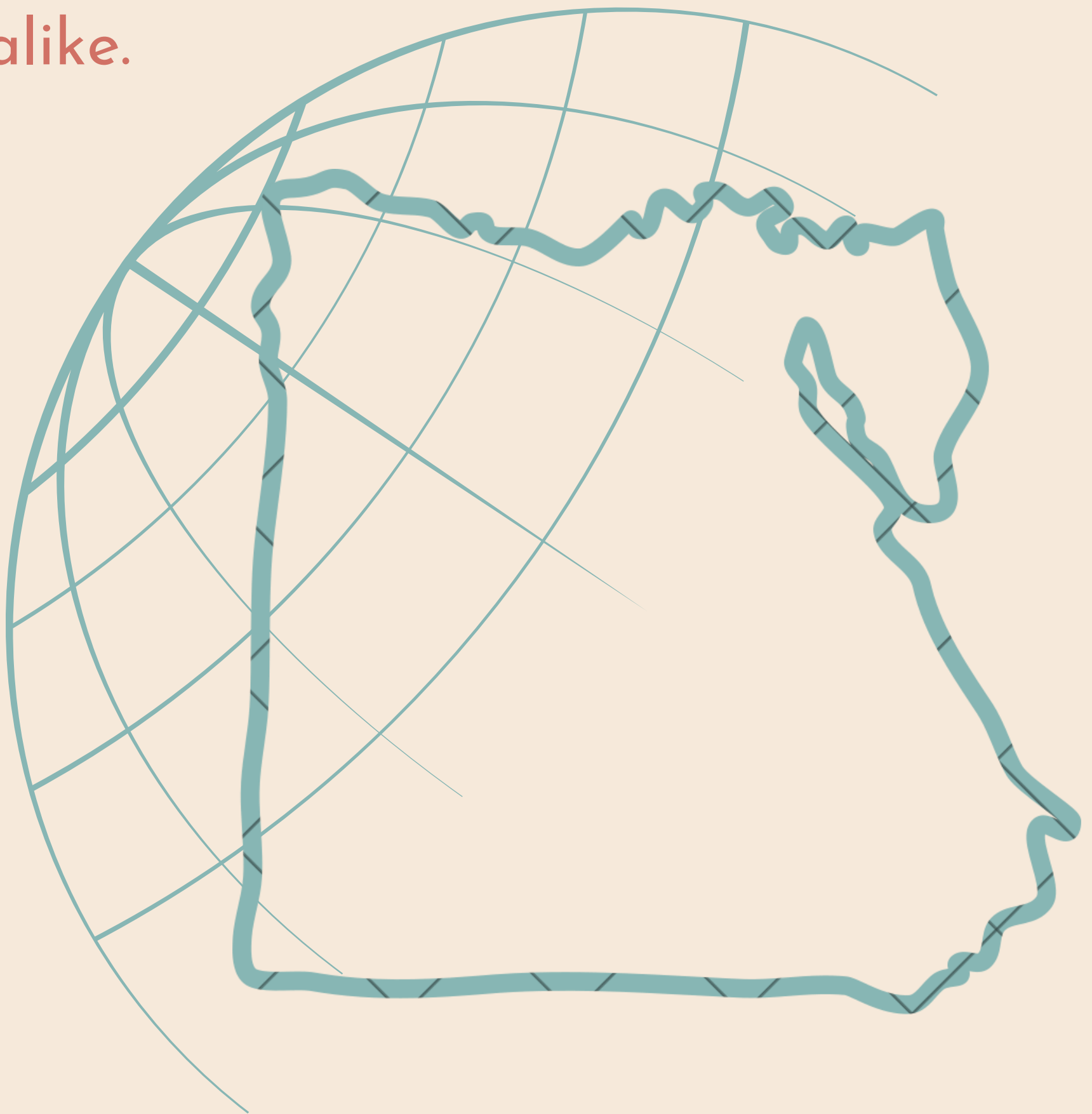THE MEDIUM OF EDUCATION

EVOLUTION OF PAPER

Past + Present + Future

Papyrus to Paper

FROM 4000 B.C.E TO PRESENT DAY

With early parchments, Papyrus, starting in Egypt, this new form of textile swept the globe, transformed into machinery, and unified educators alike.
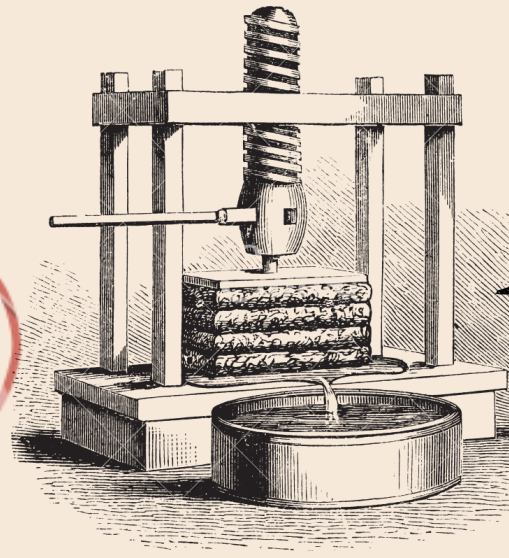
(Papersmith, 2012)

