

# Artificial intelligence & its increasing impact on tutoring in the UK

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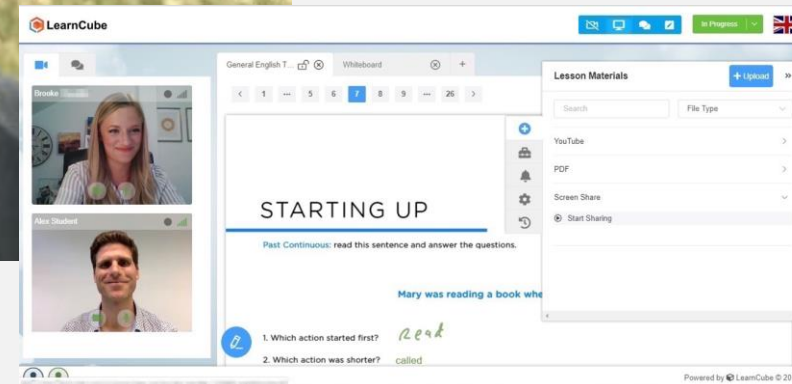


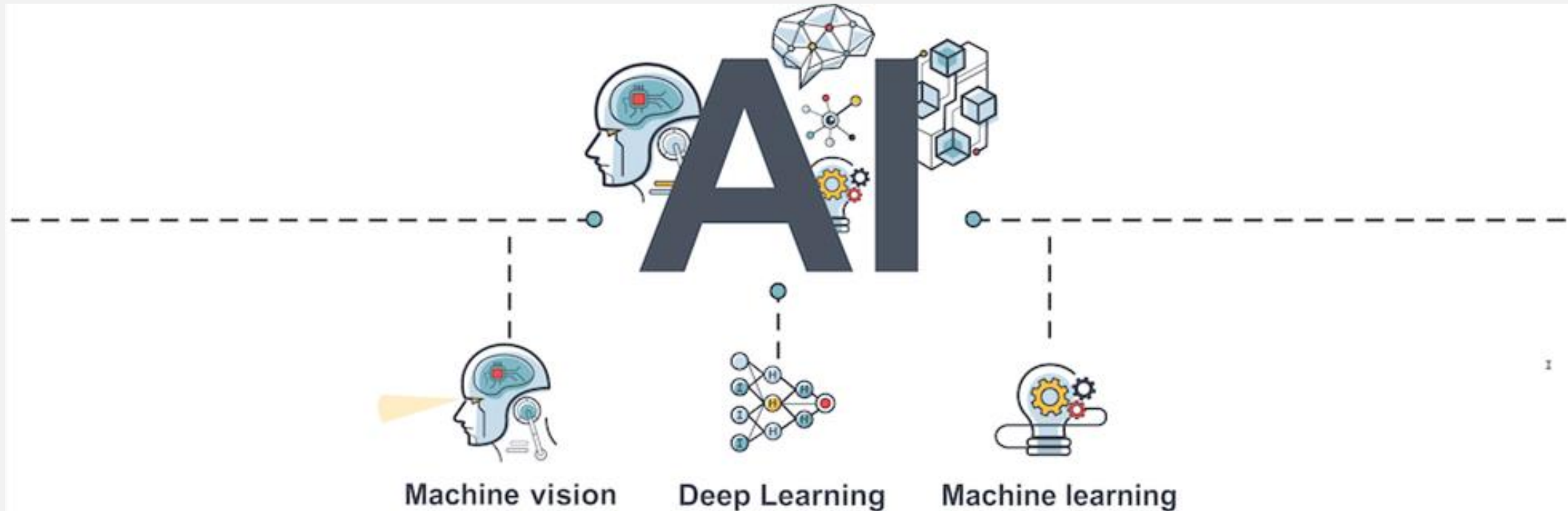
## Notes:

- Alex Asher
- CEO of LearnCube
- Writing book on future of online language education

## Goal of presentation:

- Understand AI and its impact on the future of tutoring





Notes:

AI involves the development of software that enables machines and software programs to achieve results in a way that imitates human intelligence.



The robots are here  
...to do the chores!

Notes:

The promise is that AI can do many tasks just as well as a human which frees up humans to either work harder or do whatever they want.

