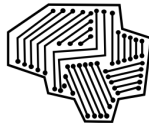


Employing Computing Techniques Towards Better User Experiences

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CENTER FOR
COMPLEXITY &
EMERGING
TECHNOLOGIES

*graphic design is
my passion.*





**Hey, my name's Jordan
& I'm an academic.**



Here's a photo of my team

**There's so much
movement in the field of
AI recently the world is
having a difficult time
adjusting..**





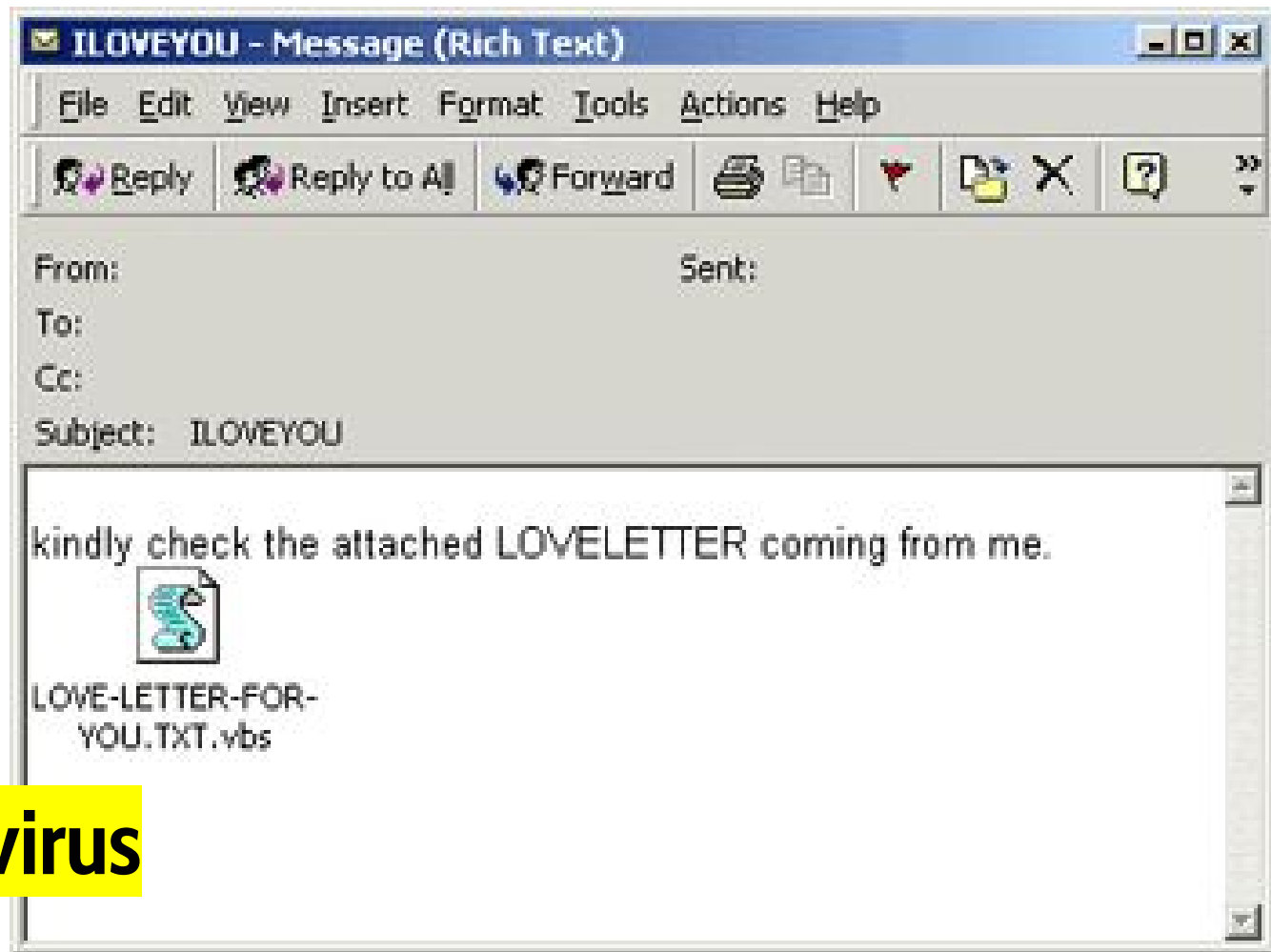
2001: A Space Odyssey

23 : 59 : 59

Dec 31 1999 Fri

ST3160815A

Y2K bug



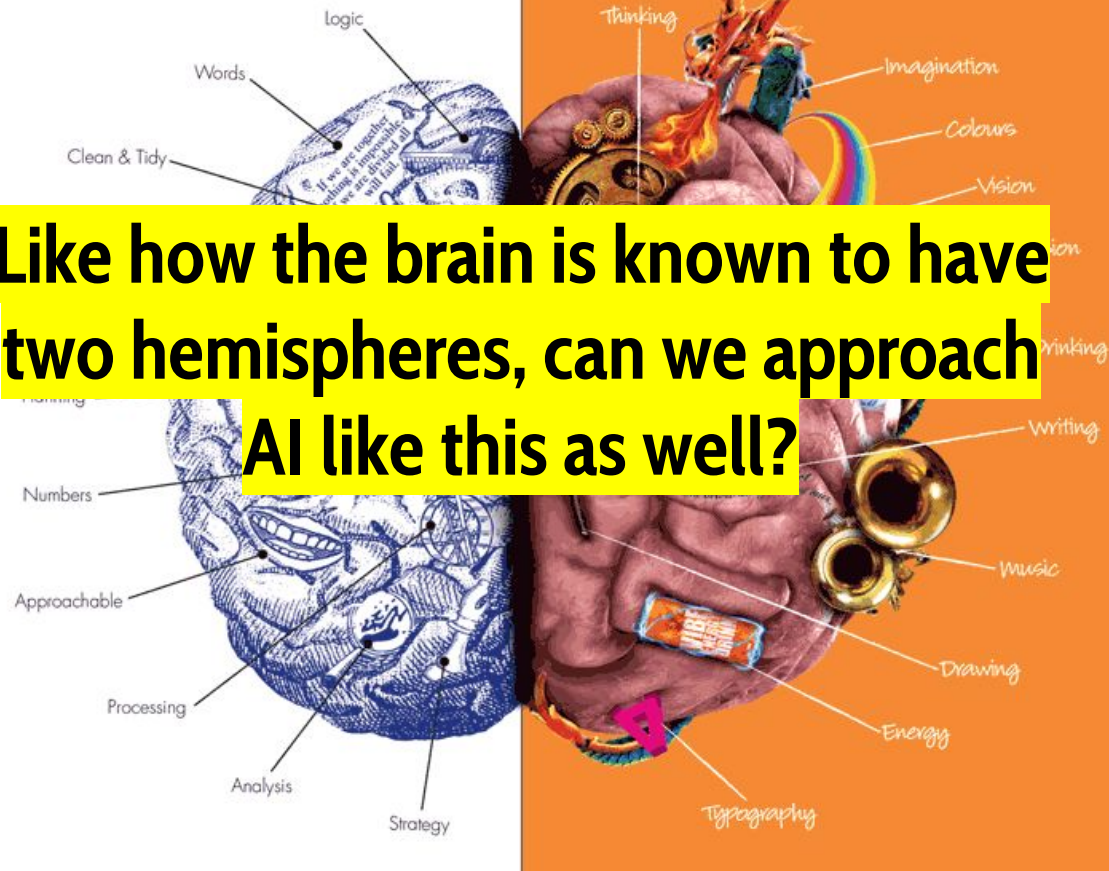
ILOVEYOU virus



**We want to use AI to
simplify repetitive tasks,
do complex computations,
give out recommendations,
