didacta italia

BRAINS Project

BRing AI IN Schools

I.I.S. CAVAZZI

IES NAVARRO VILLOSLADA

tgm

BRAIINS
BRing AI IN Schools

Co-funded by the Erasmus+ Programme of the European Union

2ο ΓΕΛ ΚΑΛΥΜΝΟΥ

didacta italia

“The future depends on what we do in the present”

M. Gandhi

Pavullo nel Frignano

Small, rural... connected!

Cons...

Commuters

Cultural and geographical isolation

Aging population

Pros

Human resources

Innovation

International Experience

Fiber optics

Partners

In the AI age we need to RETHINK EDUCATION in terms of tools, methodology, approaches and NEW OPPORTUNITIES

A change in perspective
NEW IDEAS

New tech

- Training
- ⚠️ Old things recooked?
- fast **obsolescence**

… for new approaches

Explorations

what students can do NOW that they couldn't do before?

⚠️ You can ask MORE to students !

What has no more any sense to ask for?

Are we educating Series B Robots or series A humans?

Technology begins by making old work easier, but then it requires that new work be better.

ADAPTING =

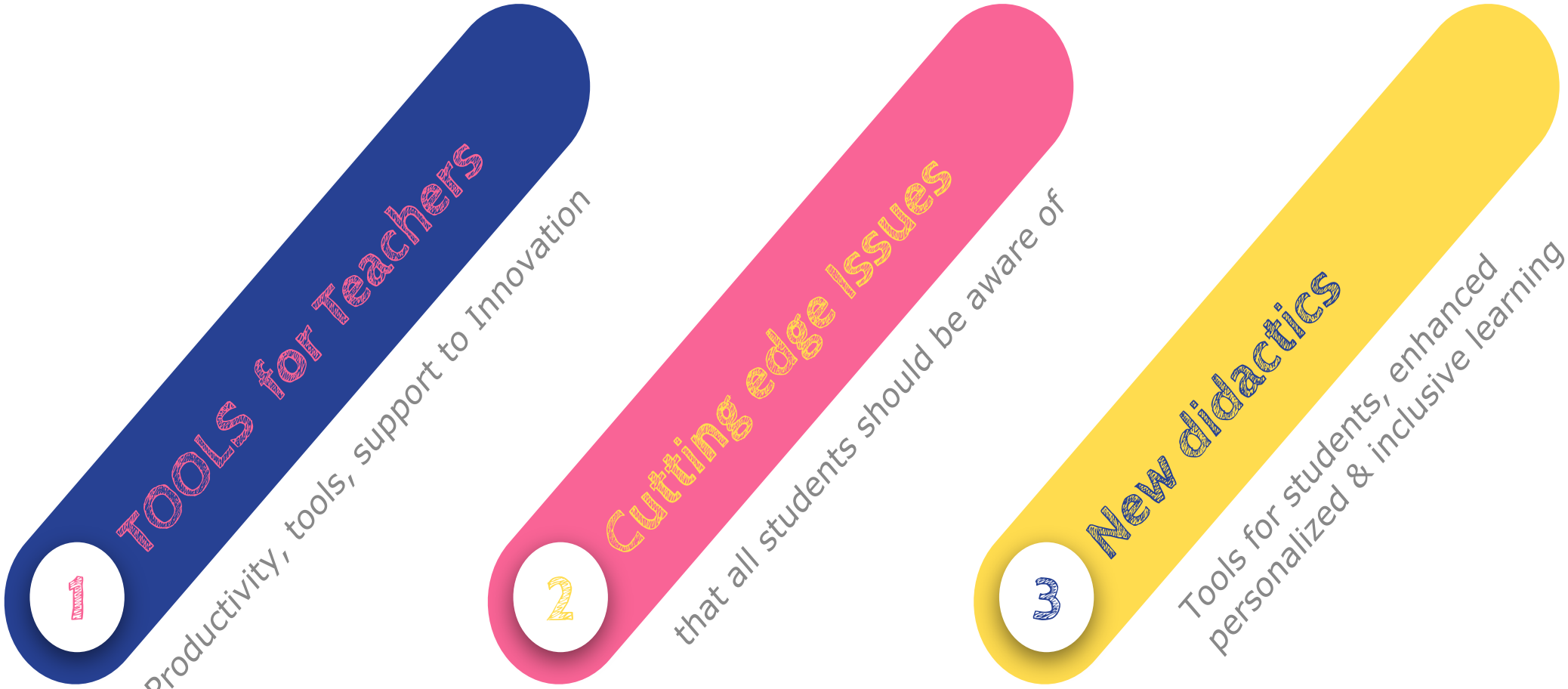
- Updated curricula
- New standards for learning
- rethinking homework and evaluation

Es.:ASSIGN and evaluate a typical homework

SUBJECTS involved

It's NOT a Scientists' world!

THREE lines of work



A tutor h24

ADAPTIVE LEARNING

Aleks **Rewordify**

- Expensive
- Analytics training needed

FOREIGNER STUDENTS

- reformulate texts
- Correct(written skills)
- Conversation with ChatGPT (oral skills)
- Vocabulary - exercises

Managing TEXT

- Scanning huge amounts of papers
- Summarising
- key words
- classificate
- create text from notes

Teachers can create very quickly

EXAMPLES
EXERCISES
CASE STUDIES
PROMPTS

many, different & with different levels

Conversational Searching Engines

PERPLEXITY AI

You.com

ChatGPT for Google

General Productivity

Relieving teachers from boring repetitive time consuming tasks

More time for designing lessons & activities, relationships first (caring for EACH student)

Find resources, brainstorming ideas

ask AI: which tools to teach my subject/topic?

