

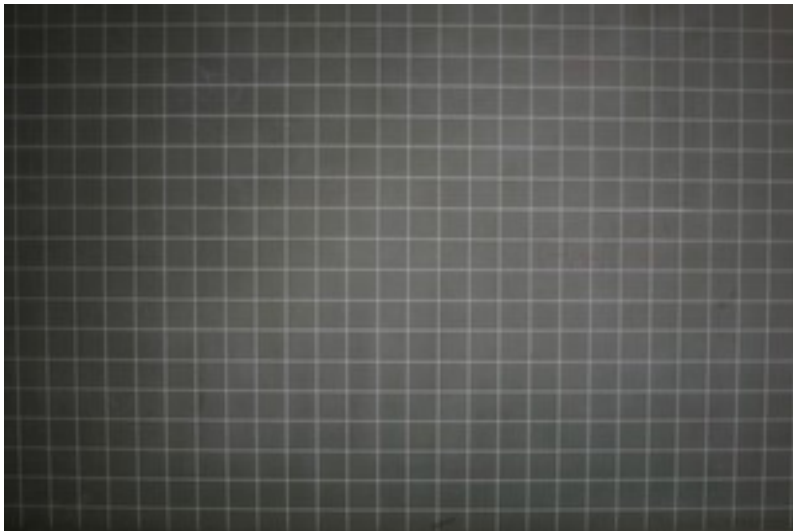
Pensieri Computazionali

Renzo Davoli

ALMA MATER STUDIORUM
Università di Bologna



?



?