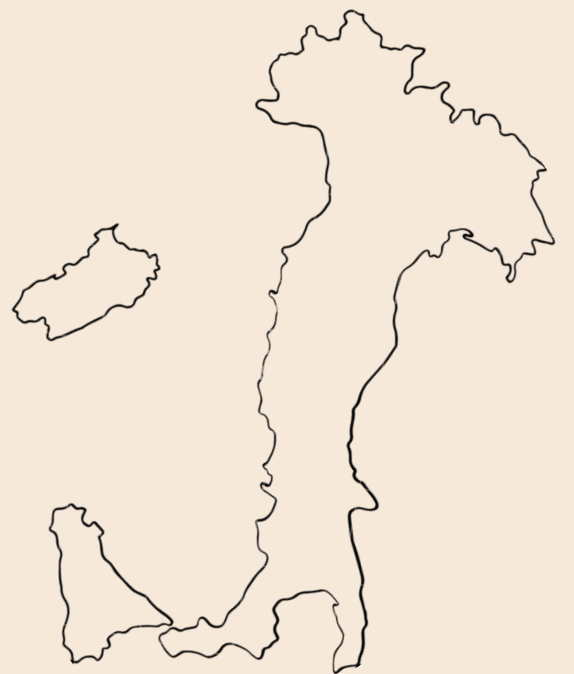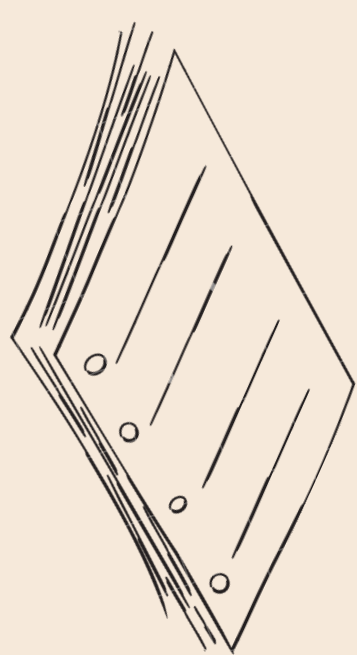# TIMELINE

Of Production

105 CE

1009 CE

1250

1453

1690

1850

S-C SALT GLASS TUBE

ZINC

CARBON

1860

100 lb.

100 lb.