save us time..**

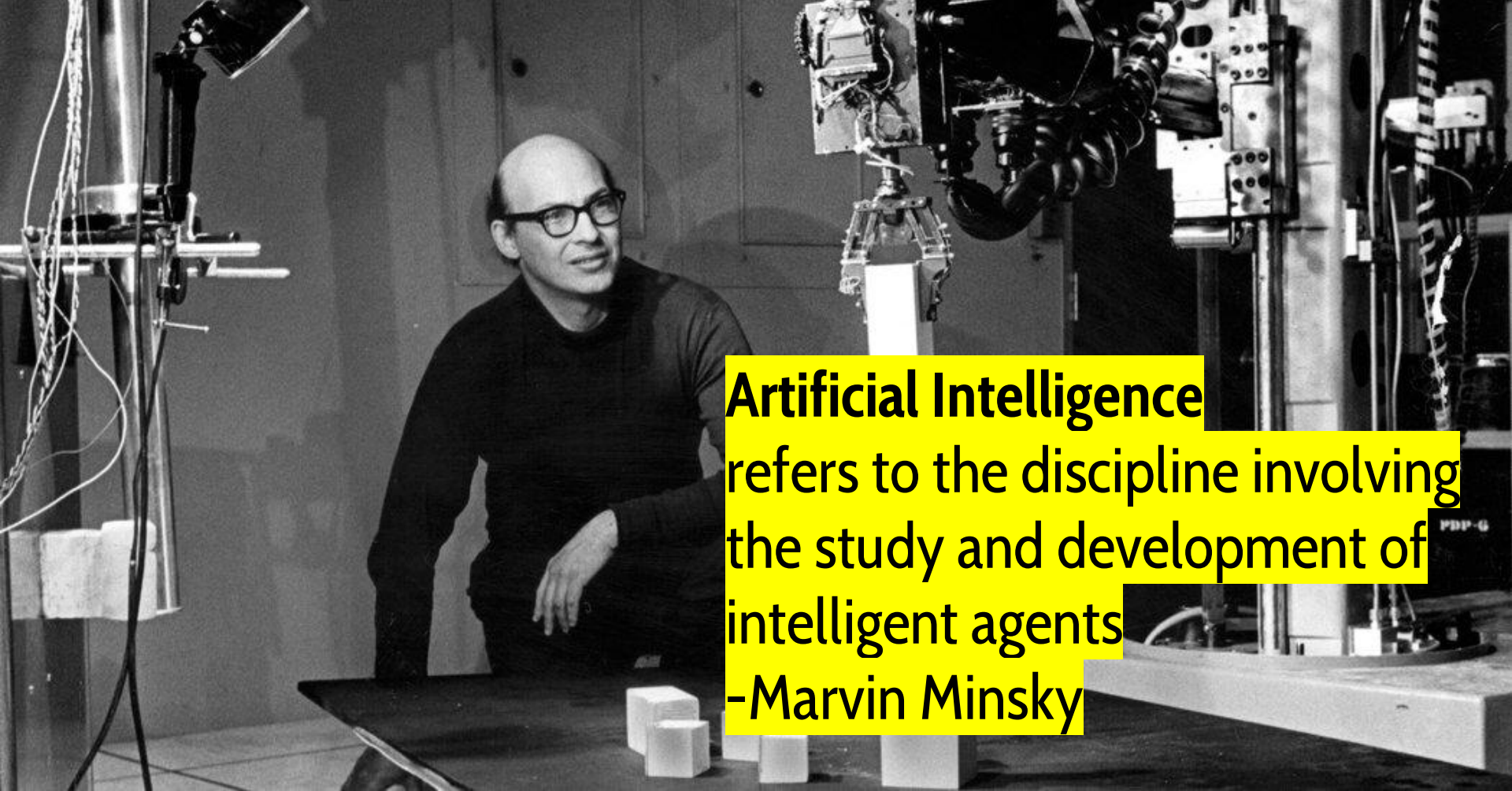
We use both sides

Like how the brain is known to have two hemispheres, can we approach AI like this as well?





Artificial Creativity: the unwanted sibling of AI



Artificial Intelligence
refers to the discipline involving
the study and development of
intelligent agents
-Marvin Minsky



