

Digital Media, Society, and Culture

Angus A.A. Mol

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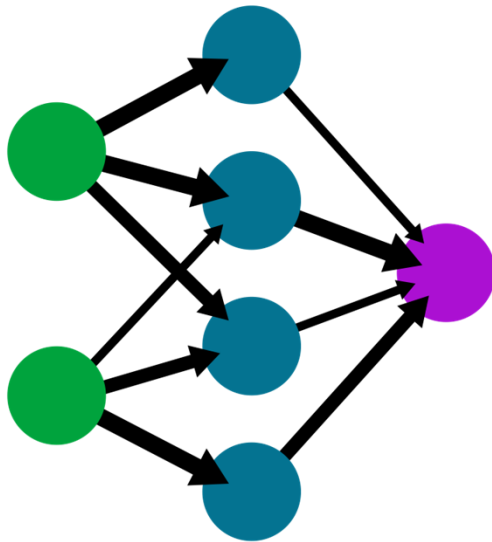
Before we start...

- Portfolio deadline (23:59, 23 December):
 - Final submission date for any portfolio content
 - Essay re-take assignment (4-2-2022)
 - Long-form essay
 - Published on course website
 - Also submit via Brightspace
- Literature Take Aways, part 2
- Presentations
 - Schedule is on Brightspace
 - Keep to the time!
 - On Campus, in the same rooms

What is AI, Machine Learning, Neural Networks, Deep Learning, [insert another technical term here]?

A simple neural network [that is already too complex for me]

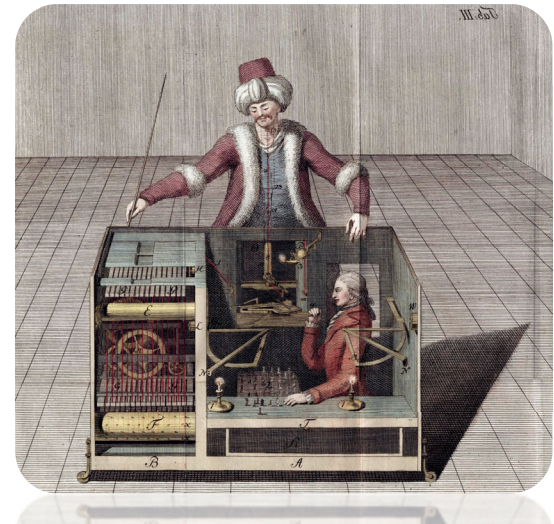
input layer hidden layer output layer



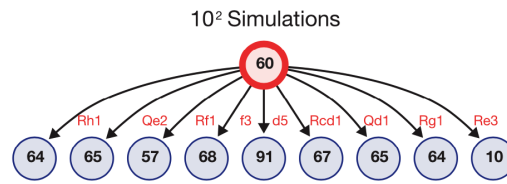
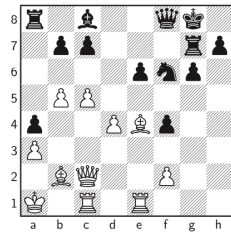
The Quest to Build Intelligent Machines!



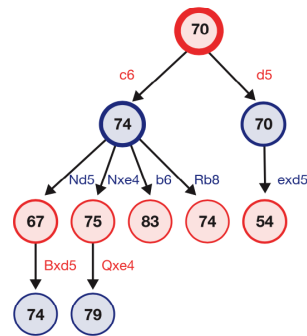
Are Computers ~~Smart~~ Having Fun?



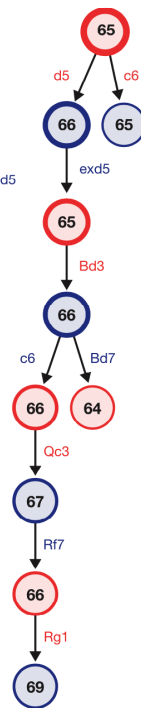
Are computers better at Chess?



