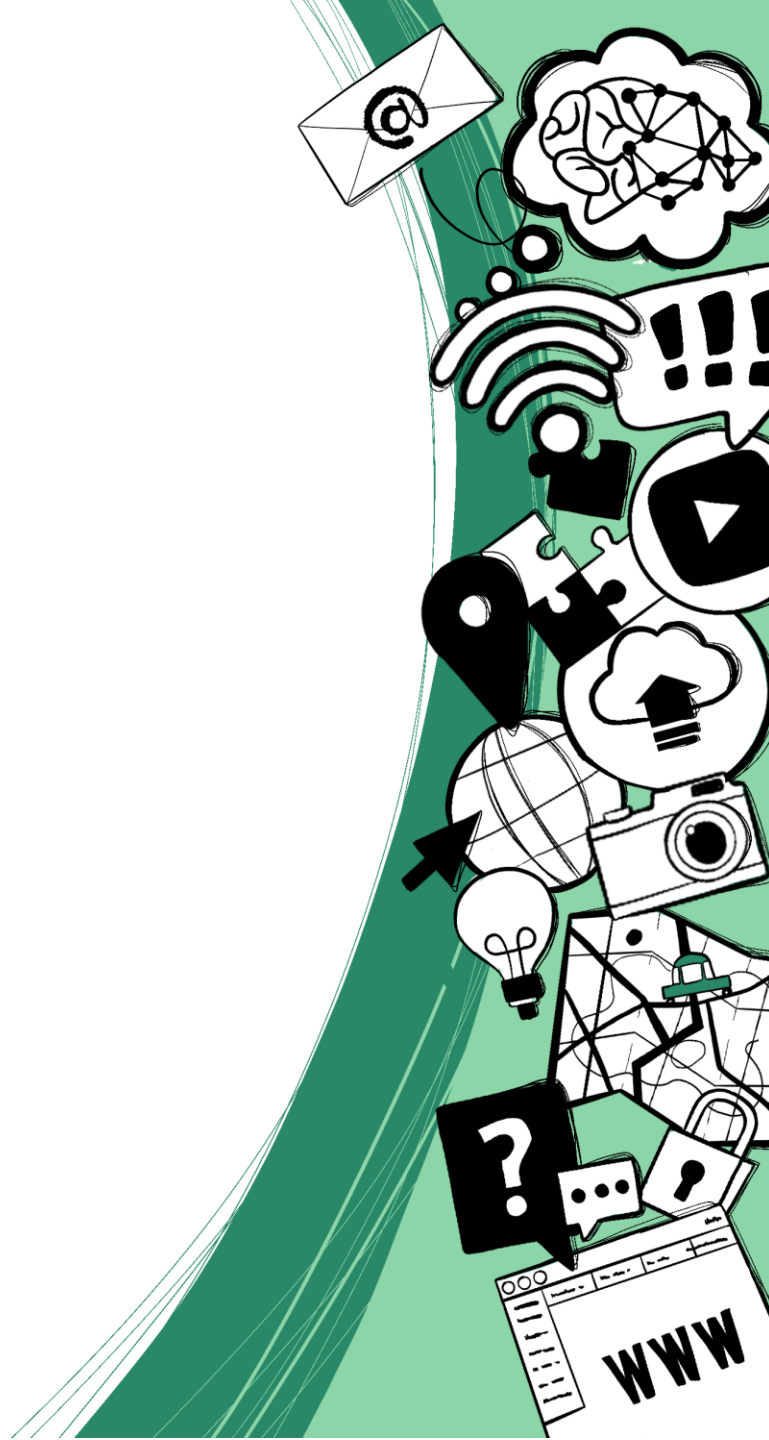


Reinforcement Learning Quiz



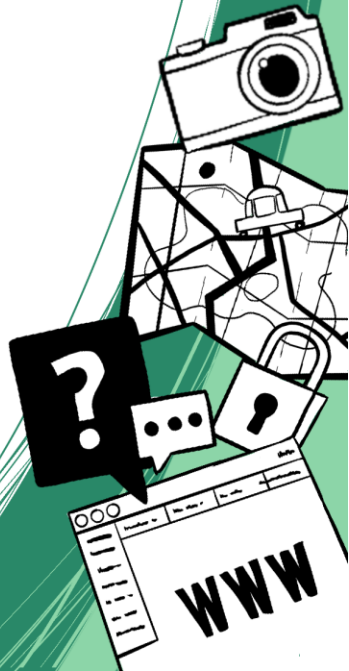
True or False?