Public Speaking

Chapter 1 – Public Dialogue







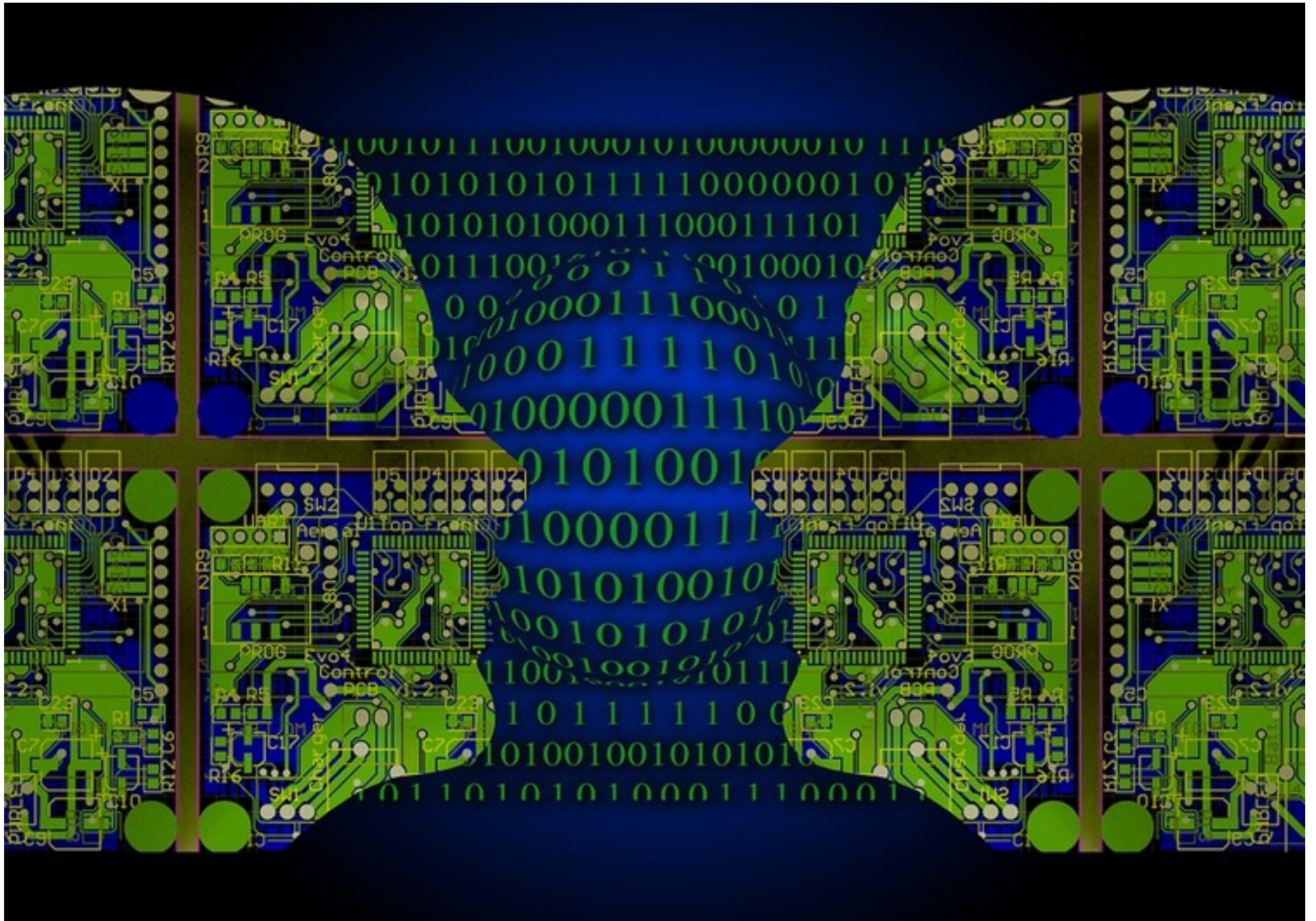


**IL PIÙ GRANDE SPETTACOLO
DOPO IL BIG BANG...**

SIAMO NOI











Dicksons
homehardware

DICKSONS HOME HARDWARE

CAMPING SHOP
ENTRANCE



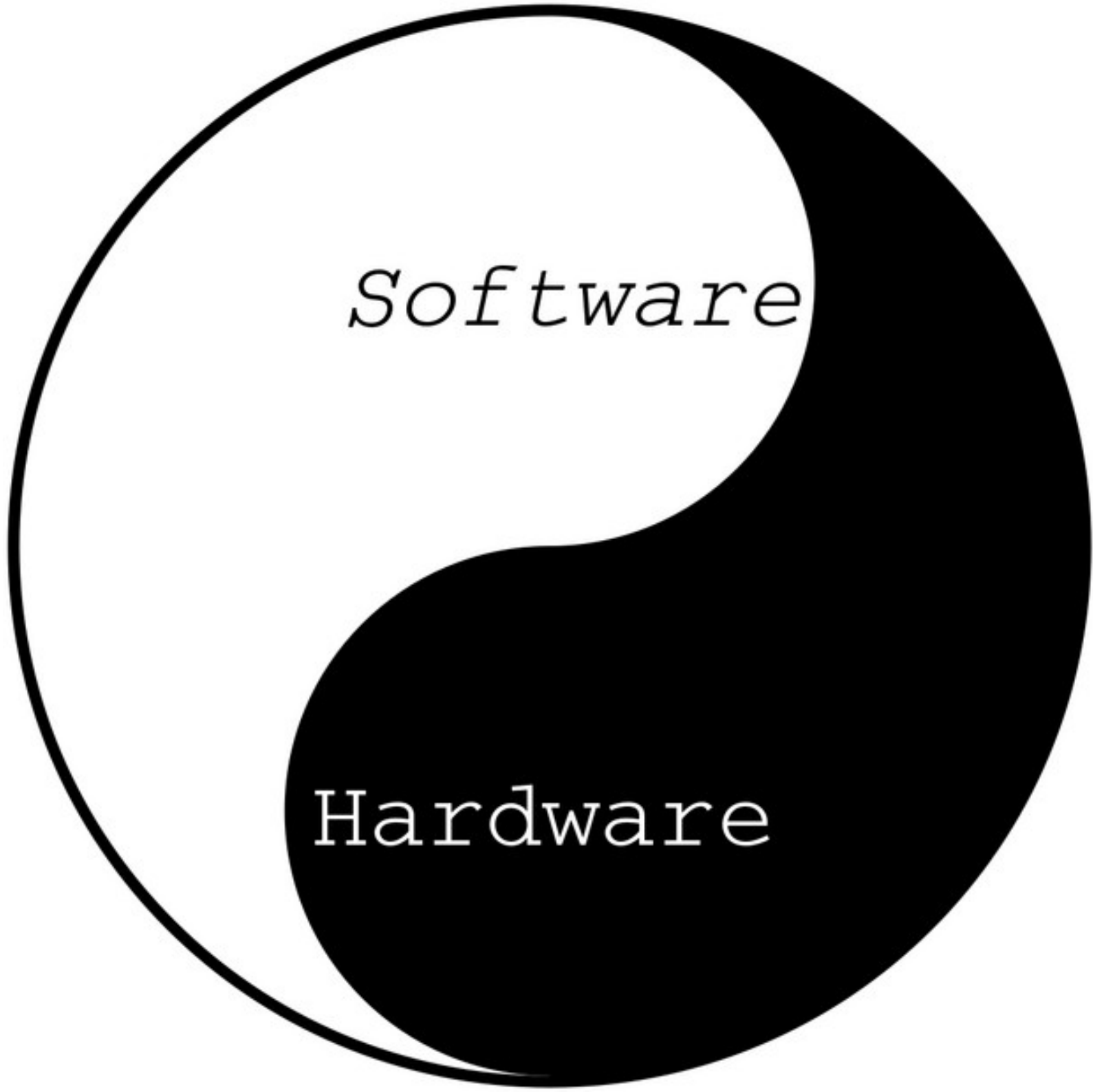
St Breock







Ceci n'est pas une pipe.