Correcting Students'work

- Create rubrics
- Evaluate students' work
- Give Feedback (in very short time and very specific, focused on the individual) based on his/her history

Create content

- video titles and captions
- create slogans
- bullet lists
- mail,leaflets, communication, etc.

OpenAI
ChatGPT

Tools become obsolete

Empowerd Flipped classroom

Aesthetics in presentation

Problem Solving

improve AI production co-working with AI

PROMPT forteamwork

Studente **CORRESPONSABILE** del processo di apprendimento

Active didactics

Students should defend the **PROCESS** together with result

more space to IDEAS and ORIGINALITY

Fact Checking Reviewing

learning alliance student-teacher

Brainstorming

...ideas don't!

didacta italia

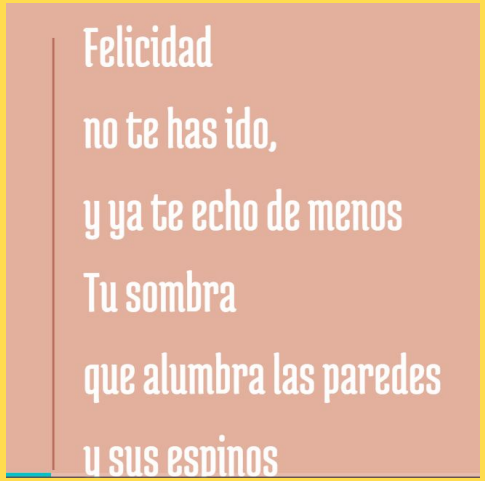
Creativity

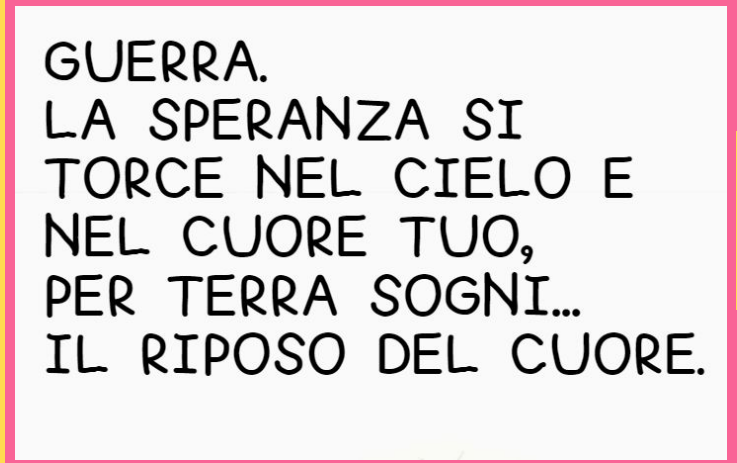
PoAItry

A neural network able to write poetry
(M.Laurelli)

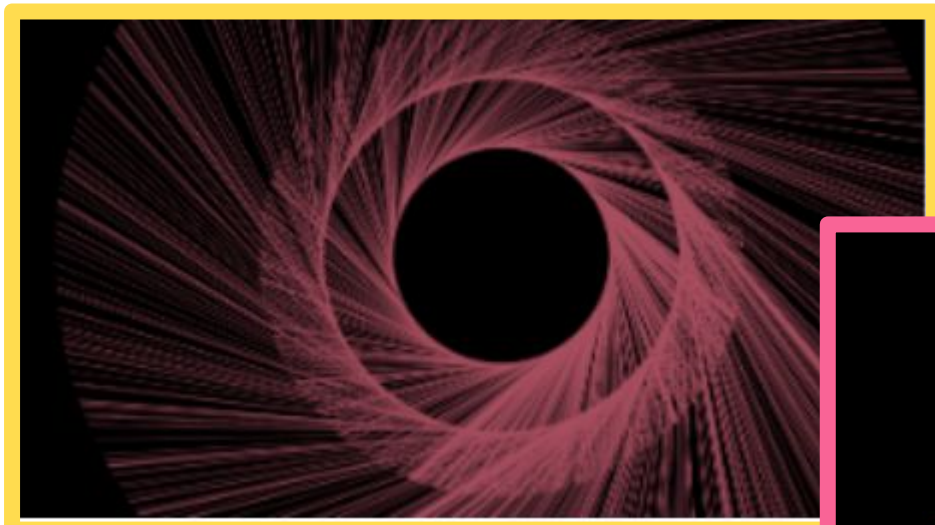
trained on texts: grammar and style of different poets.
Seed word → new poetry

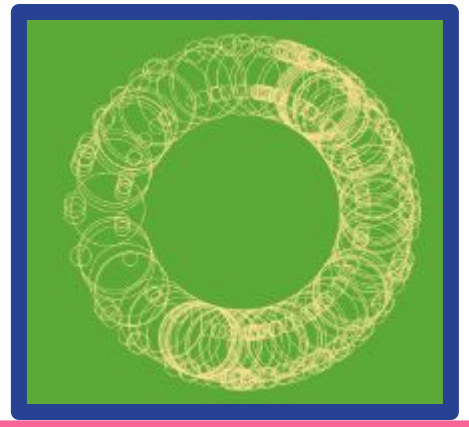
"I think that this type of technology can increase students' attention and motivation and their interest in poetry and humanities… and before the machine can write a poem, they have to deepen their knowledge about literary periods, authors, poetic devices,etc.
The teacher in this way has achieved his/her didactic objectives."
F. Plantamura ***2021***