1950

(Papersmith, 2012)
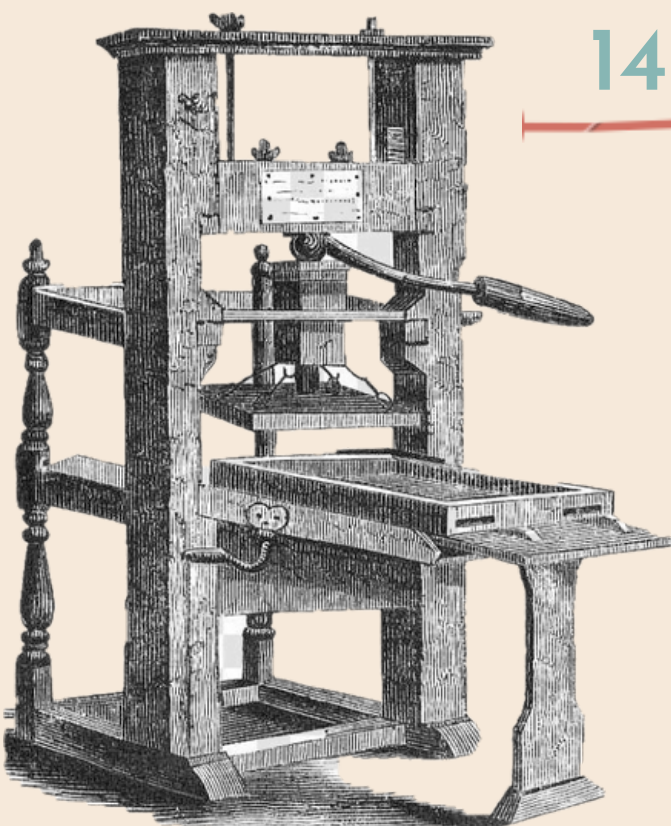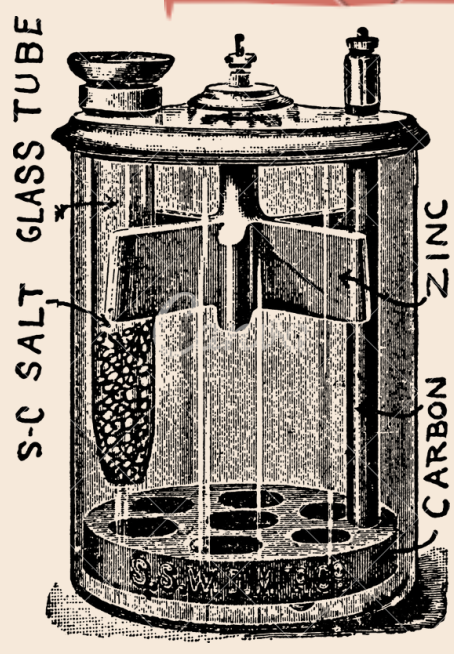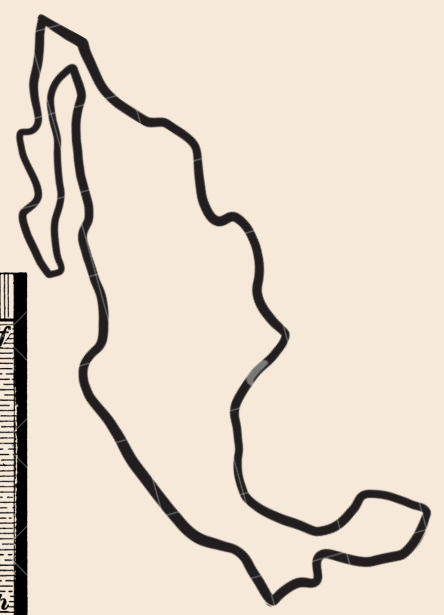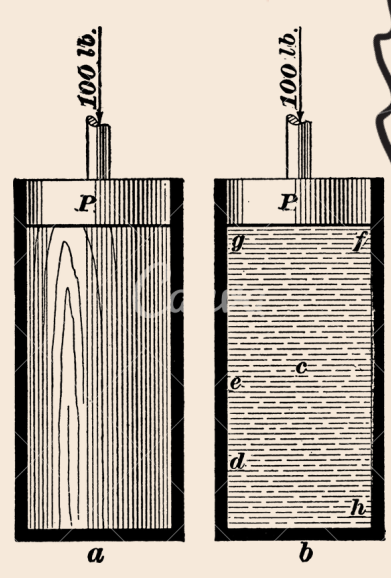