Software

Hardware





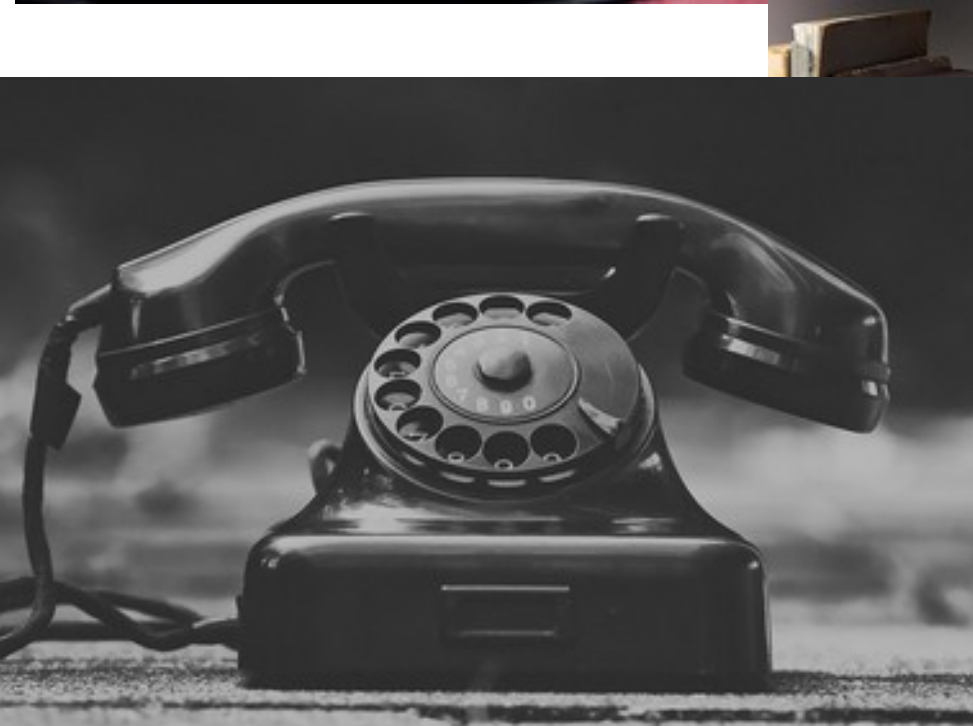


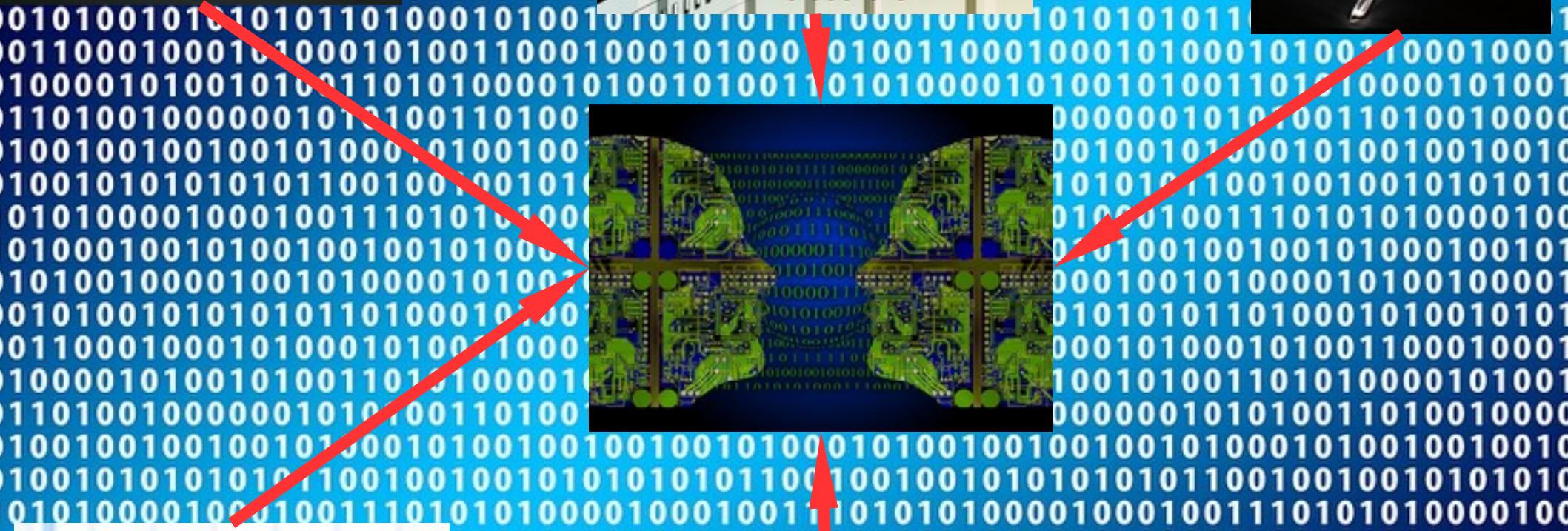


(CC0 pixabay)







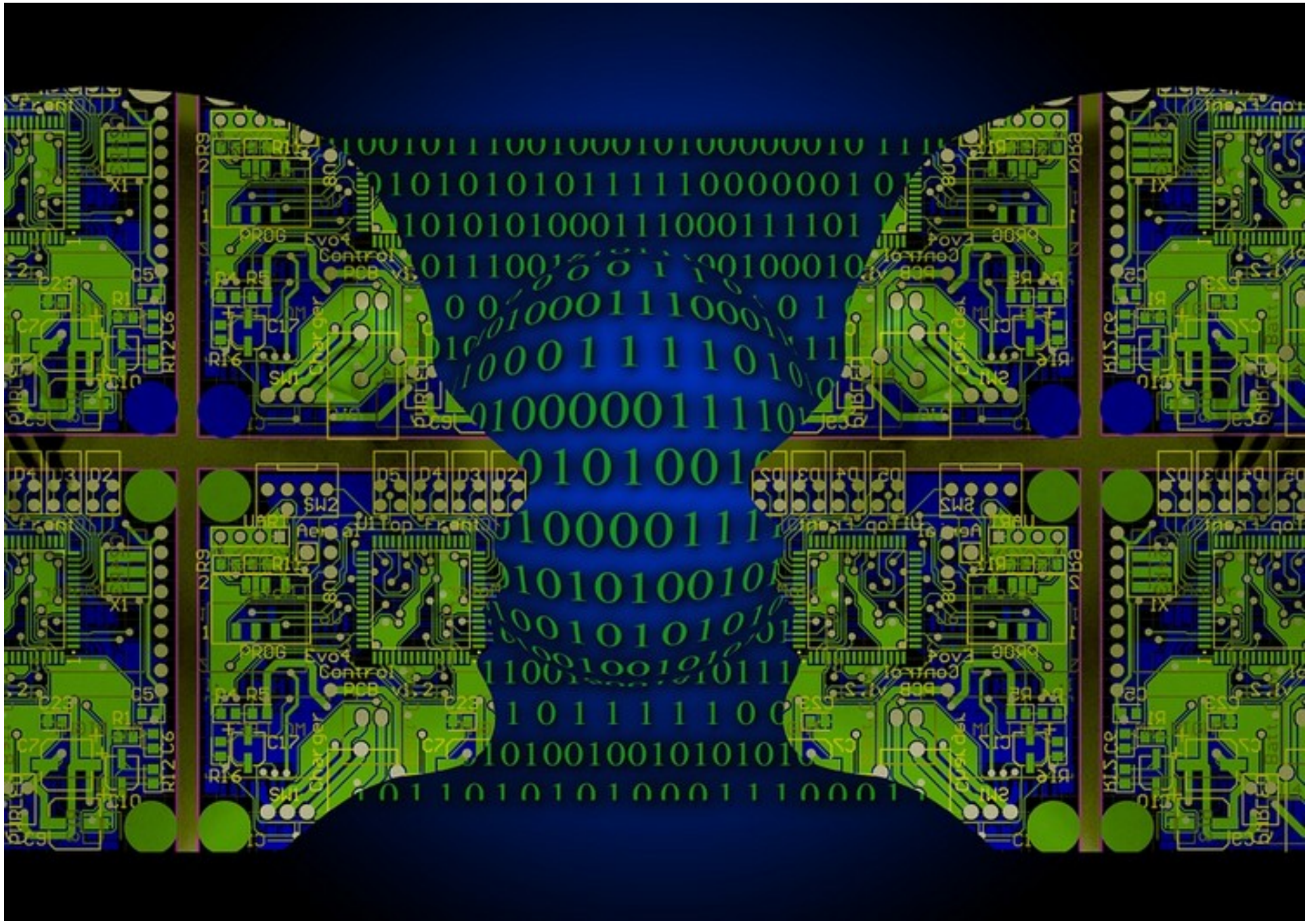


```
17 string sinput;
18 int iLength, iN;
19 double dbfTemp;
20 bool again = true;
21
22 while (again) {
23     iN = -1;
24     again = false;
25     getline(cin, sinput);
26     stringstream(sinput) >> dbfTemp;
27     length = sinput.length();
28     if (length < 4) {
29         again = true;
30         continue;
31     } else if (sinput[length - 3] != ".") {
32         again = true;
33         continue;
34     } while (++iN < length) {
35         if (isdigit(sinput[iN])) {
36             continue;
37         } else if (iN == (length - 3)) {
38             continue;
39         }
40     }
41 }
```