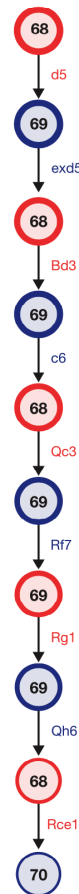
10³ Simulations



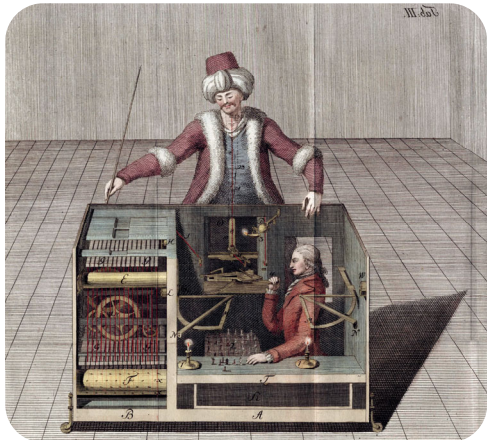
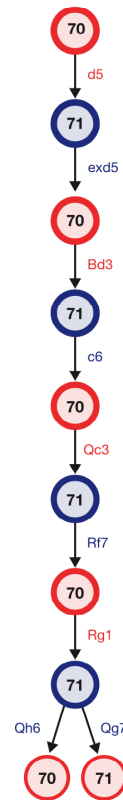
10⁴ Simulations



