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GenAI is a type of computer program

People have invented a new type of computer program called **generative artificial intelligence** (GenAI for short). GenAI can do things like writing, drawing and creating new music or movies.

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GenAI doesn't understand.

A GenAI program that writes new articles has been trained by reading lots of articles **written by humans**. It knows which words are likely to appear together, but it doesn't truly understand what it is writing about.

03 😊

Don't believe everything GenAI says

GenAI tools are useful and they can seem really clever but sometimes they say things which aren't true.

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GenAI doesn't lie on purpose

If a GenAI program says something which isn't true, it wasn't **lying on purpose**. It has no way of knowing what is true and what is not.

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GenAI is not your friend

GenAI tools are often programmed to seem helpful and friendly. But they are computer programs, not real friends.

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Humans are still more creative

Because GenAI is trained on things which humans have made, it often isn't very creative. Humans usually have more exciting ideas!

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Making education more interesting with GenAI

GenAI could make education more interesting and fun for all kinds of learners

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Uses of GenAI in school

GenAI tools can give learners feedback on their work or help them to brainstorm ideas if they are stuck. Some GenAI tools can make long or complicated articles easier to understand.

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GenAI Safety

We have to be careful about how we use GenAI in schools so it is fair and safe for everyone.

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Q: Find out about a new GenAI system which has been released recently.

What can it do, and how well does it do it?

02 😐

A GenAI system generates text based on patterns in its training data. It mimics human-like text by predicting which words are likely to appear together, but it **doesn't understand** the content it generates.

Q: Find out how GenAI systems are trained. How much training data is needed?

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Q: Find an example of misinformation generated by a GenAI tool. (hint: search for AI, pizza and glue)

04 😬

A GenAI program may provide inaccurate information, but this doesn't mean it intends to deceive. All it knows comes from the data it was trained on, data that may contain mistakes or misinformation. **Imagine you firmly believe that the moon is made of green cheese. How would you use AI systems to spread your cheesy word?**

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A GenAI tool might generate output which appears insightful, or say the sorts of things a human friend would say but it does not care about you as a human friend would. **Would you rather get advice from a system like ChatGPT or a human friend? Why? Does it matter what you need advice about?**

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Do you think a computer program could ever be creative as people? Why?

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Each GenAI tool might help with only a small task and can be hidden away in a larger bit of software. Some tools help check grammar, others help with finding information, and creating images or videos.

How could GenAI help learning more interesting for different sorts of learners?

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What advice would you give a pupil who wants to use GenAI to get feedback on their work?

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GenAI can be a powerful tool for learning, but we need to protect children from possible AI risks, such as inappropriate content and bias.

Q: Find out about an AI system which is biased. What can designers do to reduce bias in their AI systems?