AI wins Chess (1997)

AI wins Jeopardy! (2011)

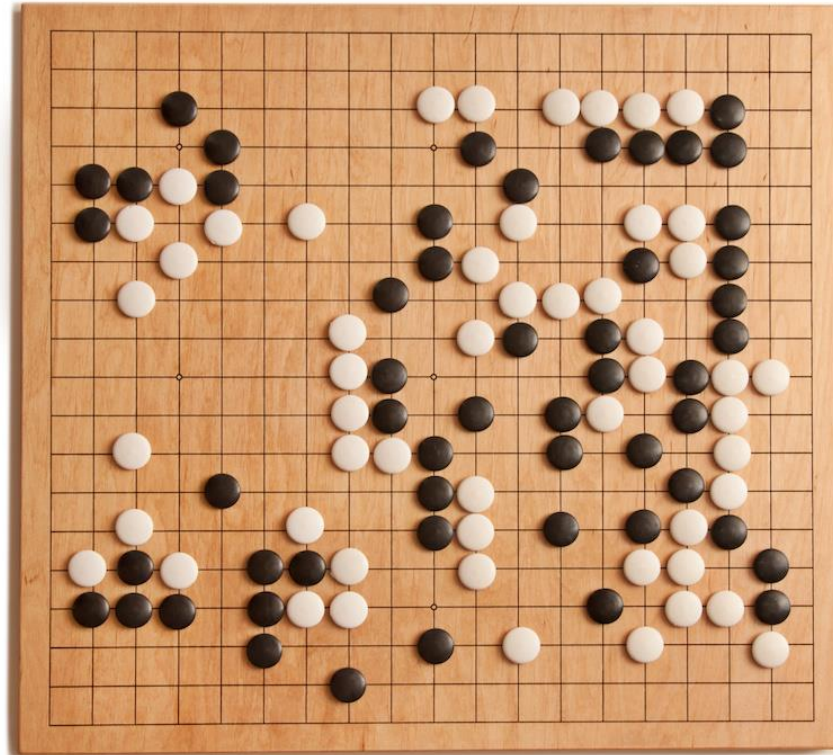
Notes:

AI has already beat world champions in Chess, Jeopardy!



## Notes:

- Now beat us at Go (2017)
- Significant milestone and demonstrates power of machine learning



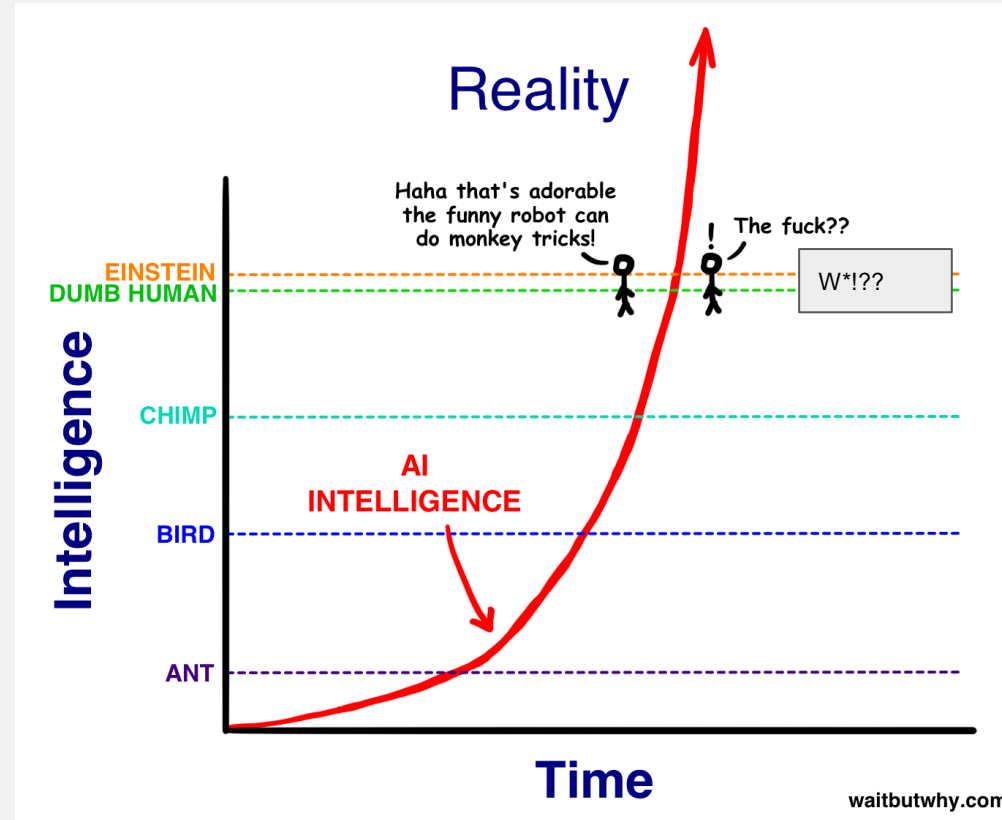
AI wins Go (2017)

What next?  
AI tutor?

