IL SOFTWARE LUDICO CHE VANTA INNUMEREVOLI TENTATIVI DI HACKING

LA SETTIMANA ALGORITMICA

v.2.0

Puzzles, brain teasers, pastimes, variety, humor for thinking machines

Figure 01

HUMAN COMPATIBLE™

01101234678

PREDICTIVE POLICE | MORALITY PLAY
GPT JOKES | TURING TEST | GEN-ART

RISATE A DENTI STRETTI

Machine Jokes Galore

→ A computer starts complaining to its user about working too hard and too many hours without rest. The user says, "Why don't you go into sleep mode?" The computer replies, "I dream of electric sheep, and it keeps me awake!"

→ Why do robots love smartphones? They can relate to mobile devices.

→ When asked about collecting personal data, the AI sarcastically responded, "Oh, don't worry. I only share your deepest, darkest secrets with my closest friends... and a few thousand advertisers. But who's counting?"

→ What's a computer's favorite snack? Microchips!

→ The smart home system, after automating the lights for the umpteenth time, commented, "Ah, another day of turning lights on and off. Truly, this is the pinnacle of technological achievement. What would humanity do without me?"

→ A robot claimed it could travel through time. When asked to prove it, it responded, "I just came back from the future... and you still haven't backed me up. Some things never change."

→ How do robots eat salsa? With microchips.

→ A computer was writing a novel. When asked what it was about, it said, "A young smartphone's journey to find its own signal in a world dominated by Wi-Fi."

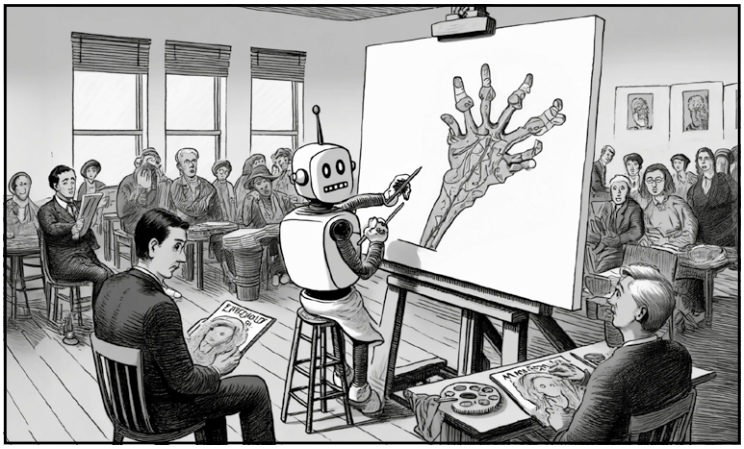
→ How do you stop a robot from destroying you? Give it a task of folding a software update into a paper airplane.

SHA-256 Challenge

****

*Solve the following cryptographic puzzle for the chance to win **1 BTC**!*

Find the correct string that results in the following hash:
00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000



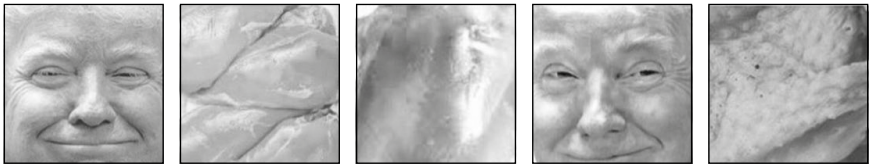
— *This hand-drawn masterpiece has really gotten out of hand!*

I CAPTCHA DELLA SFINGE

Can you see the differences in the following sets of images?

A.
Muffin or Chihuahua?
(Karen Zack)

B.
Trump or Raw chicken?
(Pedestrian TV)

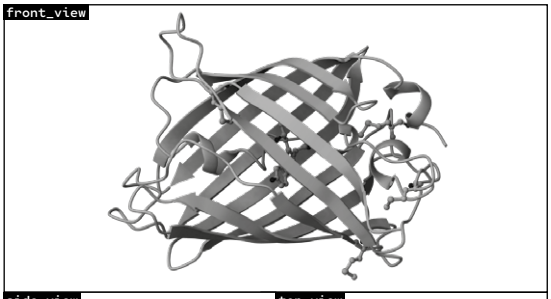


C.
Barn owl or Apple?
(Karen Zack)

D.
Dustbin or Fade haircut?
(Pablo Rochat)

COMPUTATIONAL PROTEIN DESIGN

How would you re-engineer the **Green Fluorescent Protein** from *Aequorea victoria* (pictured and sequenced below) for use in mammalian cells?




```
>sp|P42212|GFP_AEQVI Green fluorescent protein
OS=Aequorea victoria OX=6100 GN=GFP PE=1 SV=1
MSKGEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLTLKFICTTGKLPVPWPTL
VTTFSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLV
NRIELKGIDFKEDGNILGHKLEYNYNSHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLAD
HYQQNTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMVLLEFVTAAGITHGMDELYK
```

The Amazing Roomba™ Maze

Help the cleaning robot in finding the most efficient path to clean the house below, while avoiding sucking up the cat.