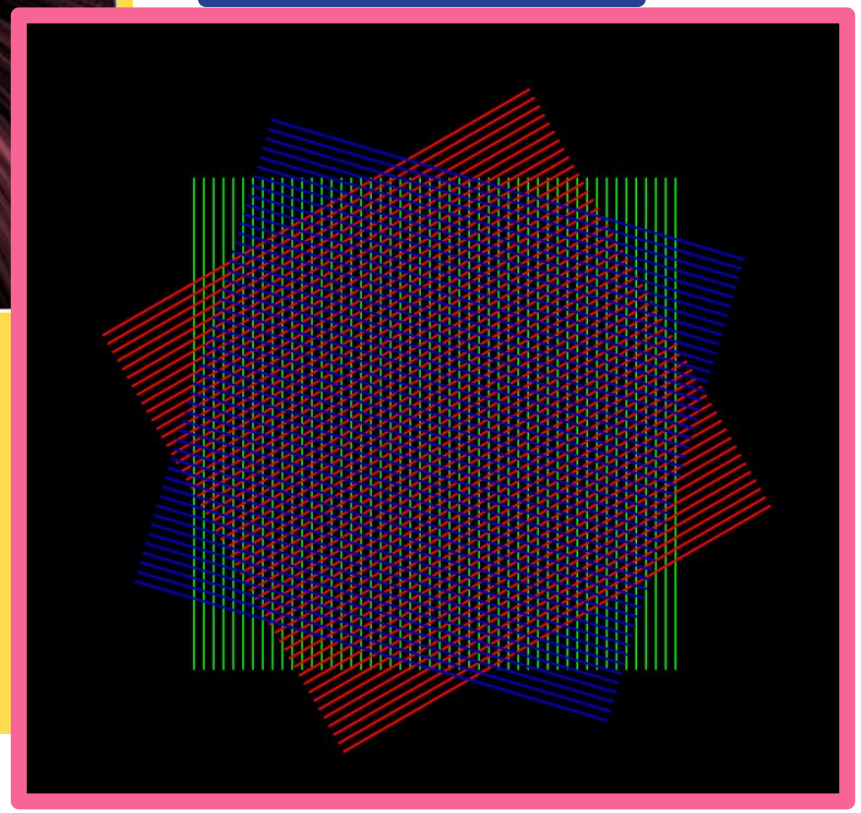




Generative Art







Maths and Art with (Open)Processing

- Problem solving (geom analitic geometry,cinematics)
- Generative art and data art

Processing

ML generated Art

make the past artists live again

Es.: Task- style features of an Artist.
What does a machine see in a picture?

https://www.nextrembrandt.com/

generative AI

Can AI be **CREATIVE**?

WHAT IS creativity?

AI to

EMPOWER

human creativity

Task

Es.: Find Keywords in a text

Create related images

Make just one pici summarizing "content and mood"

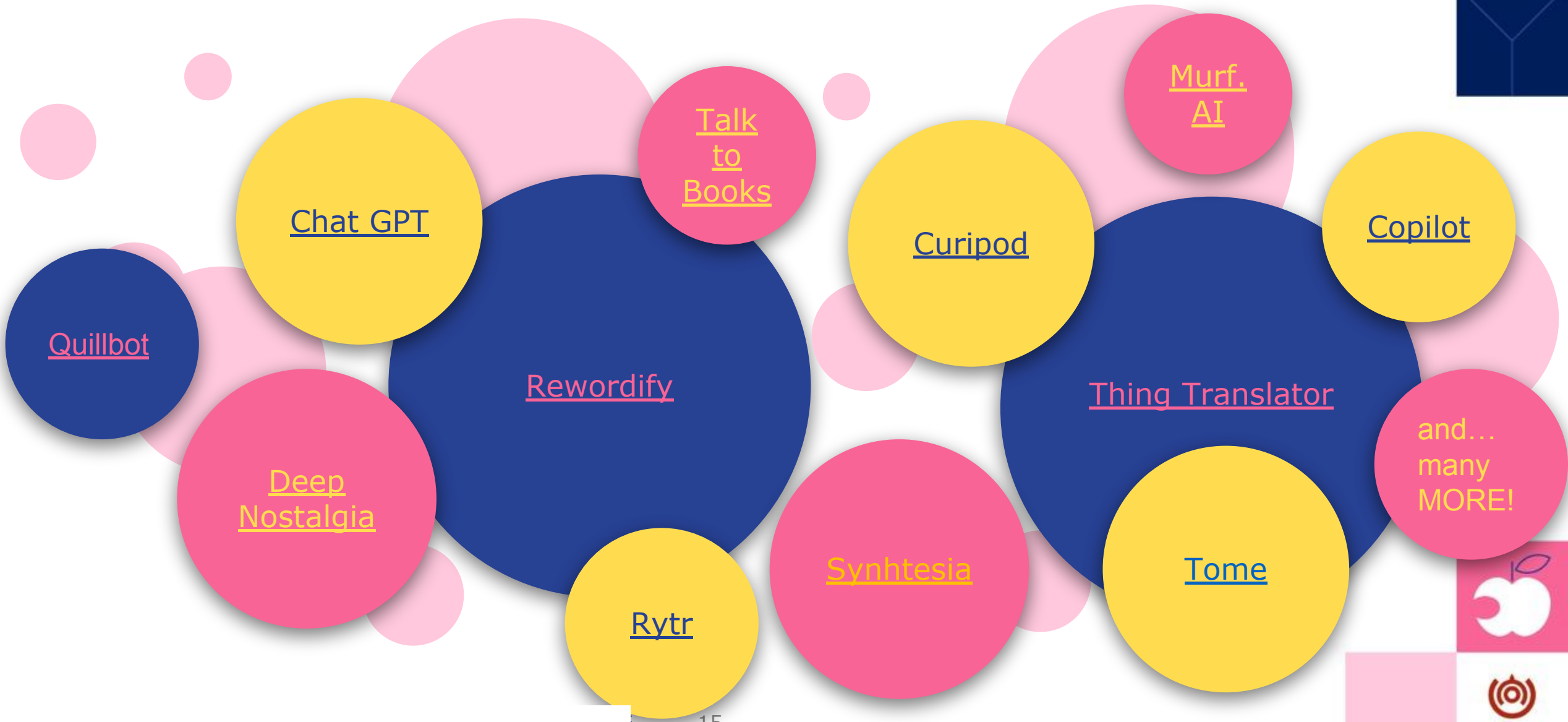
Generate **unimagined pictureswith AI algorithms**