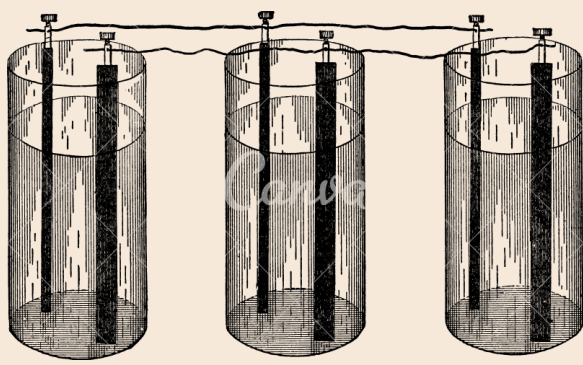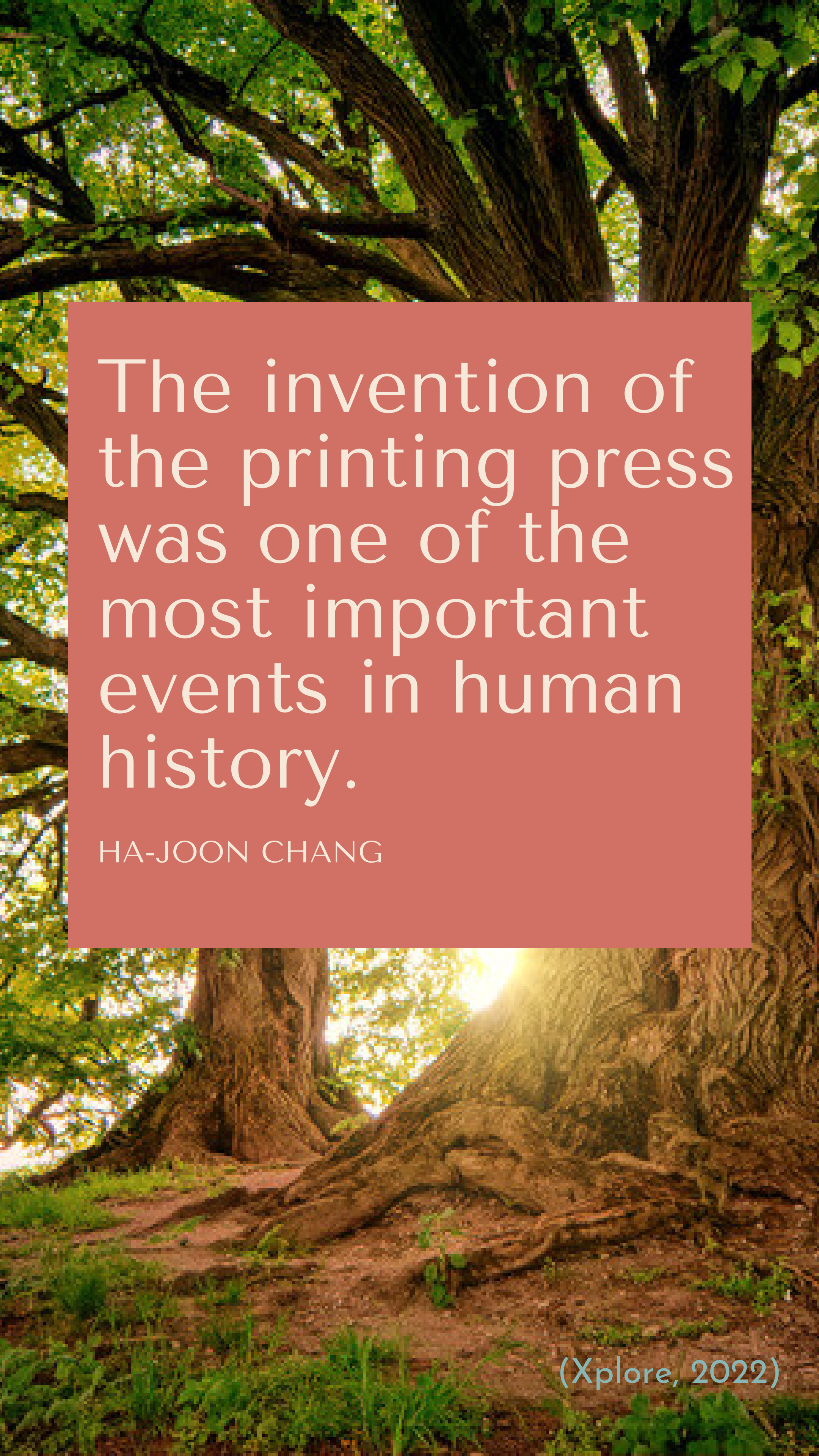
The invention of the printing press was one of the most important events in human history.