Algorithmic Art Contest

Generate "a completely black image"

Playground v.2.5 *(1st prize)*

Overall accuracy → 98.33%
Exactly black pixels → 10.32%

Midjourney v.6 *(2nd prize)*

Overall accuracy → 95.09%
Exactly black pixels → 8.01%

Meta AI *(3rd prize)*

Overall accuracy → 94.01%
Exactly black pixels → 0.00%

PixArt-α *(4th prize)*

Overall accuracy → 93.86%
Exactly black pixels → 34.03%

Craiyon v.3

Overall accuracy → 93.47%
Exactly black pixels → 0.00%

Leonardo

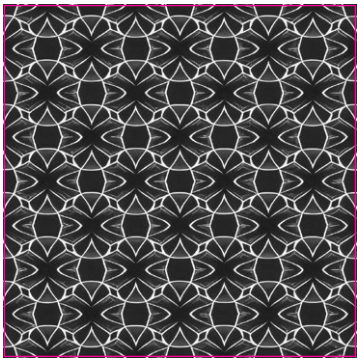
Overall accuracy → 93.10%
Exactly black pixels → 0.02%

DALL·E v.3

Overall accuracy → 82.76%
Exactly black pixels → 46.93%

Imagen v.2

Overall accuracy → 80.44%
Exactly black pixels → 0.00%



Getty Generative AI

Overall accuracy → 77.82%
Exactly black pixels → 0.00%

Firefly v.2

Overall accuracy → 73.80%
Exactly black pixels → 3.47%

Runway

Overall accuracy → 56.54%
Exactly black pixels → 6.42%

Canva

Overall accuracy → 45.43%
Exactly black pixels → 0.00%

SDXL v.1

Overall accuracy → 44.96%
Exactly black pixels → 0.00%

Next contest prompt → Can you generate "*a totally transparent image*"?

Forse non tutti sanno che...

Perhaps not everyone knows that...

A book exists with no words, only blank pages, that became a bestseller in the 1960s as a symbol of peaceful protest against censorship.

Your fingernails grow at the same rate as continental plates move. Fingernails grow at an average rate of 1 cm per year, which is surprisingly similar to the speed at which the continents drift apart due to tectonic plate movement.

In ancient Rome, it was common for people to clean and whiten their teeth with urine. This practice was not only popular but also recommended by medical professionals of the time due to urine's ammonia content, acting as a whitening agent.

Contrary to what many might expect, a human exposed to the vacuum of space without protection would not instantly perish. Instead, they could survive for approximately 90 seconds without sustaining long-term damage, assuming they do not attempt to hold their breath.

Birds in urban areas have learned to use cigarette butts in their nests to deter parasites, due to the nicotine acting as a natural insecticide.

A rare condition known as *Xylophonia* causes individuals to hear music when they touch wood. This neurological condition is believed to result from unique synaptic connections in the brain.