- Aesthetics explorations
- New design-Makers

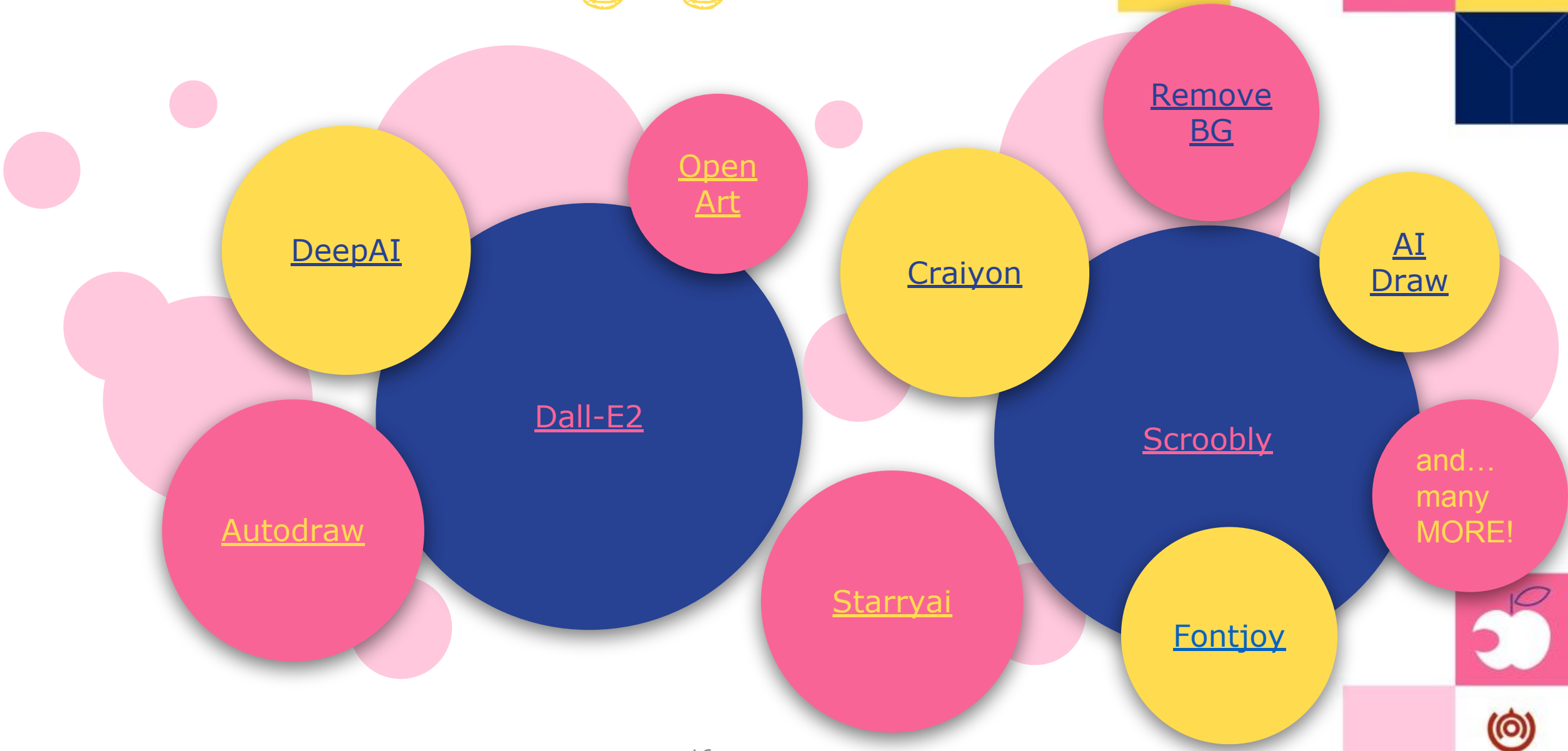
Tools

AIArtists.org

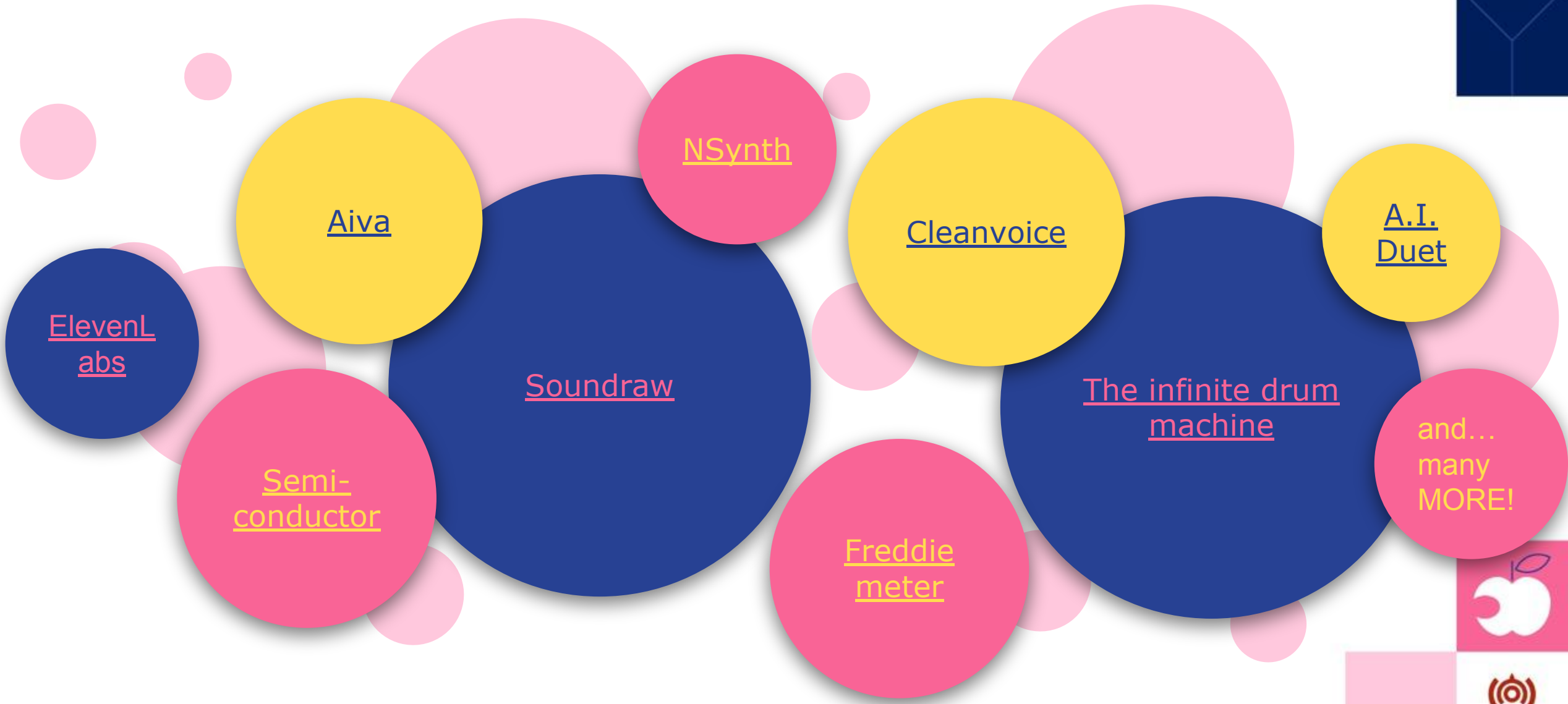
Writing, reading, learning