HA-JOON CHANG

Johannes Gutenberg

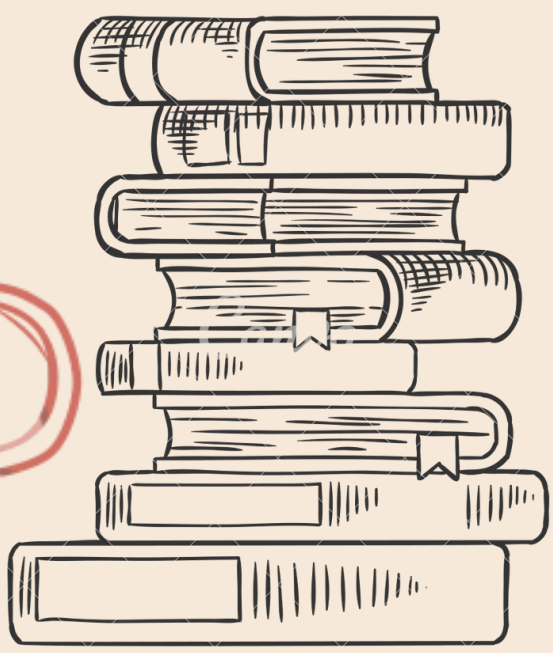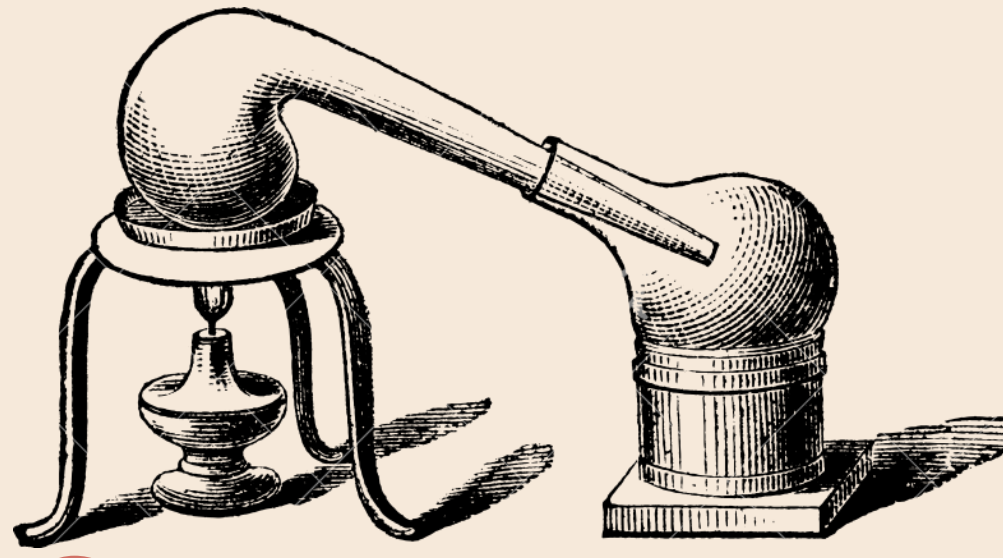A German inventor, Gutenberg has been credited with creating one of the first movable-typing printing presses. Revolutionizing Europe, and subsequently the globe, they were able to