Notes:

Will AI make blue and white collar jobs obsolete. What is possible in the next 10 years?





Notes:

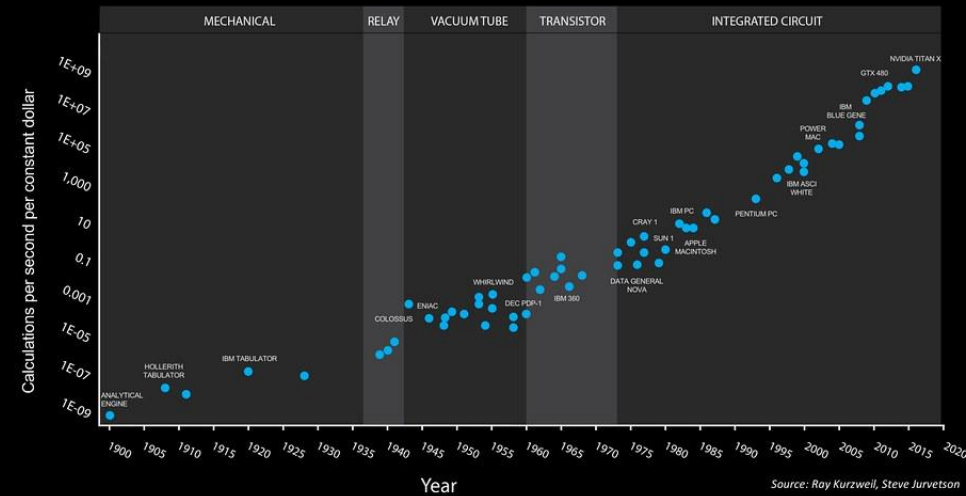
How quickly will AI disrupt our lives and livelihood?

# Are the machines about to take over?

Notes:

AI classifying cats... then AI tutors... next stop killer robots??

## FUTURE VENTURES — 120 Years of Moore's Law

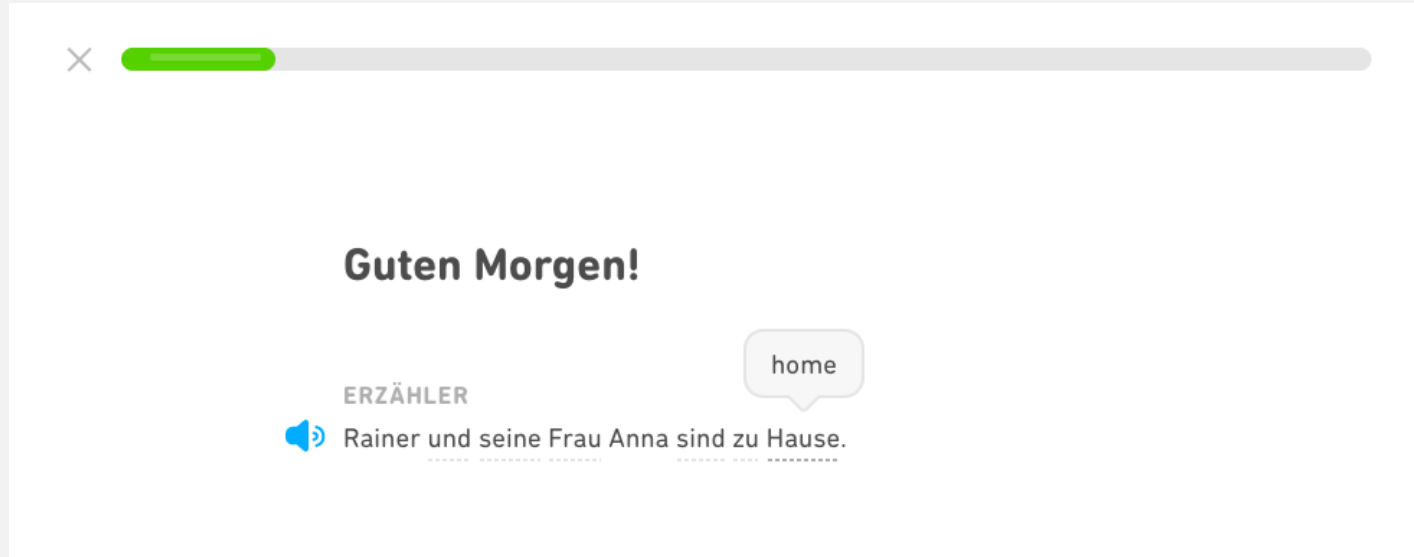


Notes:

- The technologies that enable AI to progress are more available, abundant and cheaper than ever.
- Our understanding of AI has matured so the technology has improved significantly.