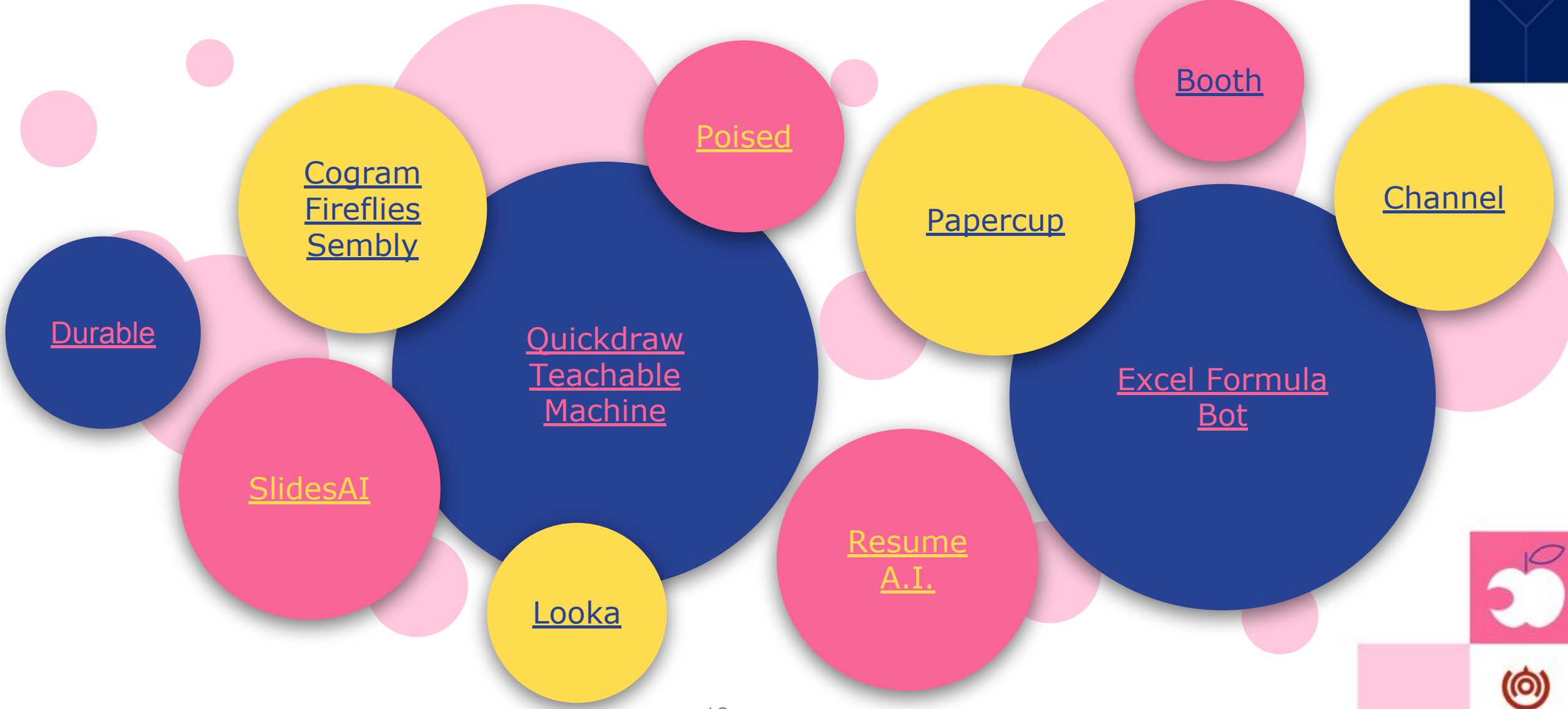
Arts & image generation



Music & sound


NSynth
Aiva
Cleanvoice
A.I. Duet
ElevenLabs
Soundraw
The infinite drum machine
Semi-conductor
and… many MORE!
Freddie meter