πάντα
πνεύμα

2.0





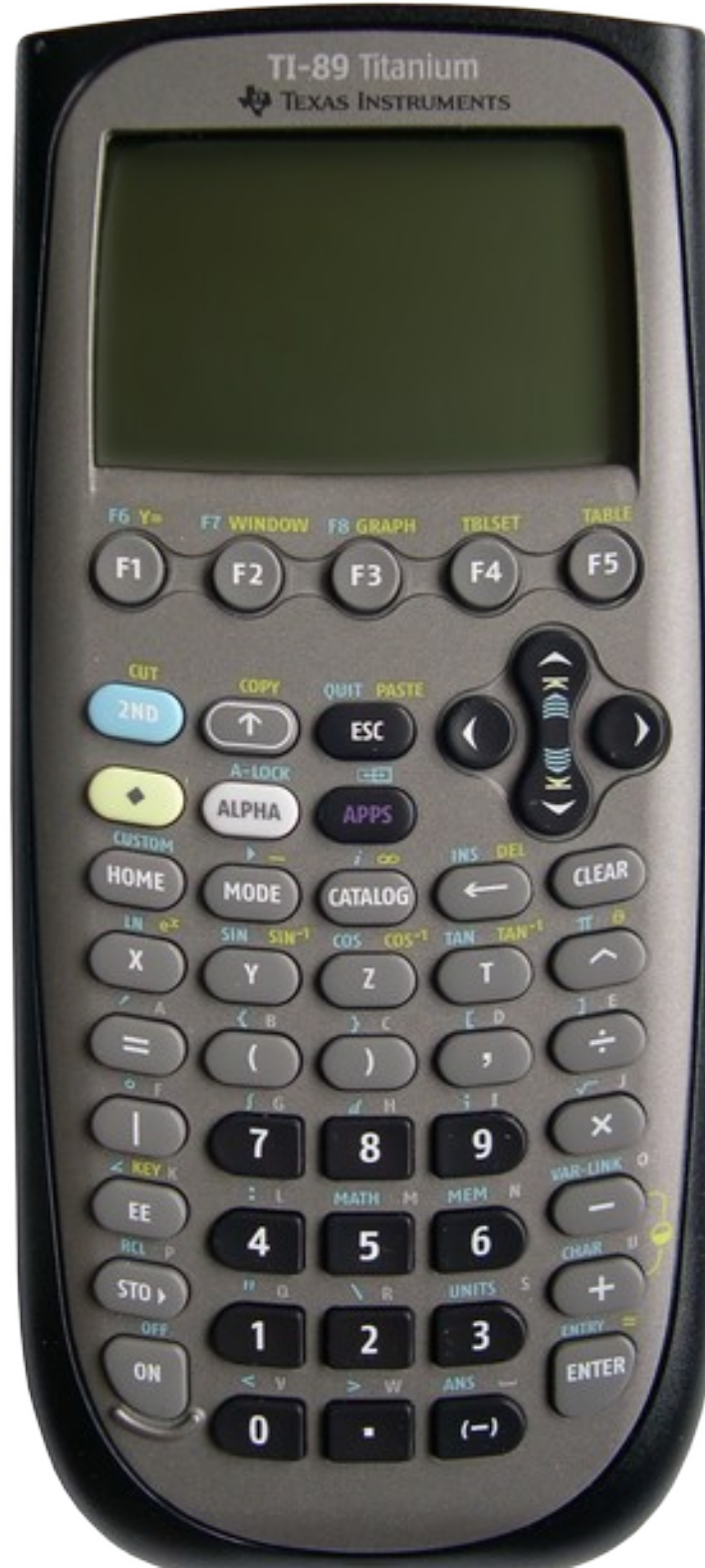
Albert Einstein

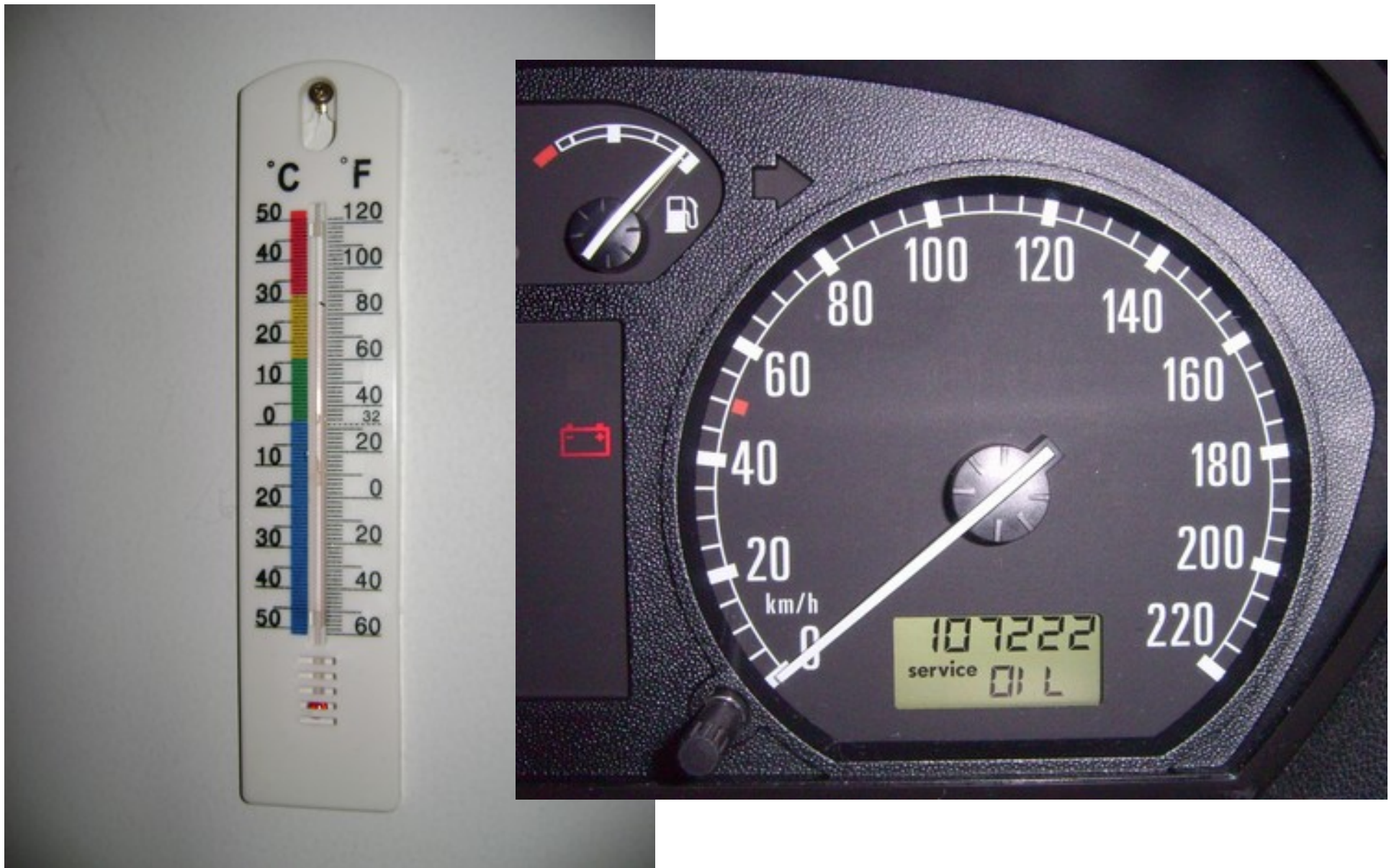
$$E = mc^2$$

$$e^{i\pi} + 1 = 0$$

Leonhard
Euler
(Eulero)

Carl Friedrich
Gauß





<http://it.wikipedia.org/wiki/Tachimetro>,<http://commons.wikimedia.org/wiki/File:Termometro.JPG>

Galileo Galilei



https://commons.wikimedia.org/wiki/File:Telescopio_refractor_Gran_Ecuatorial_Gautier_en_La_Plata.jpg
CC-BY-SA3.0 Dario Alpern





P = NP ?