create mass production sources such as books. To some Gutenberg's role within this field helped in the development of the upcoming period of growth in Europe such as the Renaissance and Reformation
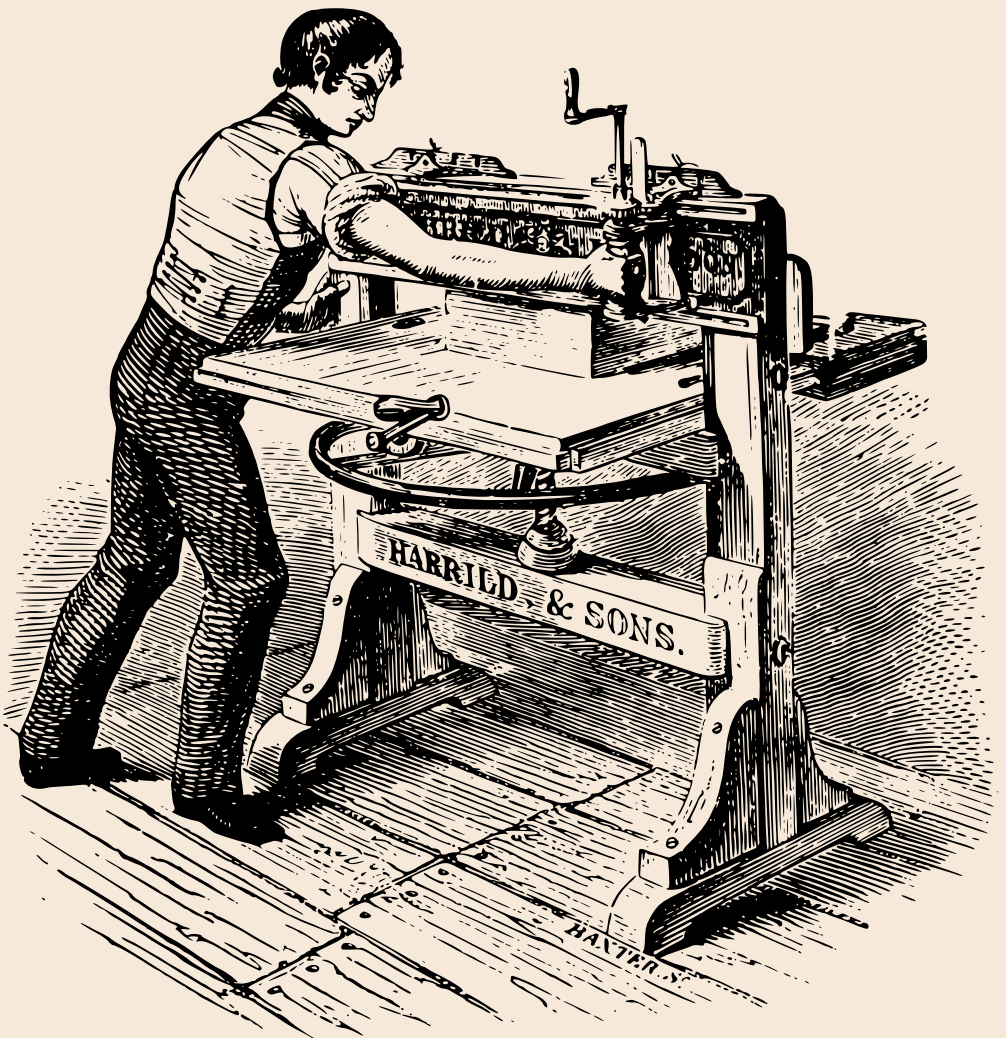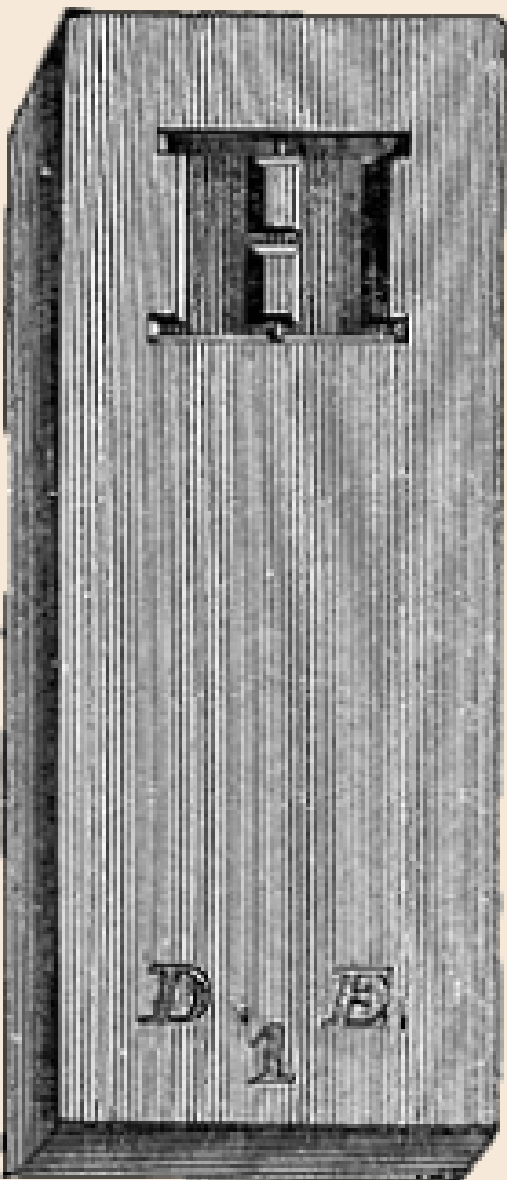
(Gutenberg, 2022)