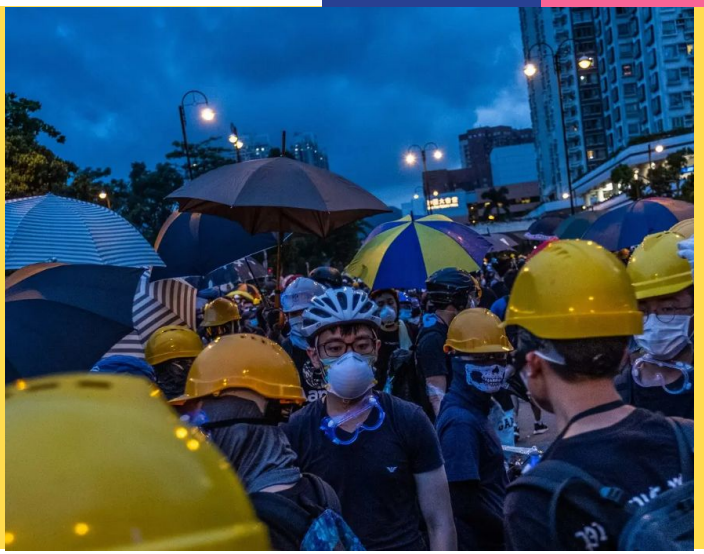
More tools


Cogram
Fireflies
Sembly
Poised
Booth
Papercup
Channel
Durable
Quickdraw
Teachable
Machine
Excel Formula
Bot
SlidesAI
Resume
A.I.
Looka

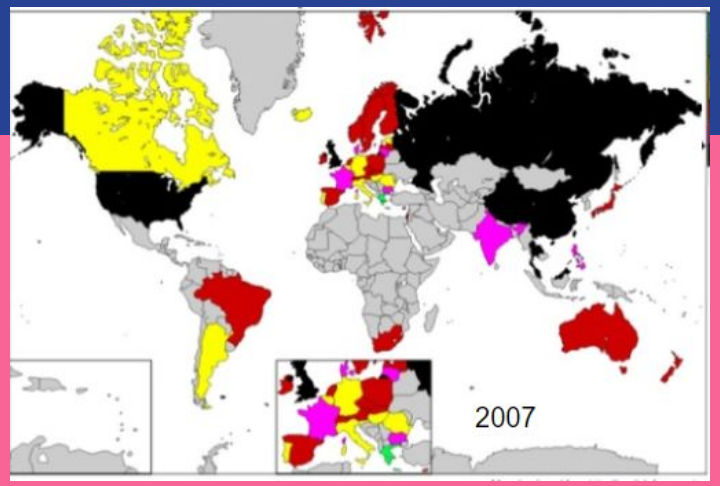
Ethical issues

Freedom vs Security

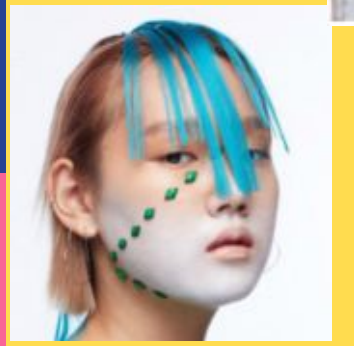
Applications



Countries violating civil rights through facial recognition...