10⁵ Simulations



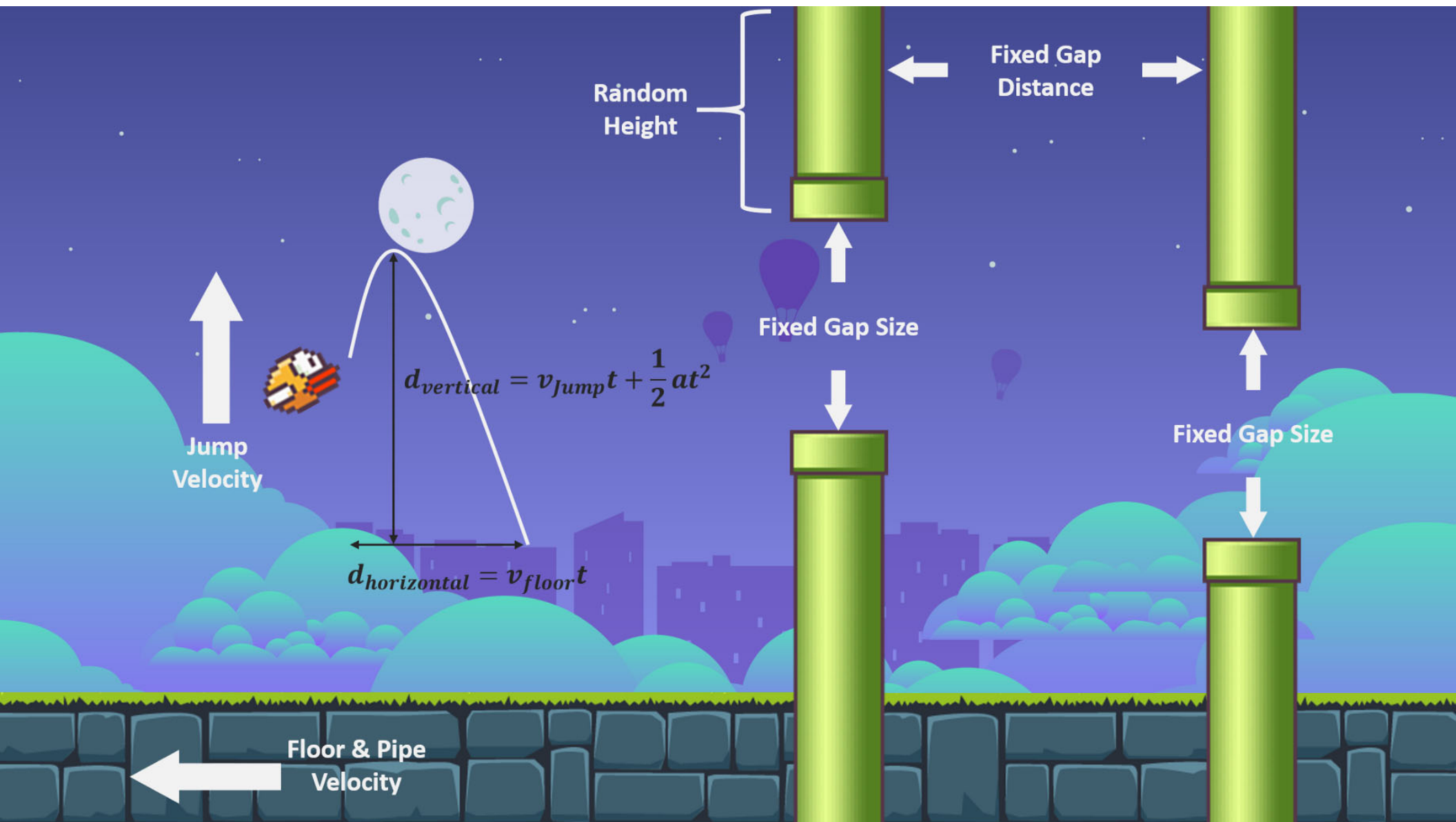
10⁶ Simulations



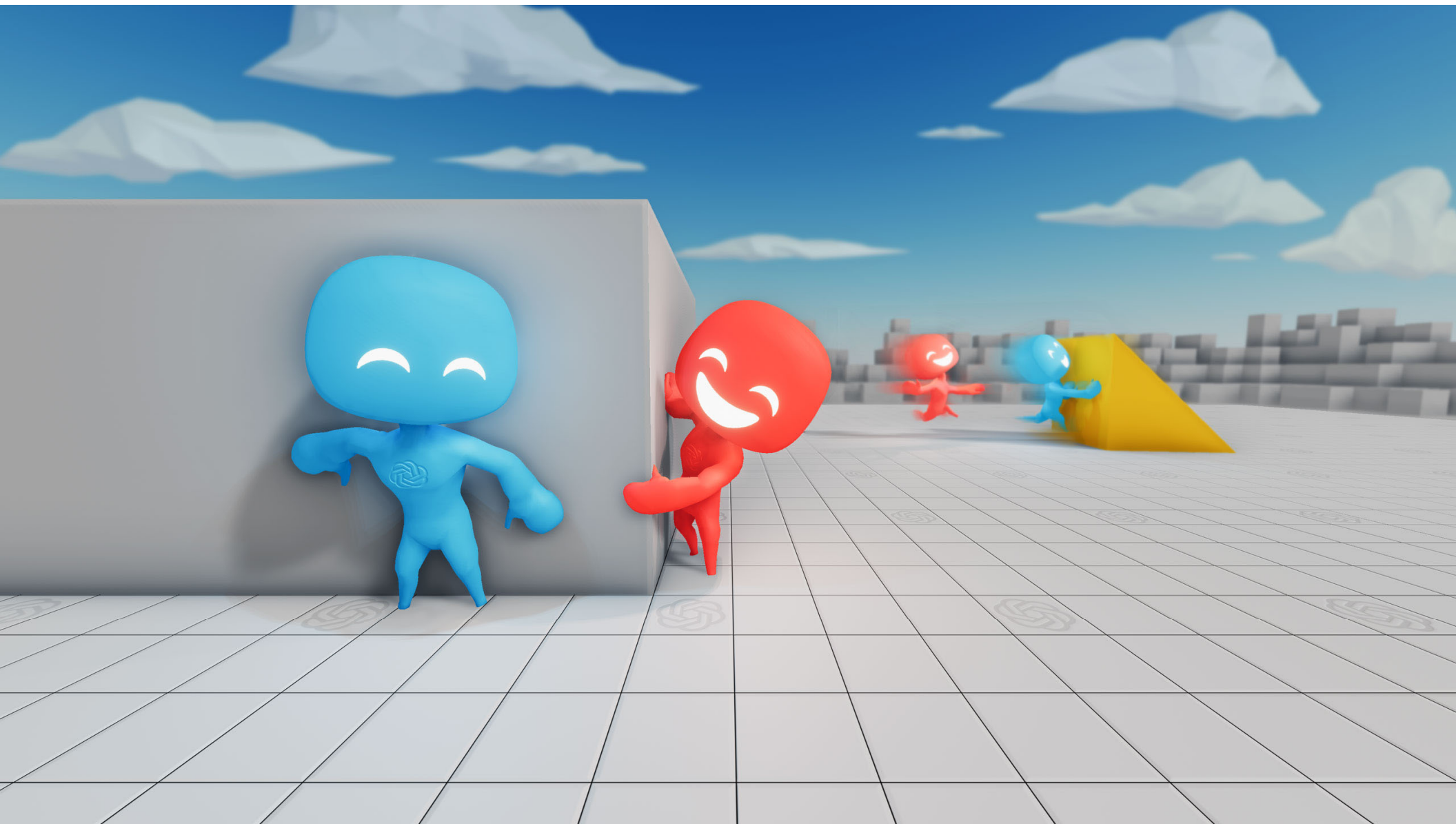
Are computers better at Flappy Bird?

FLAPPY BIRD





Are computers better at having fun?



Are computers better at writing?

Are computers better at making music?

Are computers better at making visual art?

Are computers better at talking?

Are computers better at dreaming?

Are computers better at trading stocks (stonks!)?

Are computers better at thinking?

Are computers better?

It depends...

- On the domain and definition of qualifications
- On what input we give to computers (data)
- On what output we ask from computers (objective function)
- On our *human(ities)* questions, desires, and fears!