ПОЧТА СССР

4к



1200

МИХАИЛ

Handwritten text in Cyrillic script, likely a postmark or cancellation mark, running vertically along the left edge of the stamp.

Handwritten text in Cyrillic script, likely a postmark or cancellation mark, running vertically along the right edge of the stamp.

محمد بن موسى خوارزمي



الكتاب المختصر في حساب الجبر والمقابلة



CC BY-SA 3.0 Abesty (Wikimedia Commons)





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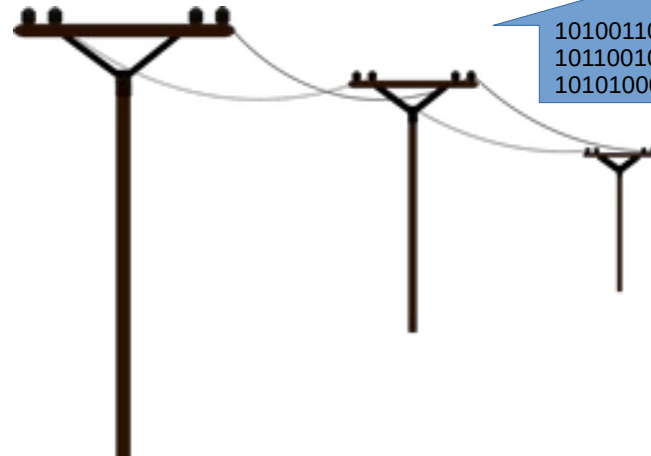
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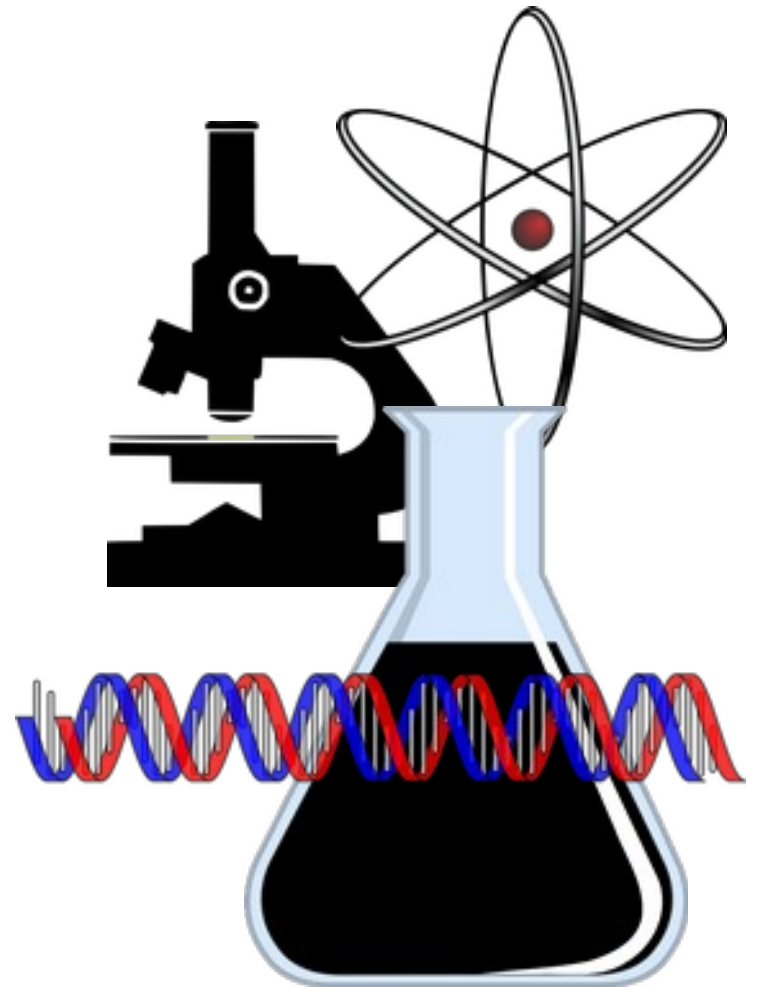


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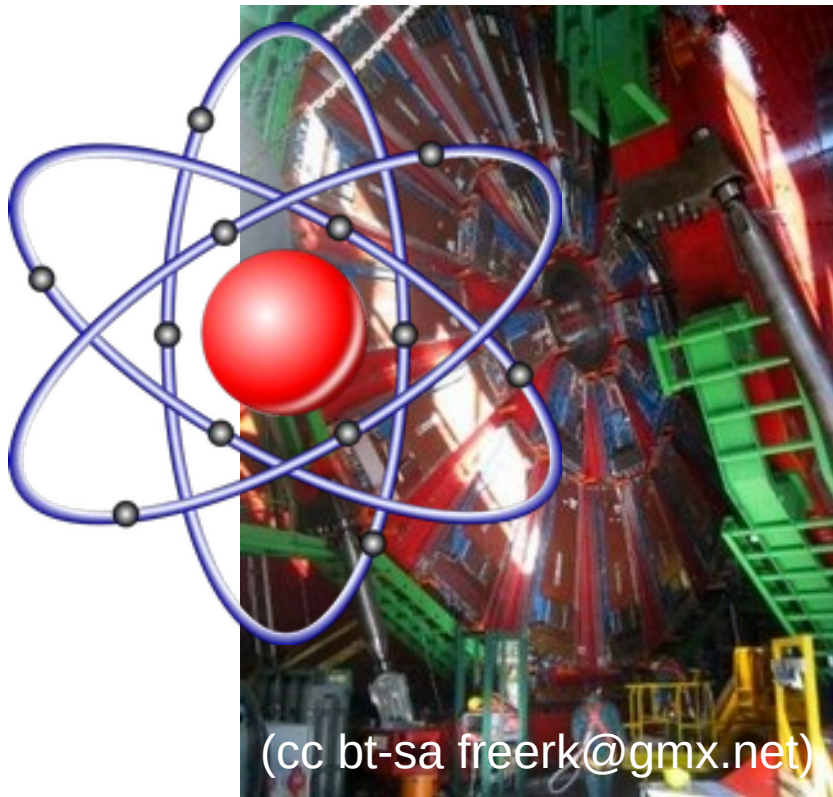