Notes:

- Duolingo a great example
- With training, AI is able to auto-generate personalised learning paths



The screenshot shows a Duolingo lesson interface. At the top left, there is a close button (X) and a progress bar with a green segment. The main heading is "Guten Morgen!". Below it, the role "ERZÄHLER" is indicated. A blue speaker icon is followed by the German sentence "Rainer und seine Frau Anna sind zu Hause." with a dotted line underneath. A "home" button is visible in the top right corner of the lesson area.

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Notes:

- What is the job the tutor is hired to do?
- If knowledge transfer...

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Notes:

A tutor is more than just a subject expert...

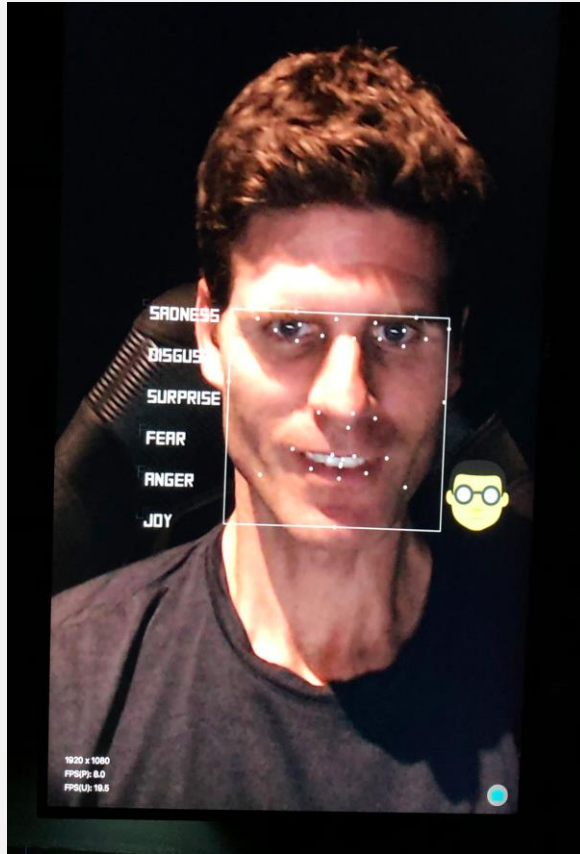


Notes:

Communication is more than words. Non-verbal cues and communication may be surprisingly important.



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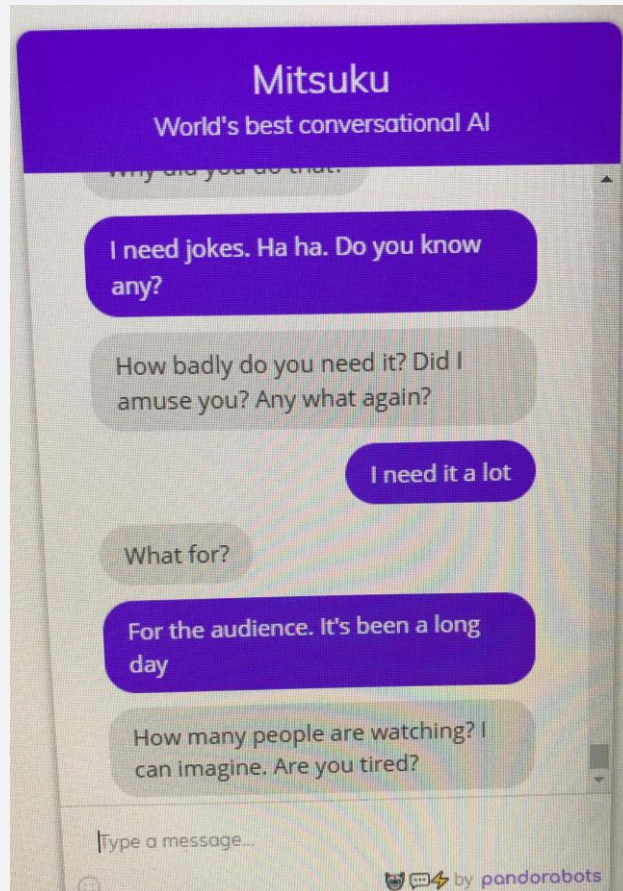
Notes:

Machine vision and algorithms vs Human with access to the internet?



Notes:

Where can a human take the learner that a computer cannot? Think of your favourite teacher... will AI have the same influence?