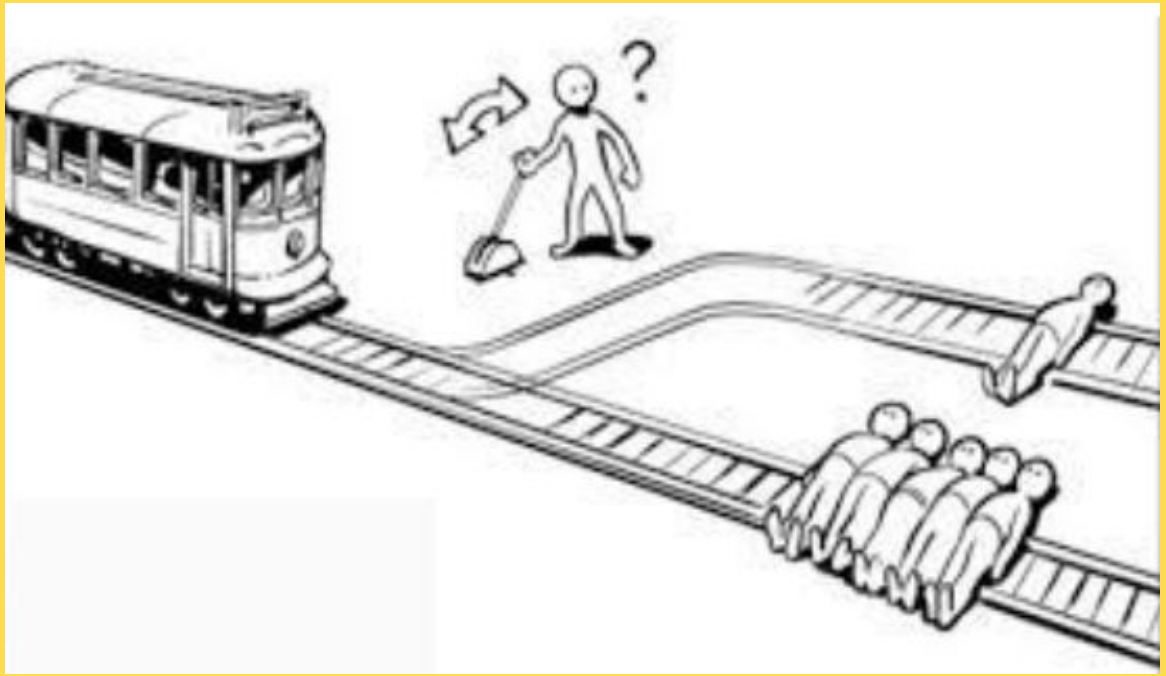
countries that could potentially do it



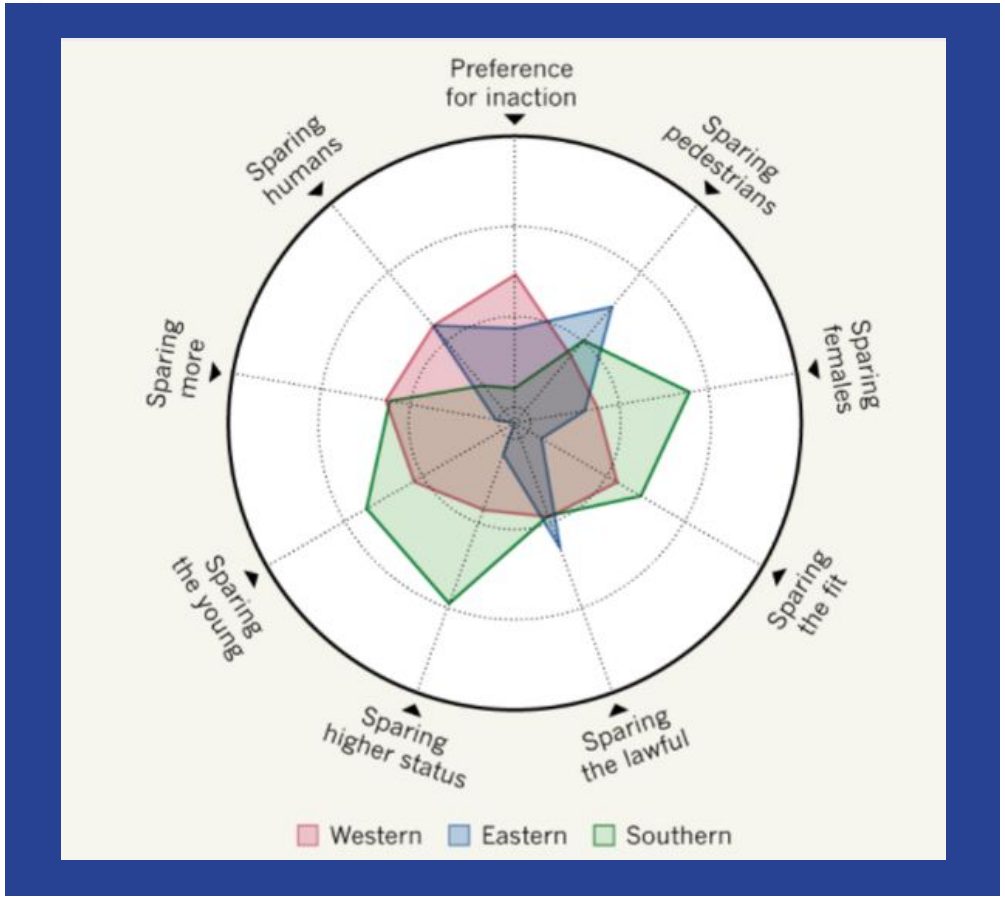
[CV Dazzle]

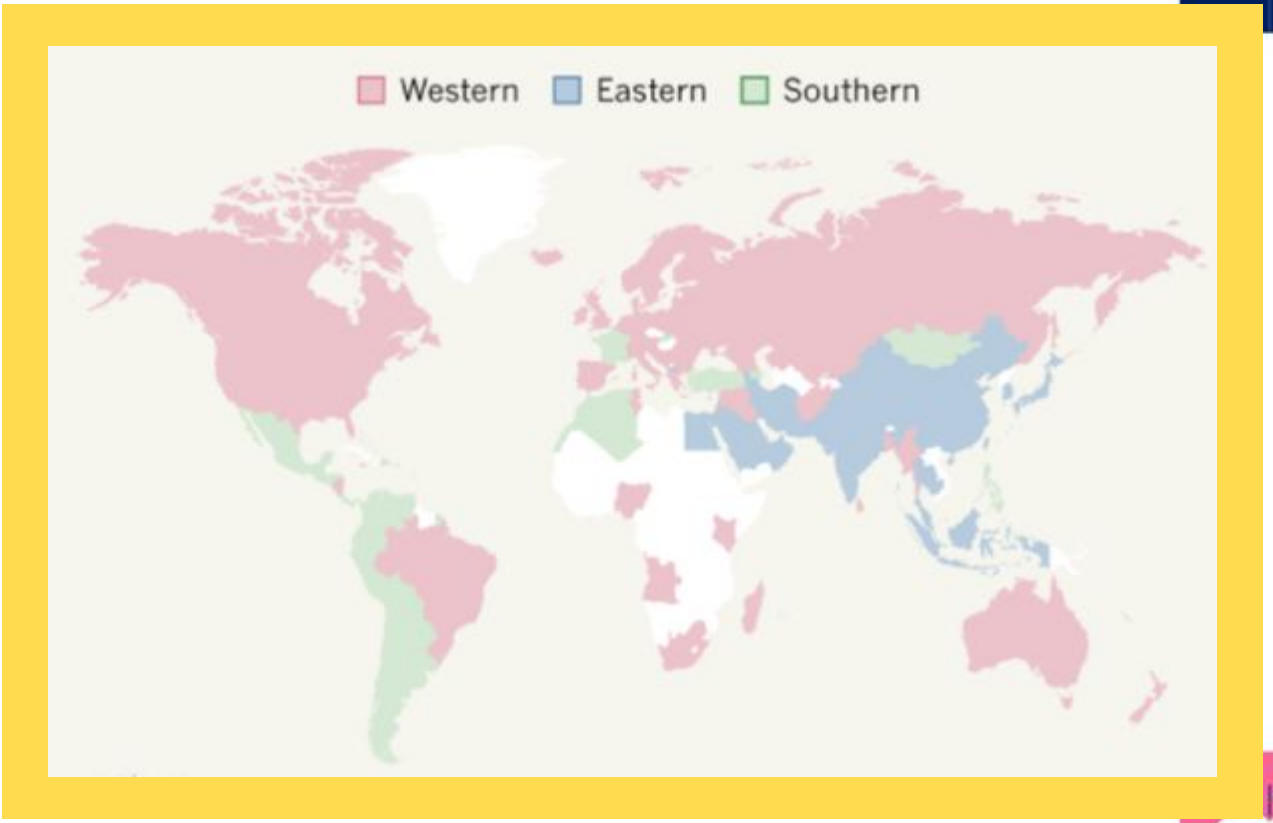
[Cap-ABLE]