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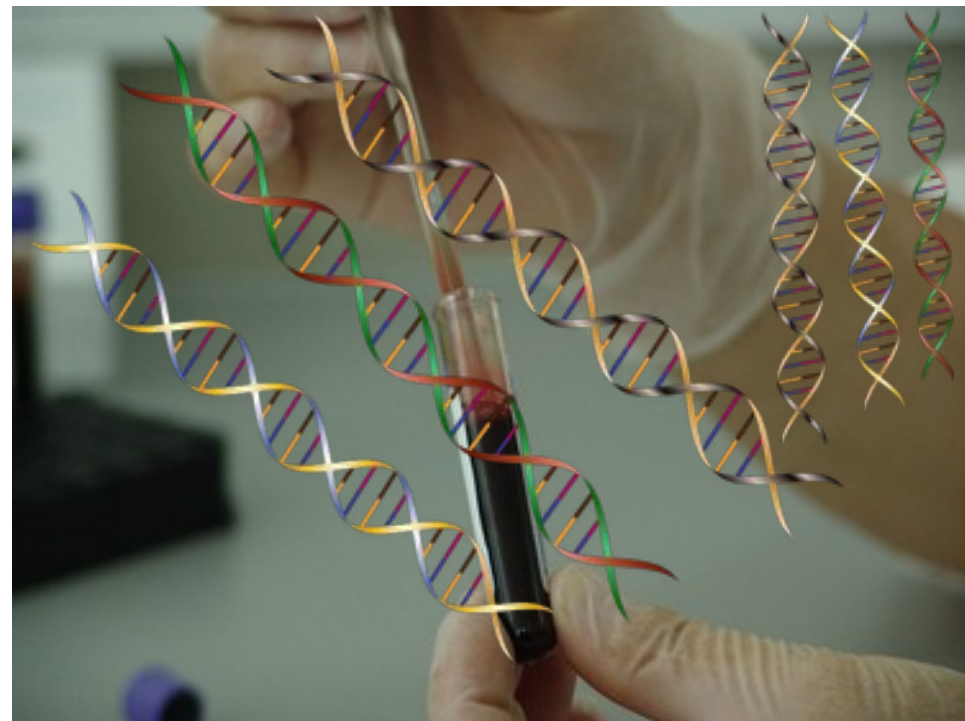








(cc bt-sa freerk@gmx.net)



Logicalia



Materialia



(CC BY-SA Valerie Hinojosa on Flyckr)





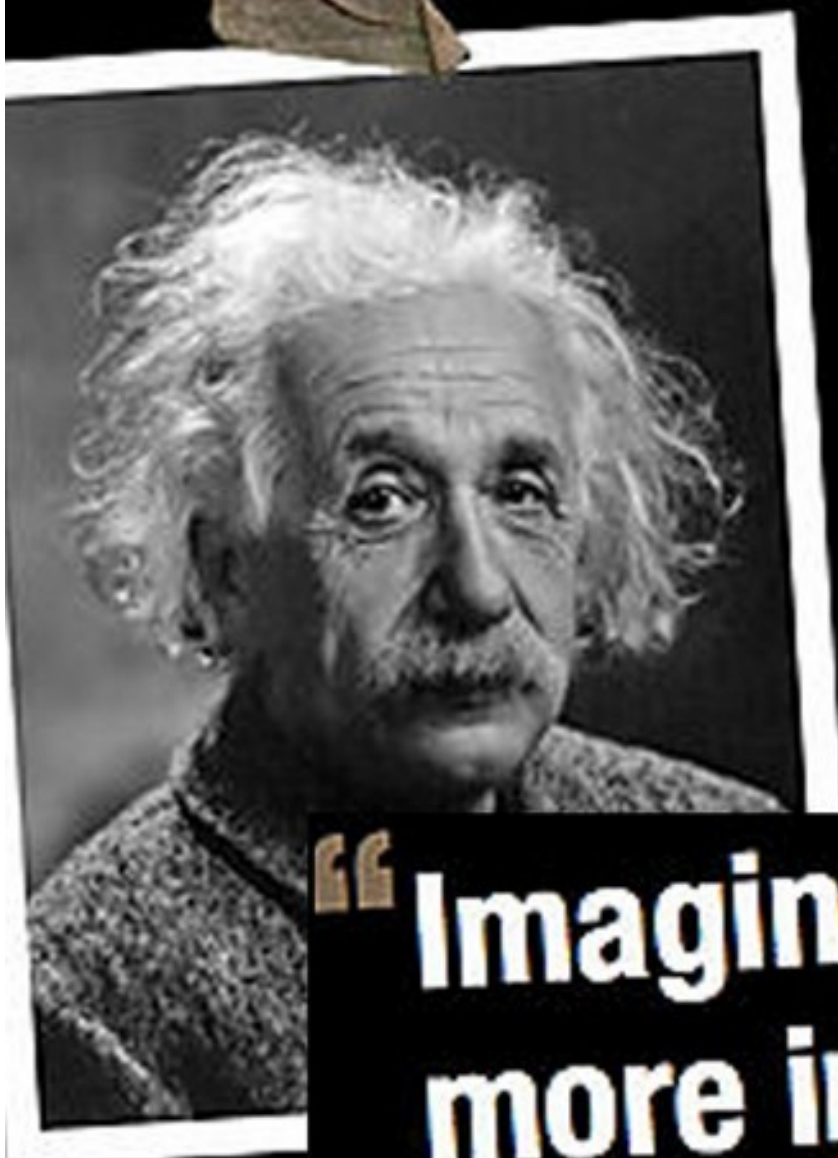
Logicalia

Materialia



“My contention is that
creativity
now is as important in
education as
literacy,
and we should treat it
with the same status.”