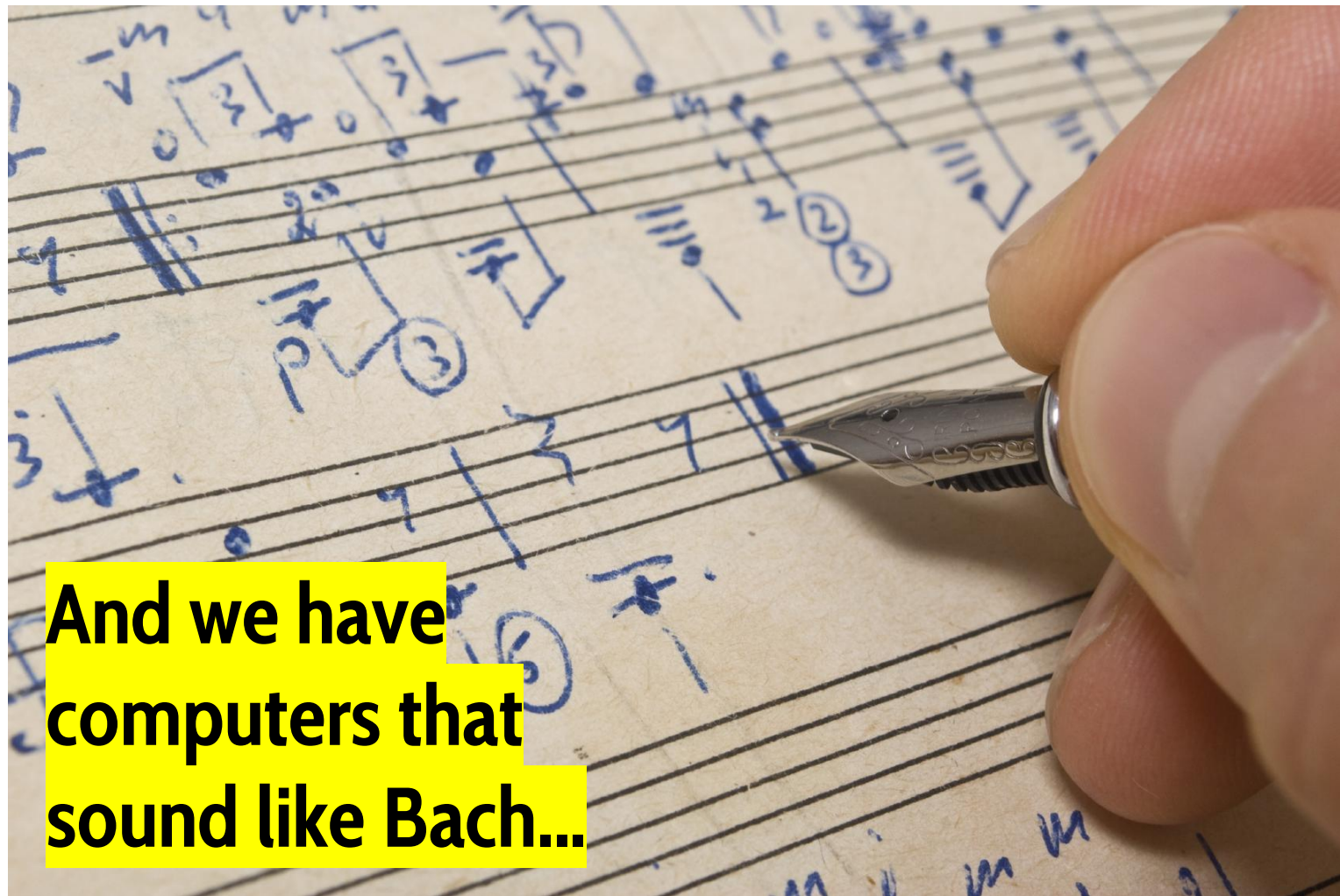
Artificial Creativity

refers the development of
computer systems that *create*
things

-Jon Grover



There's **AARON**, the computer that paints like from the Renaissance



**And we have
computers that
sound like Bach...**

<https://www.autodraw.com/>



AutoDraw

Fast drawing for everyone.

Start Drawing

Fast How-To*

<https://quickdraw.withgoogle.com/>



Can a neural network learn to recognize doodling?

Help teach it by adding your drawings to the [world's largest doodling data set](#), shared publicly to help with machine learning research.

Let's Draw!