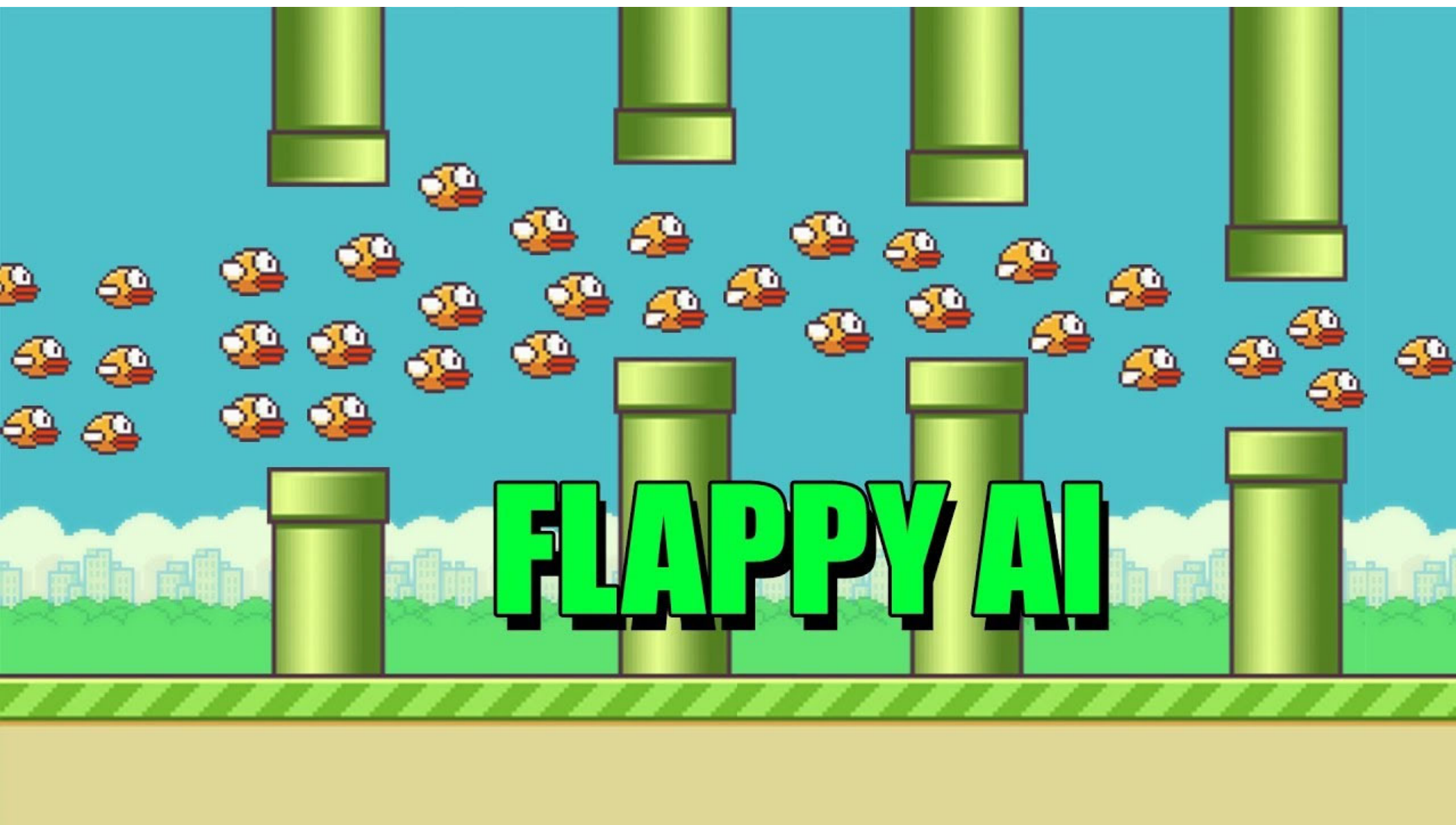


Will AI
take over
our world?