Sir Ken Robinson

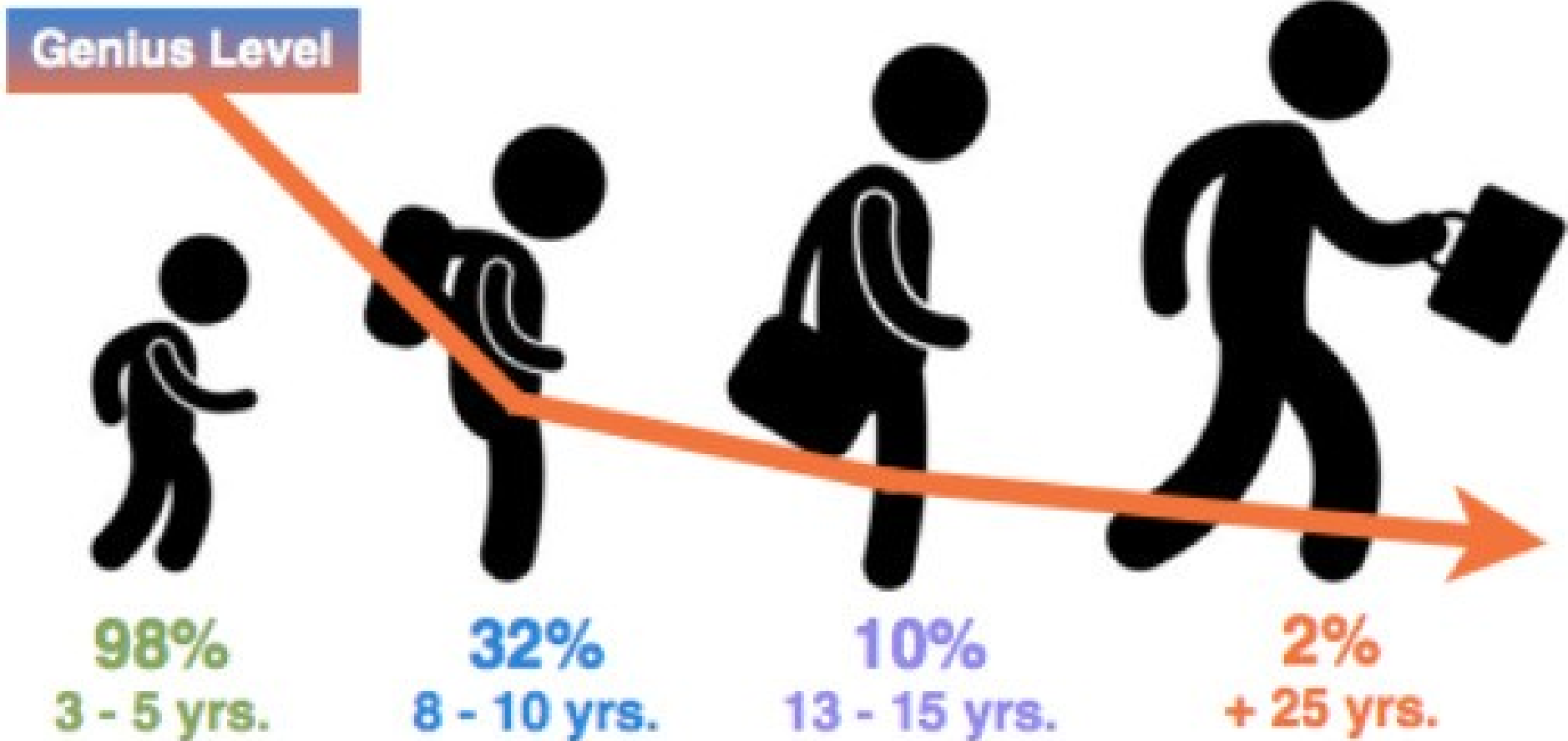


**“Imagination is
more important
than knowledge.”**

— Albert Einstein



https://commons.wikimedia.org/wiki/File:Colourful_assortment_of_paper_clips_%2810421946796%29.jpg
CC-BY2.0 Purple Sherbet Photography



<http://www.Imstemalliance.org/paperclip-challenge.html>



WHY



WHAT





Douglas Rushkoff
(https://commons.wikimedia.org/wiki/File:Douglas_Rushkoff.jpg CC-BY2.0 Paul May)