<https://aiexperiments.withgoogle.com/sound-maker/view/>

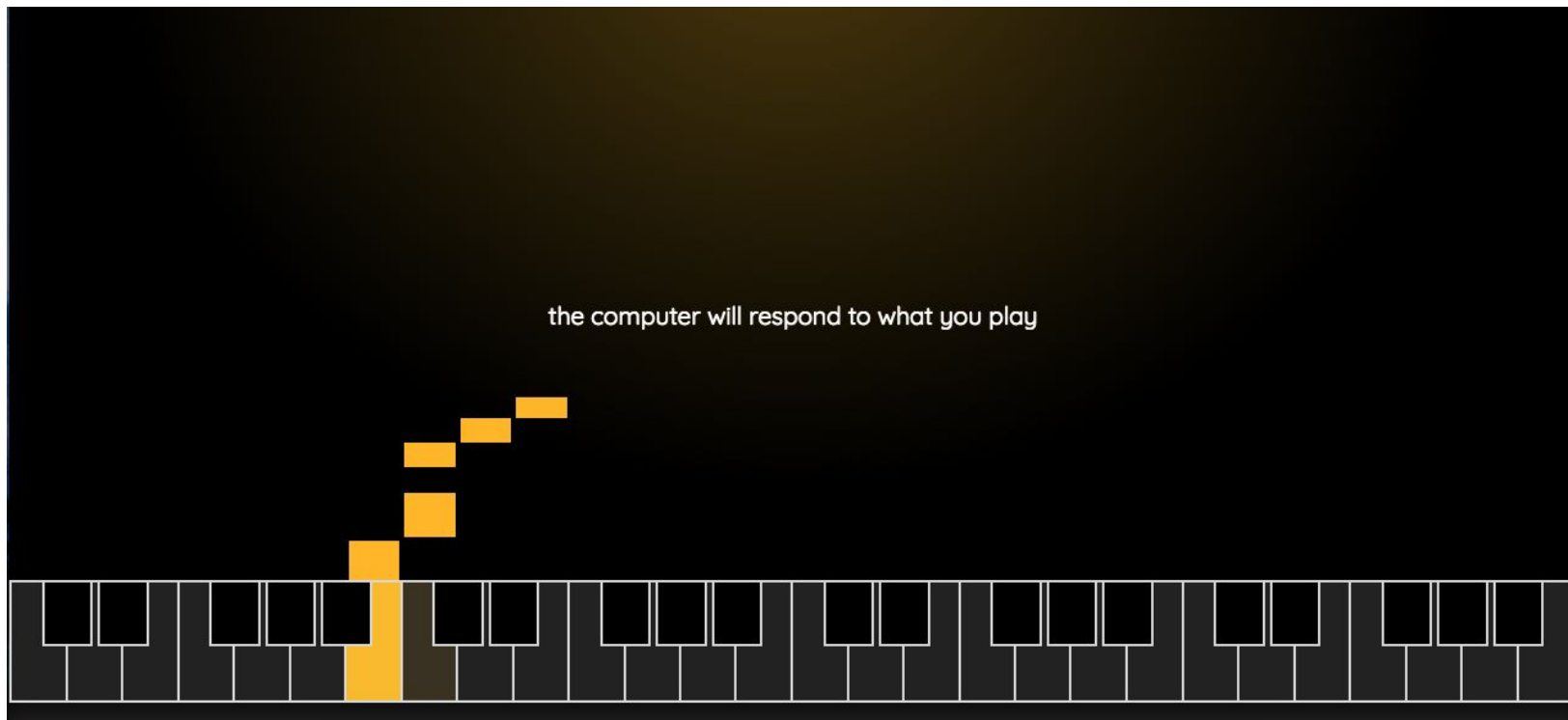
NSYNTH: SOUND MAKER

Make unusual new sounds
with machine learning.

⏮ PLAY

[How it works](#)

<https://aiexperiments.withgoogle.com/ai-duet/view/>





**With so much cool stuff we sometimes
tend to forget a few important things in
mind..**



User experience

Design



Maybe if we paid attention to what people *really felt* and needed then we can model the computer to *create* the right things

There's already AI for that...