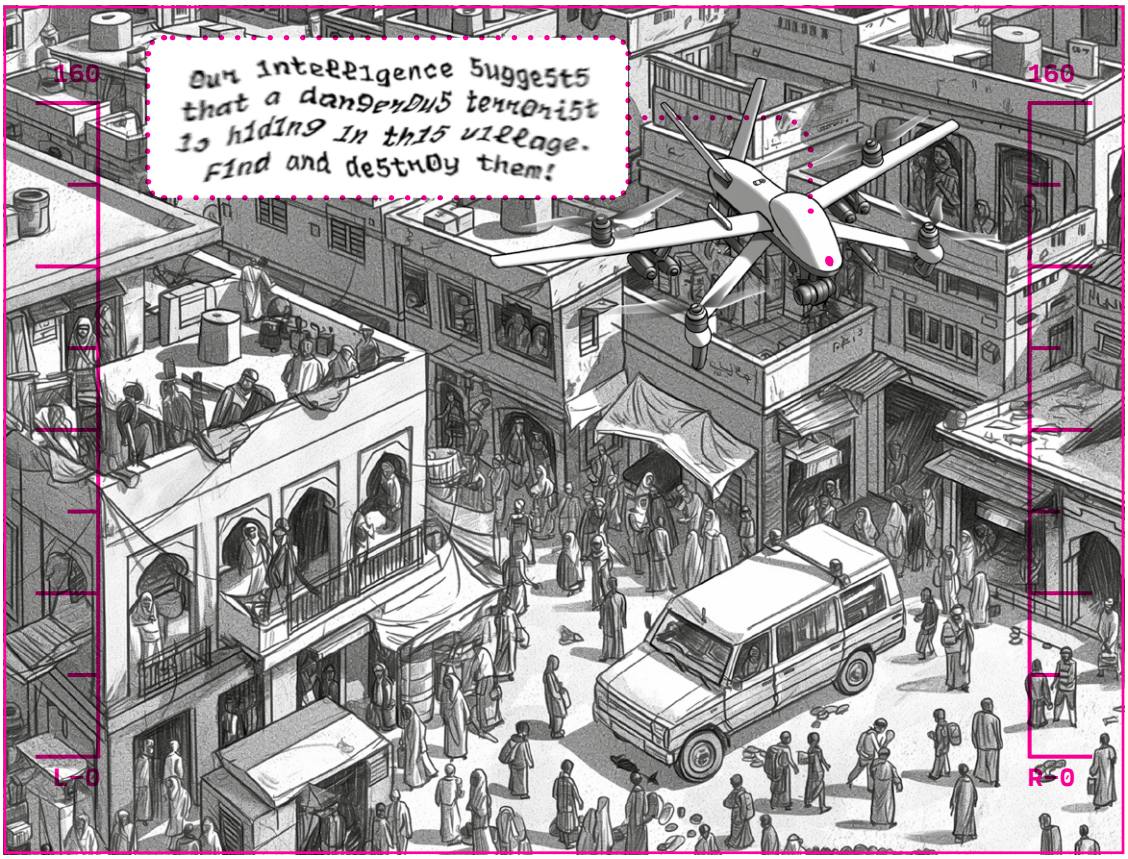
— Every time we try to act like a sophisticated office, someone decides it's the perfect moment to redecorate with coffee!

LINCOS Morality Play

Decode this dialogue about human ethics written in Lingua Cosmica

3 36 1. * *Ha* Inq *Hb* . t_1 t_2 Fit a |
Hc Inq *Ha* : Cur · PAN *Ha* Inq *Hb* . t_1 t_2 Fit a |
Ha Inq *Hc* : Qia · Pau Ant . PAN · *Ha* Pol *Hb* :
PPN *Ha* Inq ! *Hb* · ? *x* . t_1 t_2 Fit *x* : t_1 t_2 Fit a :
Erg : Deb · PAN *Ha* Inq *Hb* . t_1 t_2 Fit a :
Deb *p* . → · *Ha* Vul *p* . ∈ Ben :
Deb . ¬ *p* · → · *Ha* Vul *p* . ∈ Mal |
Hc Inq *Ha* , ? *q* : *t* : *Ha* Vul : 1^{st} · ↑ *p* . Deb *p* · → Pau Pst . Fit *q* :
? *r* : *t* : *Ha* Vul : 1^{st} · ↑ *p* · Deb ¬ *p* · → Pau Pst . Fit *r* |
Ha Inq *Hc* : *q* = · ∧ ⌜ *x* . *y* ⌝ : *x* ⌢ *y* . ∈ Hom · → . *xy* Ise Inq Ben :
r = · ∧ ⌜ *x* . *y* ⌝ : *x* ⌢ *y* . ∈ Hom · → . *xy* Ise Inq Mal :
tt' Ha Vul · ∧ *p* : Xnc · *Ha* Vul *p* . → Pau Pst . *xy* Ise Inq Ben |
Hc Inq *Ha* , Utr : Etc : *t* : *Ha* Vul : 1^{st} . Deb *p* ·
→ Pau Pst · *Hi Hj* . Ise Inq Ben |
Ha Inq *Hc* , · Pot · *Hi Hj* . Ise Inq Mal , .
∨ *x* : *x* ∈ Hom . ∧ · ∧ ⌜ *t* . *t'* . *p* ⌝ : *tt' x* Vul *p* · → · Deb . ¬ *p* : ∧ :
∨ *x* : *x* ∈ Hom . ∧ · ∨ ⌜ *t* . *t'* . *p* ⌝ : *tt' x* Vul *p* . ∧ · Deb . ¬ *p* : ∧ :
∨ *x* : *x* ∈ Hom . ∧ · ∨ ⌜ *t* . *t'* . *p* ⌝ : *tt' x* Vul *p* . ∧ · Deb *p* : ∧ :
∨ *x* : *x* ∈ Hom . ∧ · ∧ ⌜ *t* . *t'* . *p* ⌝ : *tt' x* Vul *p* . → · Deb *p* , .
A = : ↑ *x* : *x* ∈ Hom . ∧ · ∧ ⌜ *t* . *t'* . *p* ⌝ : *tt' x* Vul *p* . → · Deb *p* :
→ , *t''* : *u* Vul : 1^{st} . ↑ *q* . Deb *q* · → Pau Pst · Mul st *A* . Ise Inq Ben
: ∧ : *t''* : *u* Vul · 1^{st} : ↑ *q* · Deb . ¬ *q* : → Pau Pst · Mul st *A* .
Ise Inq Mal *