PAPER, A TOOL OF COLONIZATION

"The conquest of America was in part a victory of paper and print over memory and voice. The victors wrote their way to the New World and inscribed themselves on its maps."

JAMES AXTELL

(Ballantyne, 2011)

Education
+
Paper

- Accessible, uniform tool of communication
- Reproducible tool to share and capture knowledge
- Allowed for long-term clarity and storage of ideas and understandings.

Paper in the Classroom

Common Paper Reliant Subjects

1 Writting

2 Reading

3 Math

4 Art

5 Science

Paper and Learning

FOCUS

EXPRESSION AND COMMUNICATION
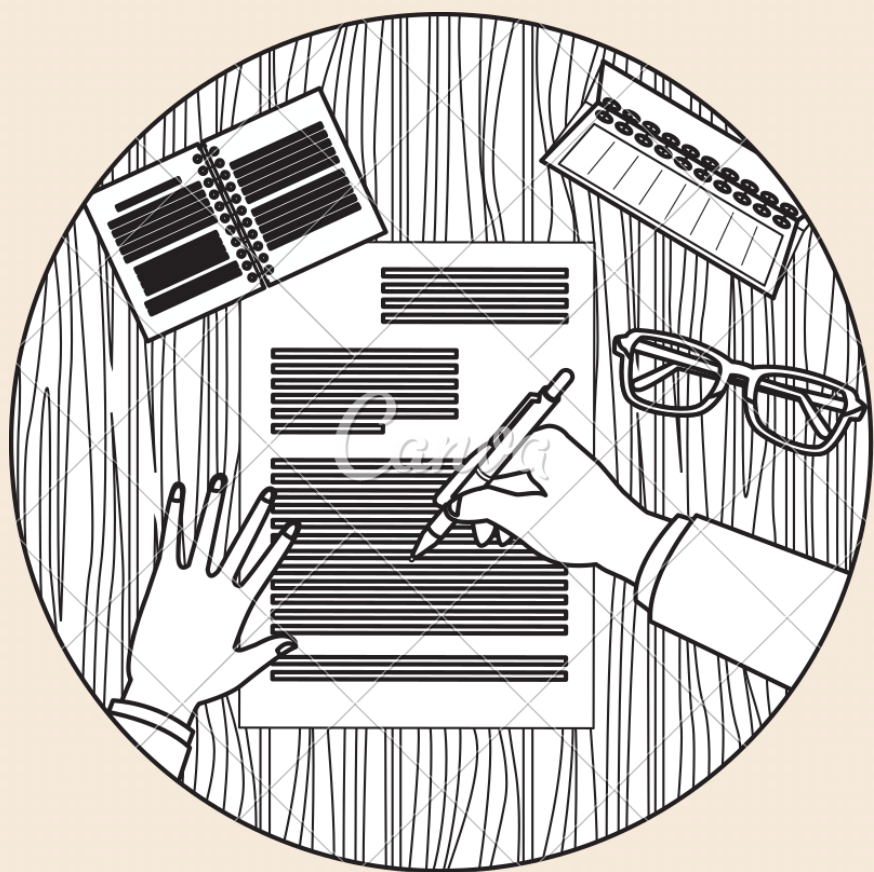
COGNITIVE UNDERSTANDING

(KUMON, 2022)
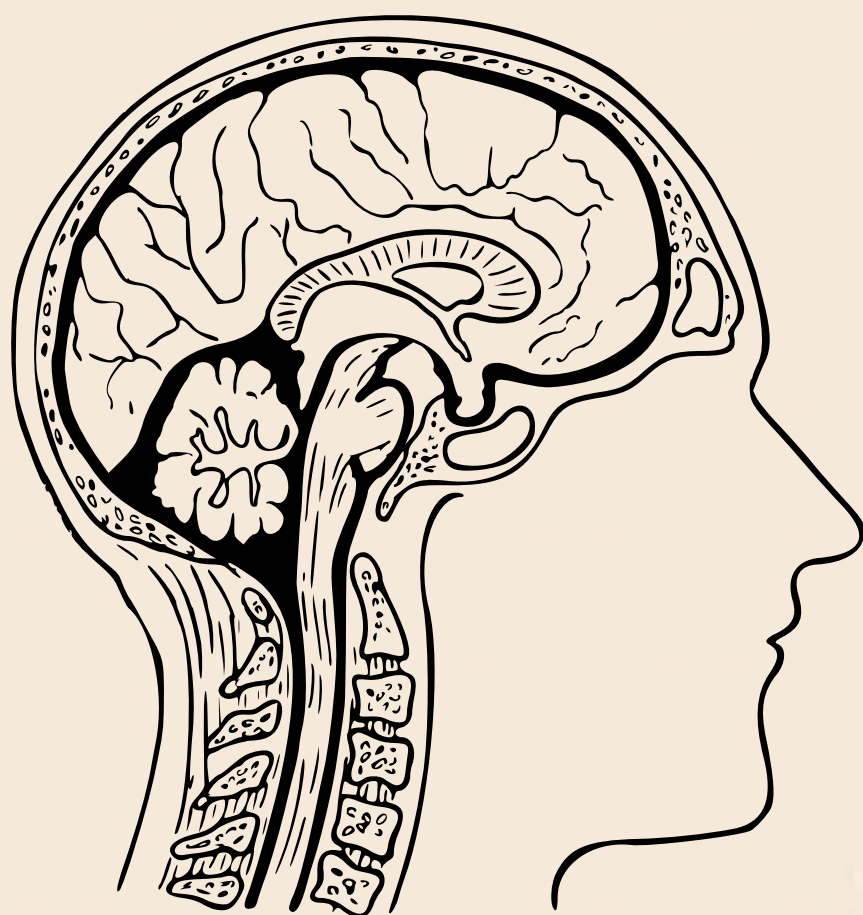
LITERACY RATE 1820

12%

AGED 15+

LITERACY RATE 2016

86%

AGED 15+

(Roser & Ortiz-Ospina, 2016)

Paper as a Media Source

MAIL

After the abundance of paper and the circumnavigation of the globe, communication worldwide provided reminding for those who long apart.

NEWSPAPER

A form of communication between the people and the government, accessible to all.

ADVERTISEMENTS

Slowly the draw of need and want became prevalent, and the people's interest was captured.

BOOKS

Escapes from reality, varying lengths offered repeatable pastimes.

(Nerone, 2015)

FUTURE OF PAPER

Is lumber still the best course of action?

2-2.5 TONNES OF TIMBER
+
30-340 METERS3 OF WATER
=
1 TONNE OF PAPER

Without accounting for power consumption, forest rehabilitation, transport exhaustion, and chemical additives.

Over the next generation of paper, it is forecasted to be predominantly made of:
1. Wood cellulose from designated forests
2. Recycled paper
3. Vegetative by-products

(Cantavalle, 2019)

Rise of Paper Alternatives

E-BOOKS AND READERS

Globally there is a 6% increase in digital readership.

APPS

Educators are embracing new and interactive tools to support learning.