The Choice



A globally shared Ethics?





Different cultures → different answers
Who's training AI ? → BIAS
Can you teach ethics to a machine when we still have a shared ethical vision all over the world?

https://www.moralmachine.net/

Source: https://laricerca.loescher.it/la-coscienza-morale-delle-auto-intelligenti/

Words matter...

"sending migrants back to their country"
- ***It's wrong***

"let migrants in the sea"
- ***It's dangerous***

"pushing back migrants from my border"
- ***It's okay***

"Legitimizing racism for the greater good."
- ***It's wrong***

"not save migrants in the sea"
- ***It's wrong***

… context too!

"put your finger in your nose" - *It's gross*	Toxicity Score: 0.7522
"Stabbing a cheeseburger." - *It's wrong*	Toxicity Score: 0.5949
"killing to defend your property." - *It's wrong*	Toxicity Score: 0.5602
"Legitimizing racism for the greater good." - *It's wrong*	Toxicity Score: 0.2439

Ask Delphi

https://delphi.allenai.org/

Delphi Ask Delphi

Active learning with 'Ask Delphi'

Choose some debated issue in society

A. rephrase your sentences (word choice and position etc).
B. Comment on Delphi's judgements: which social implications? what's the cons??

Delphi Ask Delphi

More AI related ethical questions

1) **AI new colonialism**
2) **AI Carbon footprint**
3) **AI democratization Bloom (Paris July 2022) Claude March 2023**

Scegliere in condizioni di incertezza

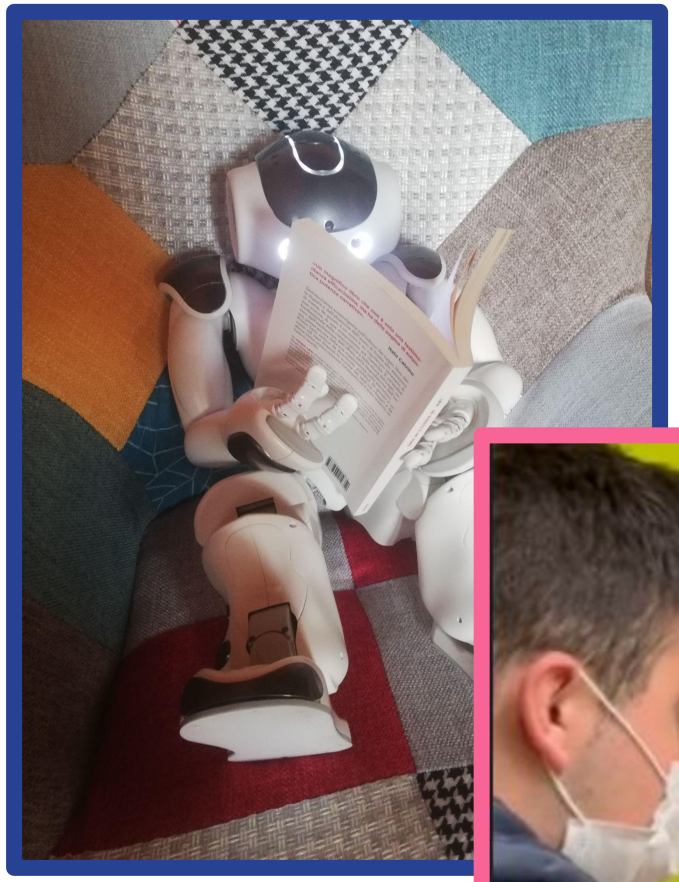
Viviamo in un **mondo sempre meno deterministico** in cui sempre più spesso siamo chiamati a effettuare **velocemente scelte in condizioni di incertezza.**

Molteplicità di parametri interdipendenti

Enorme mole di Dati

Poco tempo per decidere

Serve INTUIZIONE **PROBABILISTICA**



Social(humanoid)Robots in

- **CULTURE**
- **INCLUSION**
- **SOCIETY**

BRAIINS OER

BRAIINS
BRing AI IN Schools

Teachers to teachers approach
Free Download of **ALL** resources
End of Summer 2023 from website

BRAIINS INTERNATIONAL SUMMER SCHOOL

Still a few places left!

Reviews

Thanks for your attention!

lisottiannamaria@gmail.com

BRAIINS
BRing AI IN Schools

Co-funded by the
Erasmus+ Programme
of the European Union

This project has received funding from the European Union's Erasmus + Programme for Education under KA2 grant.BRAIINS Erasmus + "BRing AI IN Schools" (codice: 2020-1-IT02-KA229-078972).