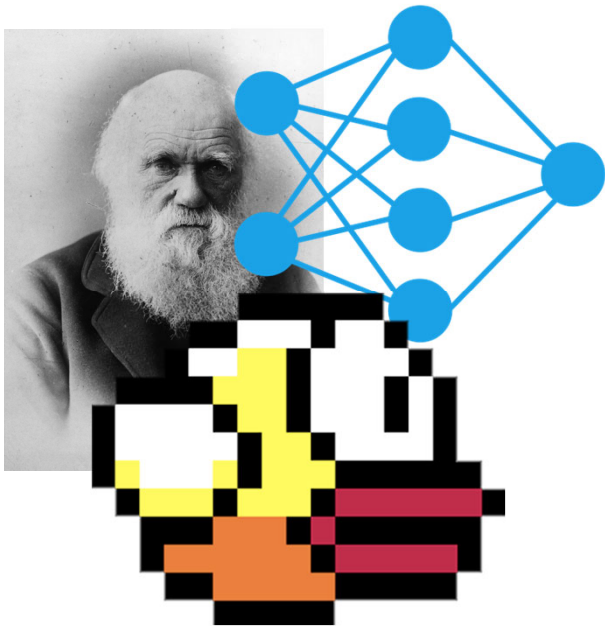




Will we make
AI suffer?



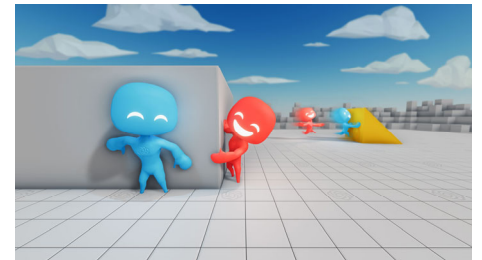
AI is (part of) the digital future, but it is rooted in our past cultures.



Neuro**evolution** of augmenting
topologies (NEAT) plays Flappy Bird



A piece from the 12th century Lewis
chess set.



Hide and Seek

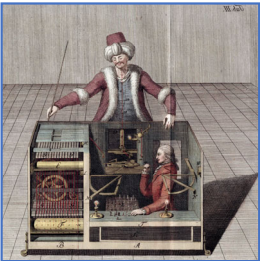


The Digital & Humanity: Better Together



Digital Media, Technology, Society, and Culture

Artificial Intelligence



Cyborgs



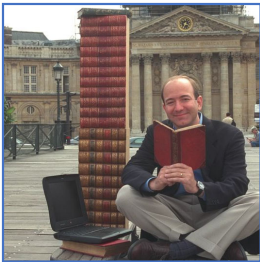
Metaverse



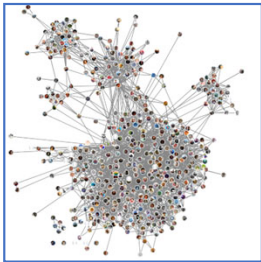
Digital Playgrounds



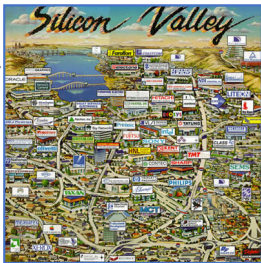
Entangled Economies



Networks



Silicon Valley



The World Brain



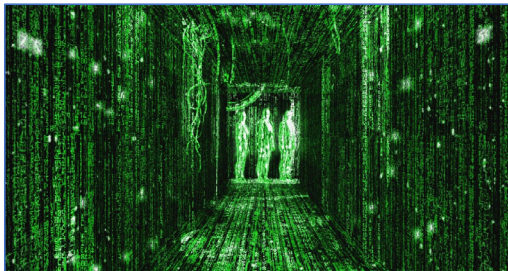
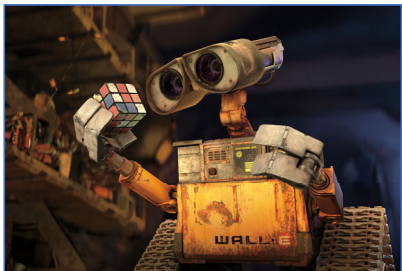
Human Technologies



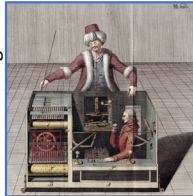
What is The Digital



So... what's next?



Artificial Intelligence



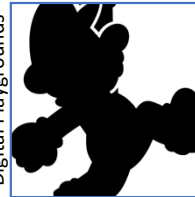
Cyborgs



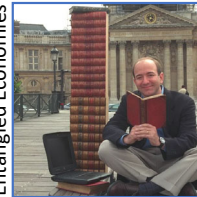
Metaverse



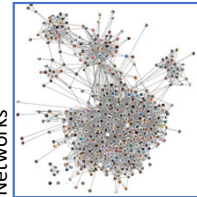
Digital Playgrounds



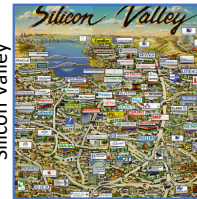
Entangled Economies



Networks



Silicon Valley



Ego Online



What is The Digital



The World Brain



Human Technologies



The Future is Up to You!