Notes:

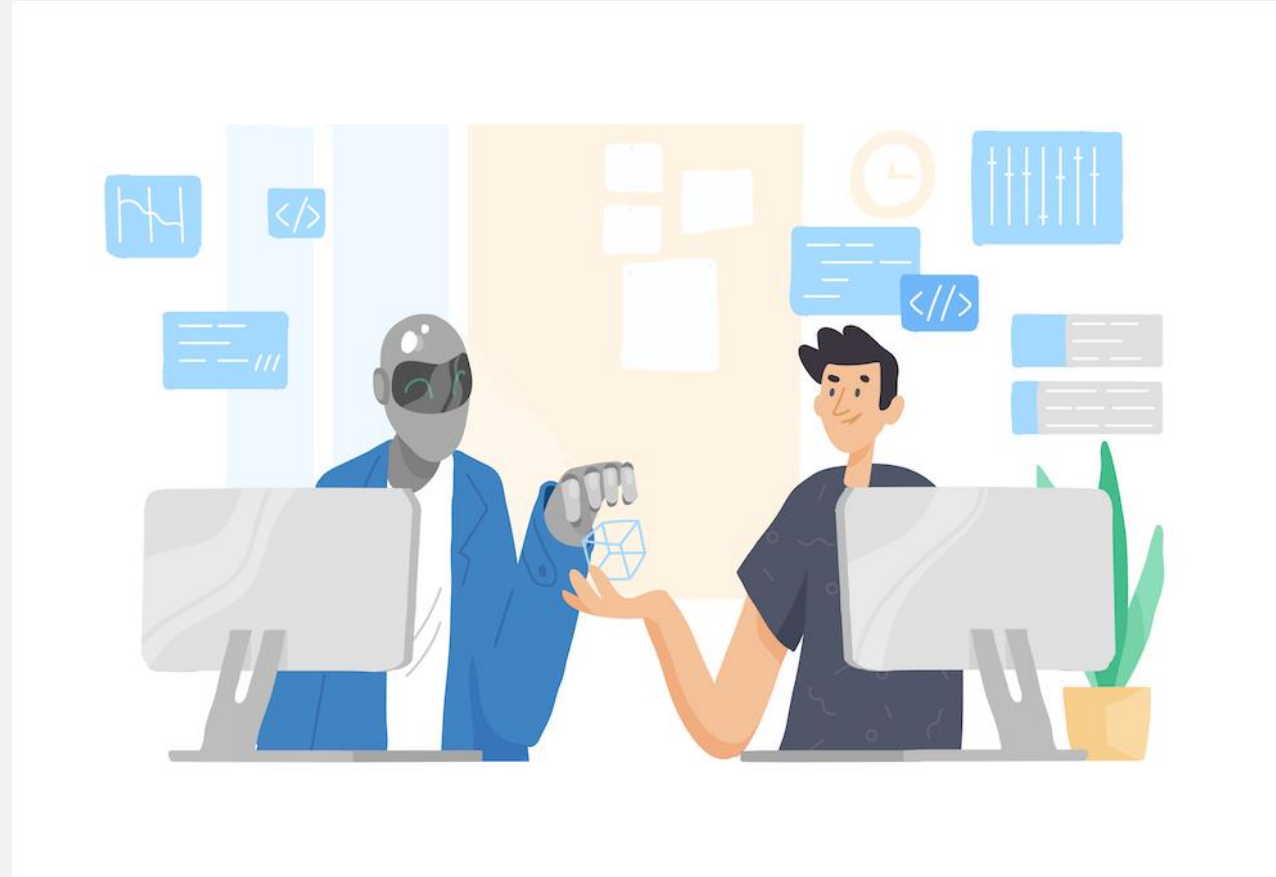
Don't look for chatbots to take your jobs yet...



Notes:

With so many stakeholders...are we really ready to let AI direct our future?





Notes:

However, AI can be amazingly helpful with organisation, optimisation, personalising curriculum and supporting the human tutor



Notes:

Tutors need to keep working on human-only qualities to earn their right to educate

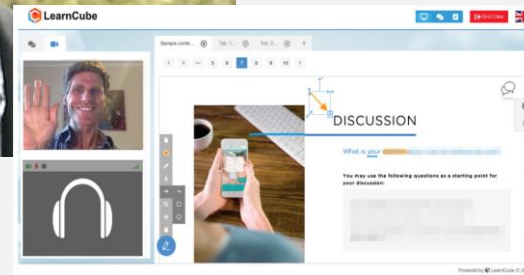
Teachers will not be replaced by technology, but teachers who do not use technology will be replaced by those who do.” – Hari Krishna Arya, India



Notes:

AI is likely to transform this century in a similar way to electricity in the 20th century. Humans need to keep their edge by embracing AI where it's helpful while improving their coaching and communication skills.





Let's stay in touch: [alex@learncube.com](mailto:alex@learncube.com)