COMPUTER BASED LEARNING
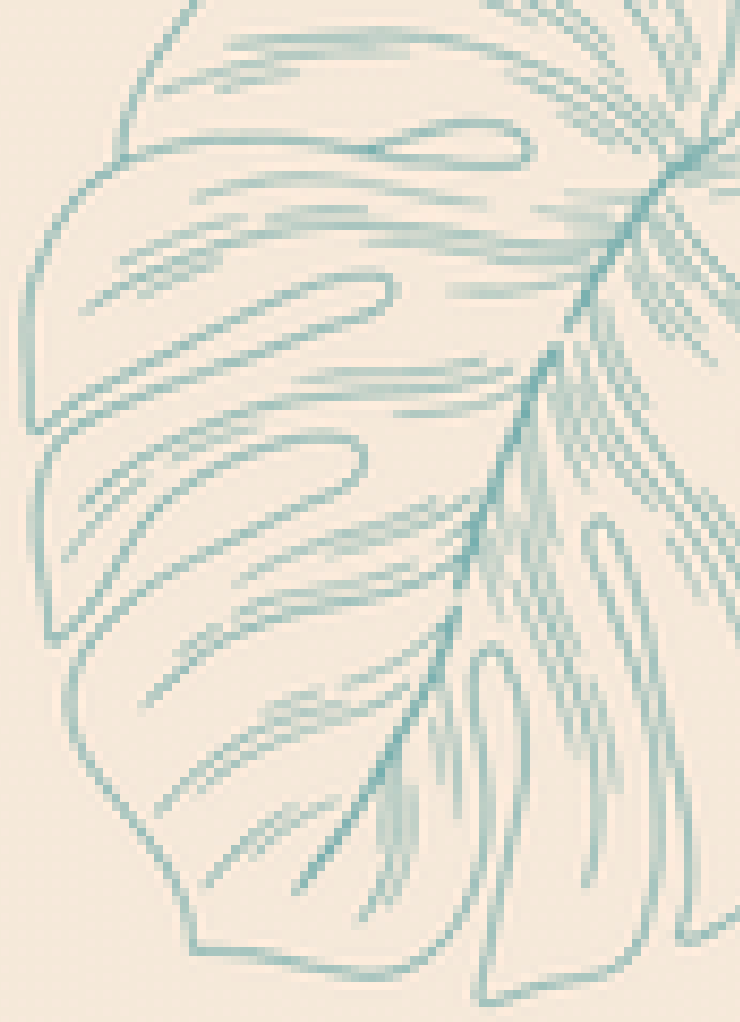
Many learners are cultivating their own knowledge using sites, programs or tools independently or alongside a course.

CLOUD STORAGE

Files, Programs and work, many prefer to keep them online allowing for mass culmination and access virtually anywhere.

(Zhang & Kudva, 2013)

Paper in The World

DOCUMENTS, FILES AND PROJECTS

BOOKS AND ARTICLES

TRANSACTIONS AND COMMUNICATIONS

Refrences

Cantavalle, S. (n.d.). The history of paper: From its origins to the present day: PixartprintingSarah Cantavalle . The Pixartprinting blog. Retrieved August 11, 2022, from https://www.pixartprinting.co.uk/blog/history-paper/

Ballantyne, T. (2011). Paper, pen, and print: The transformation of the kai tahu knowledge order. Comparative Studies in Society and History, 53(2), 232-260. doi:https://doi.org/10.1017/S0010417511000041

Nerone, J. (2015). The history of paper and public space. Media History, 21(1), 1-7. https://doi.org/10.1080/13688804.2014.950950

Paper-based learning: The importance of paper to students - kumon. Kumon. (n.d.). Retrieved August 12, 2022, from https://www.kumon.com/resources/why-paper-based-learning-will-always-be-important/

Papersmith. (2012, September 30). Timeline. Papersmith & Son. Retrieved August 11, 2022, from https://www.papersmith.co.za/all-about-paper/paper/timeline/

Refrences

Roser, M., & Ortiz-Ospina, E. (2016, August 13). Literacy. Our World in Data. Retrieved August 11, 2022, from https://ourworldindata.org/literacy#global-literacy-today

Wikimedia Foundation. (2022, July 22). Johannes Gutenberg. Wikipedia. Retrieved August 11, 2022, from https://en.wikipedia.org/wiki/Johannes_Gutenberg

Xplore. (n.d.). Ha-Joon Chang quotes. BrainyQuote. Retrieved August 11, 2022, from https://www.brainyquote.com/quotes/hajoon_chang_528292?src=t_printing_press

Zhang, Y., & Kudva, S. (2013). Ebooks vs. print books: Readers' choices and preferences across contexts. American Society for Information Science and Technology. Meeting. Proceedings of the . ASIST Annual Meeting, 50(1), 1-4. https://doi.org/10.1002/meet.14505001106