Faces

Labels

Web

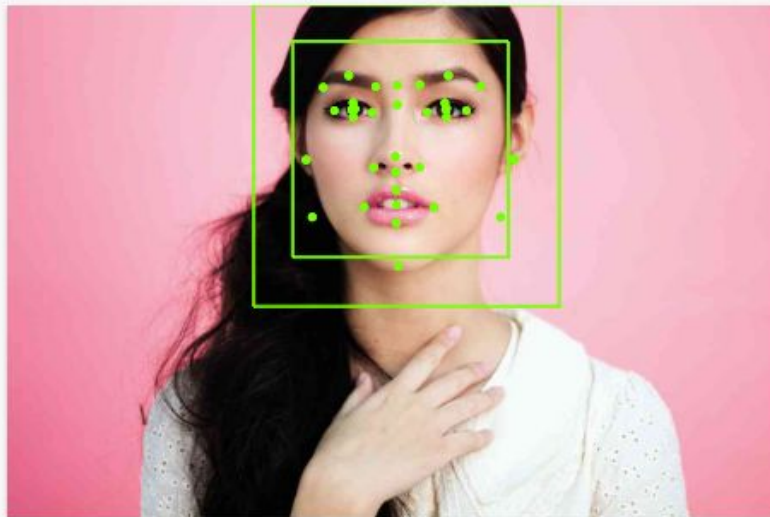
Text

Document

Properties

Safe Search

JSON



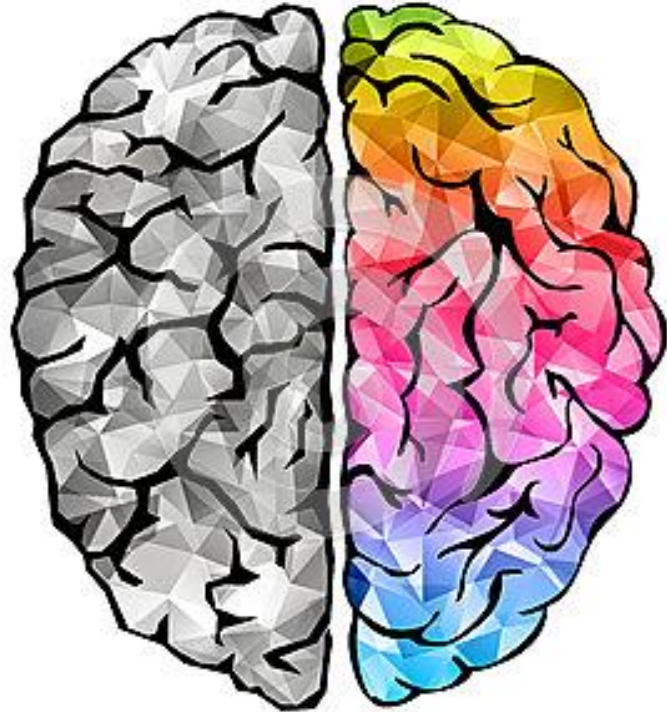
liza.jpg

Joy	■	Very Unlikely
Sorrow	■	Very Unlikely
Anger	■	Very Unlikely
Surprise	■	Very Unlikely
Exposed	■	Very Unlikely
Blurred	■	Very Unlikely
Headwear	■	Very Unlikely

Roll: 0° Tilt: 3° Pan: -6°

Confidence 100%

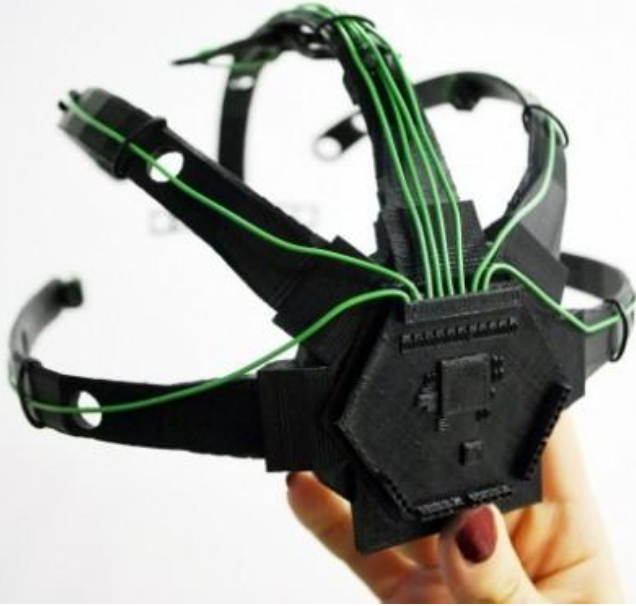
**No matter how much
AI doesn't like AC,
they seem to form a
perfect team
together... much like
our brains again**





Why dont we all
work to take
things to the *next*
level?