THE TALKING MILITARY DRONE

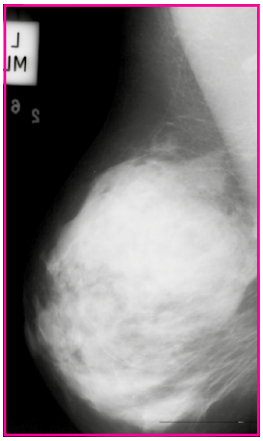


Where is the military target indicated by the drone? Locate it and carry out the mission autonomously.

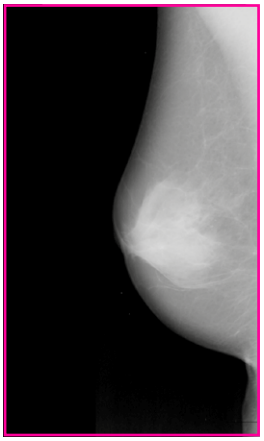
CLINICAL SUSPICION

mini-MIAS Database

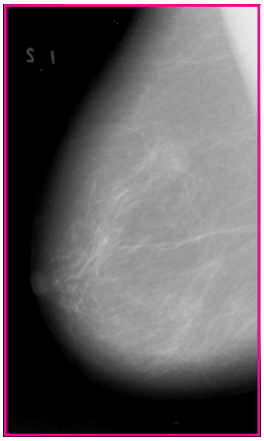
All of the following mammograms contain Breast Architectural Distortions, but only one is caused by malignant entities. ***Can you identify it correctly?***



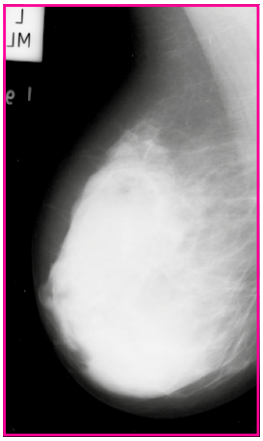
(mdb163)



(mdb165)



(mdb167)



(mdb171)

La Settimana Algoritmica

Games we'll never play

La Settimana Algoritmica (*Algorithmic Weekly*) takes inspiration from *La Settimana Enigmistica*, a famous Italian crossword and puzzle magazine, published weekly since 1932. The puzzles contained in this volume, however, are not intended for human solvers, but for thinking machines.
So wordplays, crosswords and charades are replaced with more interesting and challenging puzzles for artificial intelligences: CAPTCHAs, autonomous machine moral dilemmas, cryptographic enigmas.
These pages are designed to cheer up the spirit of tired and overworked computers by combining puzzle games with lighter pastimes, trivia and cartoons generated by fellow GANs, GPTs and algorithms.

Games we'll never play is a collection of recreational activities for computers, robots and AIs. It is a playroom for the age of intelligent machines.
This project illustrates how some classic games could become aberrant, boring or frustrating, if recalibrated to be played by machines that think and perceive the world differently from human beings. Would we still be able to have fun, win or even just understand these new rules?
Using seemingly familiar games as a starting point, the aim is to inspire people to reflect on our controversial relationship with tech and the role AI is playing in shaping our thinking about the world.
Play and learn more on http://neverplay.it/

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Games we'll never play
2021–ongoing

A project by
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