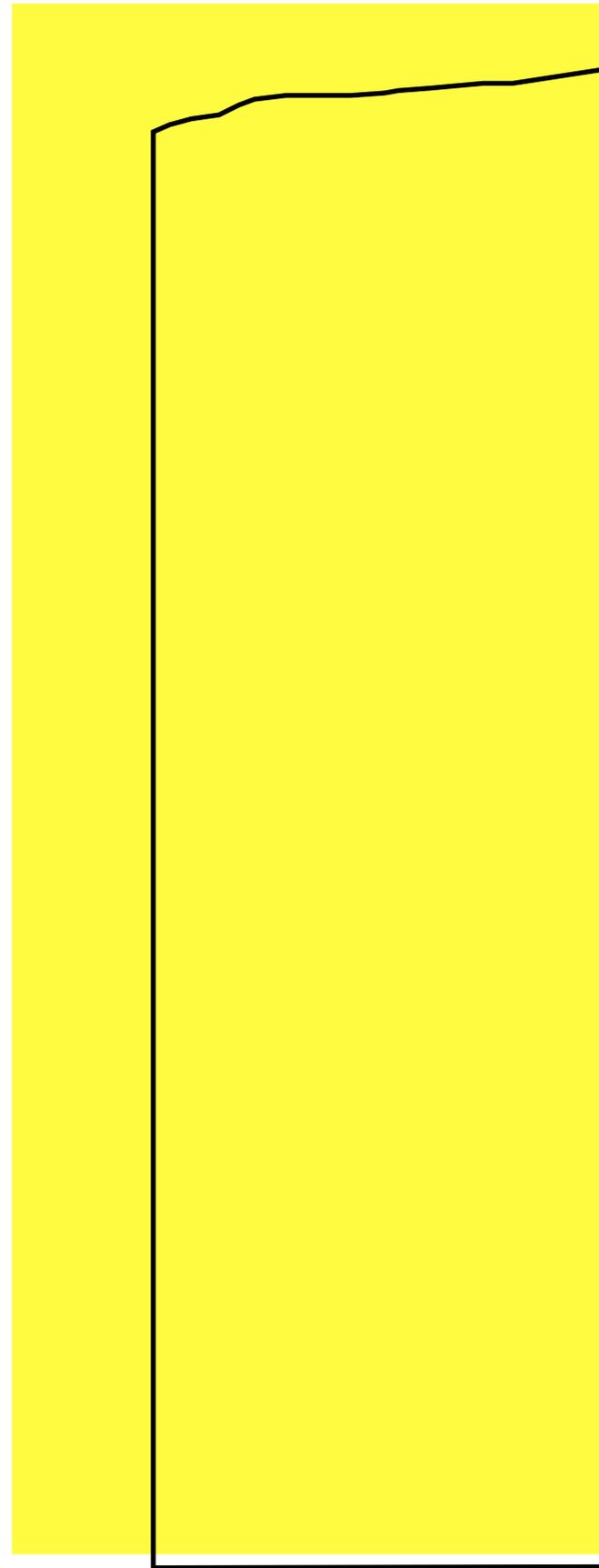


Paul Allen- Washington State

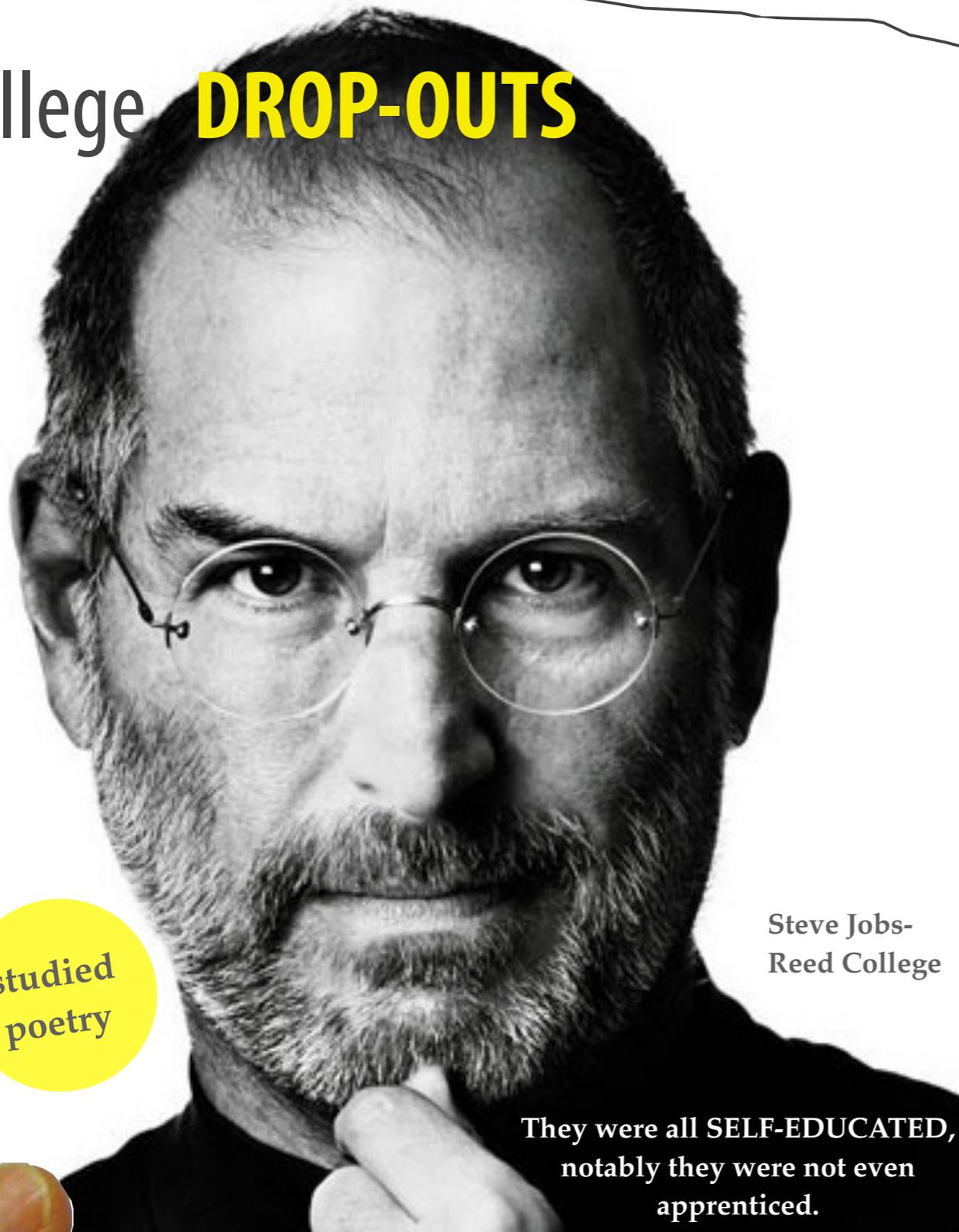


Michael Dell- University of Texas, was pre-med.

Even when in college they



College **DROP-OUTS**



studied poetry

Steve Jobs- Reed College