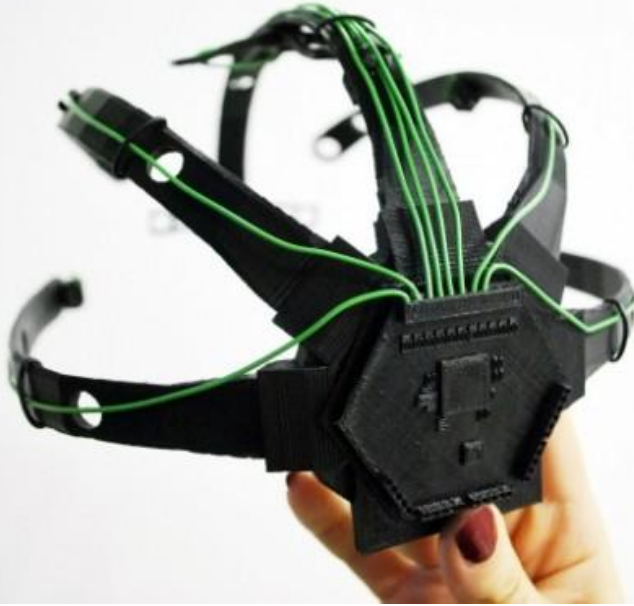
In composition and recommendation, should we use emotions and thoughts instead of tags and metadata?



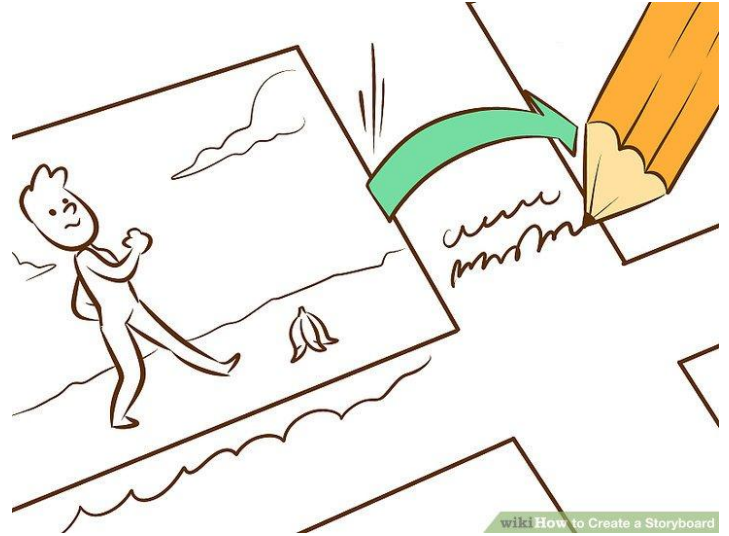
+



In video preproduction, can we use emotions to determine the right tone, feel of a certain scene?



+



Given a tone and
feel, can we
accurately measure
the right “feel”?





With too much of these developments, maybe we have somehow lost the true essence of the phrase:

“Wala yan sa pana, nasa Indian iyan”

A close-up photograph of a target with concentric rings of blue, red, and yellow. Several arrows with red fletching and black shafts are clustered in the center yellow bullseye. The text 'The real target: *better* user experiences' is overlaid on the right side of the image.

The real target: *better* user experiences

**But the right target will
only be hit by a skilled
archer. One skilled with
AI + AC.**

Can we model gestures so we can synthesize music on live performances?





Can we use EEG to measure user experiences while using viewing, reading?



Can we employ special “glasses” to analyze how we read, further preventing errors in filling up forms?

**Maybe we wont need dashcams or
mobiles for navigation with these
glasses ?**

42 mph

pothole alerts ON
license plate recognition ON

15 feet away

pothole location
(estimate)

11 feet away

license plate last seen
today 9:34 am

As inspired by Prof. Shengdong Zhao: In the end, it shouldn't be AI's or AC's replacing humans. It should be, designers and developers building the ideal human & computer teams for specific tasks. These can be key to better user experiences.



**Planes dont flap their wings to fly,
but birds dont take off from trees
either...**

**A car can run faster than a cheetah
but it can never climb a tree..**





Thank you for listening!
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images from:

http://assets.rollingstone.com/assets/2016/article/inside-the-artificial-intelligence-revolution-a-special-report-pt-2-20160309/231324/large_rect/1457449175/1401x788-AI-opener.jpg
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