CODICE

Coding

*The Art of
Computer
Programming*



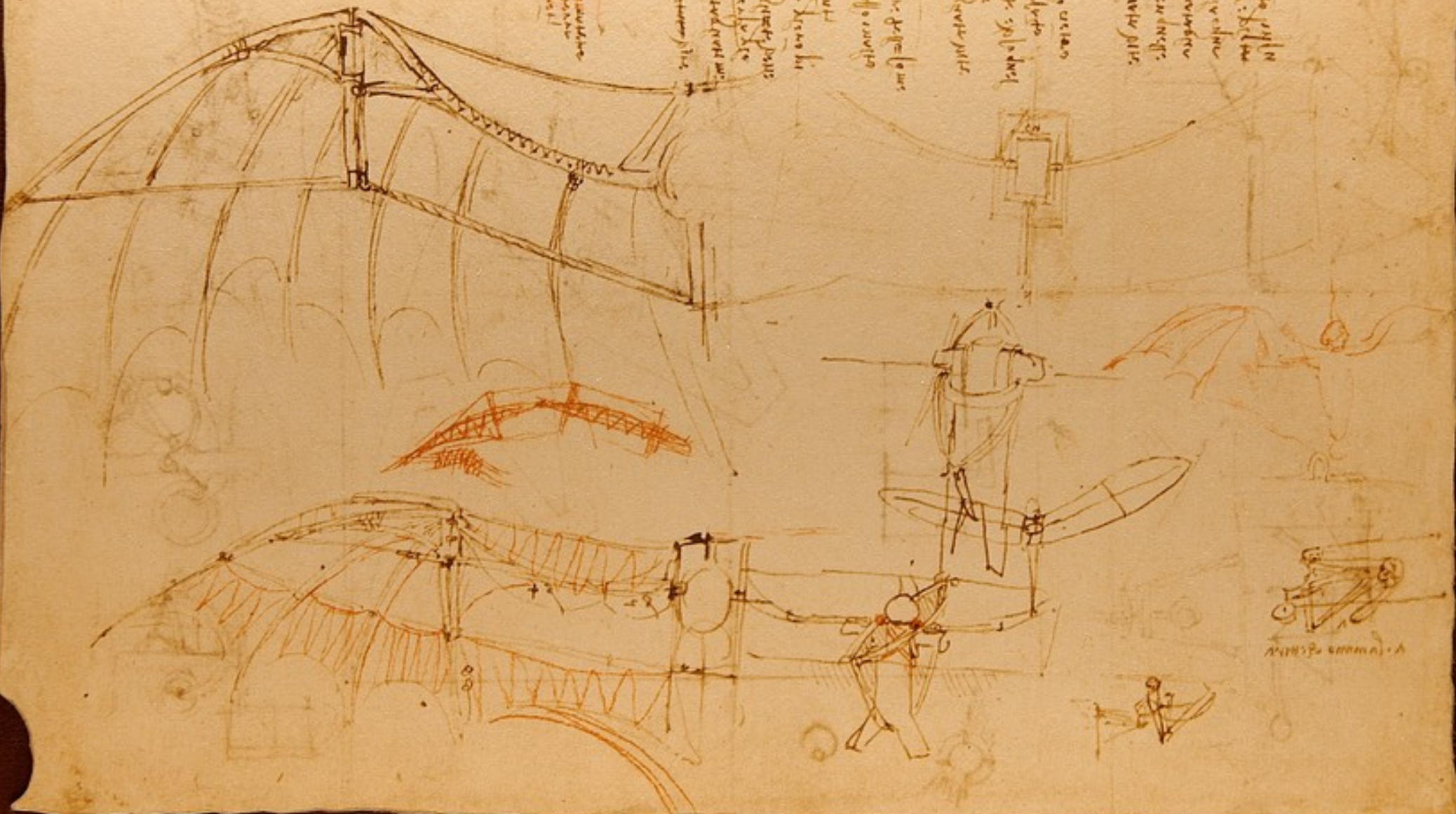


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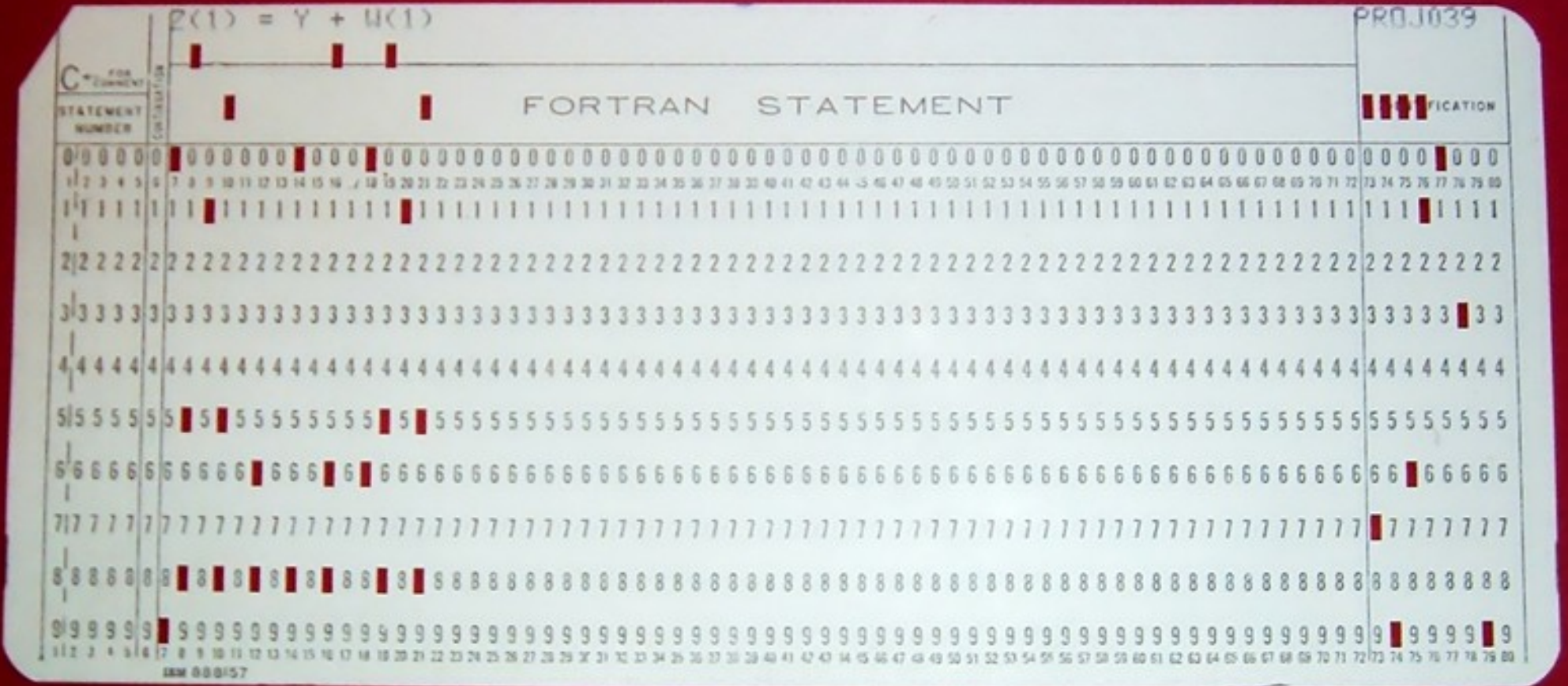
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V. L. ...
 ...





By Arnold Reinhold [CC BY-SA 2.5 (<https://creativecommons.org/licenses/by-sa/2.5>)], via Wikimedia Commons

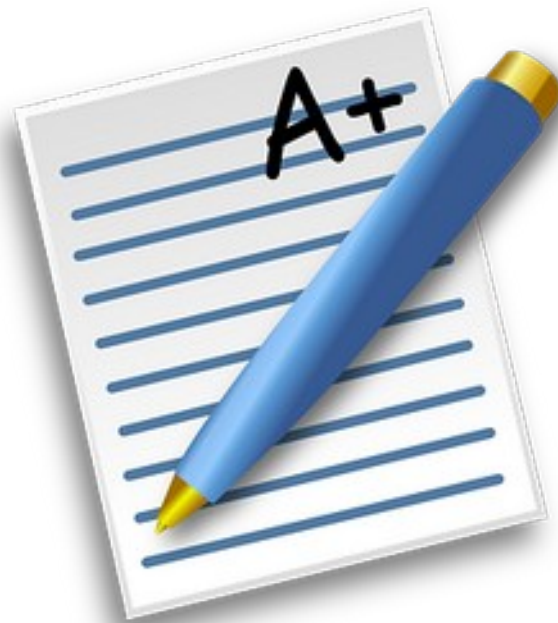
CODE(symbol)=meaning

code is knowledge





10 e lode a chi copia





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42
42

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from Wikimedia Commons

INFORMATICA

non è coding

Informatica vs. Italiano

- Uso tecnologia
 - Linguaggi
 - Programmazione
 - Algoritmi
 - Cultura
 -
- Lingua parlata
 - Grammatica
 - Lingua scritta
 - Antologia
 - Cultura
 -

Poi occorre avere
qualcosa da dire!

Chi sono gli errori dell'Informatica?

[http://www.madore.org/~david/computers/
greatnames.html](http://www.madore.org/~david/computers/greatnames.html)

It's for women!

- Lady Ada Lovelace
- Grace Hopper
- Hedy Lamarr
- Libor Fried



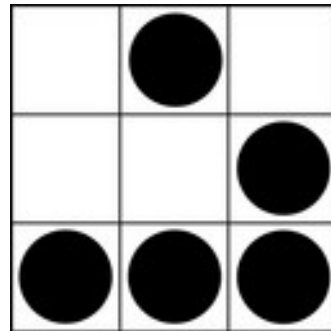
2006 – Frances "Fran" Elizabeth Allen

2008 – Barbara Liskov

2012 – Shafi Goldwasser

We are still creating art and beauty on a
computer:

the art and beauty of revolutionary ideas
translated into (libre) code...



renzo, rd235, iz4dje