They were all SELF-EDUCATED, notably they were not even apprenticed.



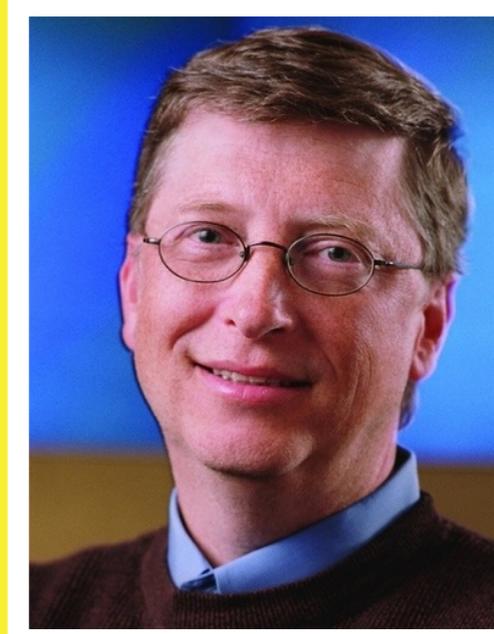
Paul Allen- Washington State



pre-med.

Michael Dell- University of Texas

‘ Even when in college they weren’t necessarily studying business or computer science. ’



Bill Gates- Harvard