Training

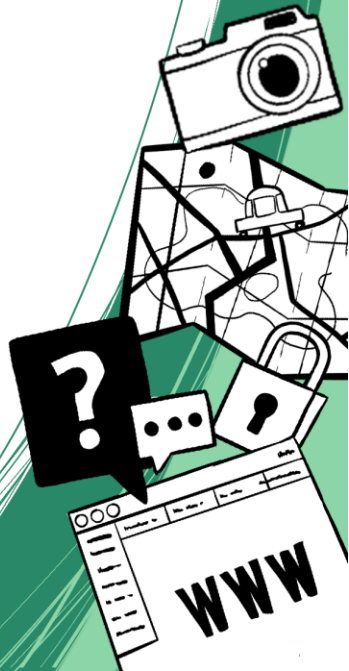
1. Training is done by **demonstrating** correct behaviour until the AI is able to **replicate** it reliably.





Training

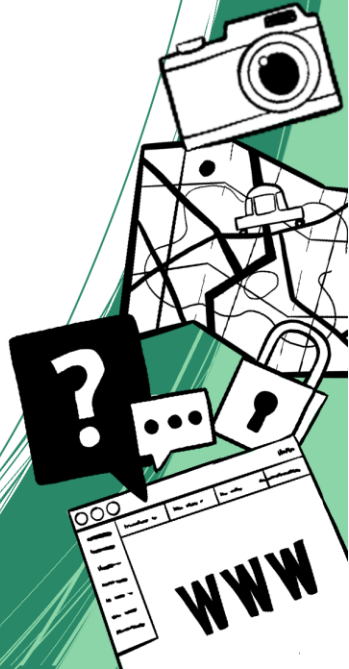
2. Training is done by **rewarding** the AI for **successful** actions or by **penalizing** the AI for **unsuccessful** actions.





Training

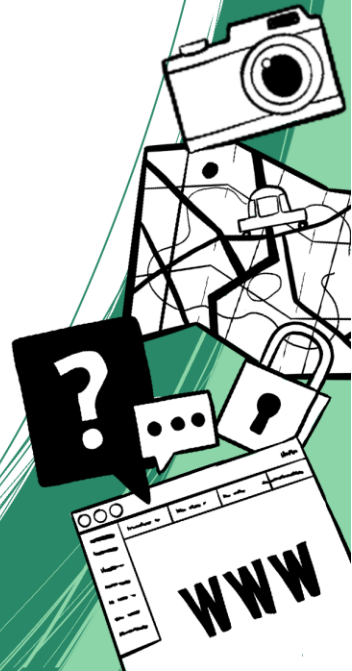
3. **At the start** of the training, the AI performs **random actions**.





Terms

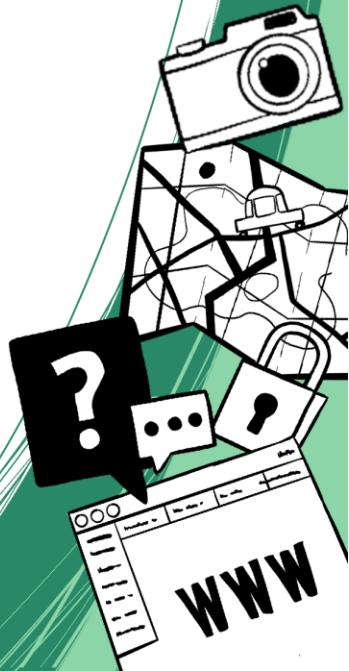
4. An **Agent** is an **already trained AI** that helps during **training** by demonstrating **correct behaviour**.





Terms

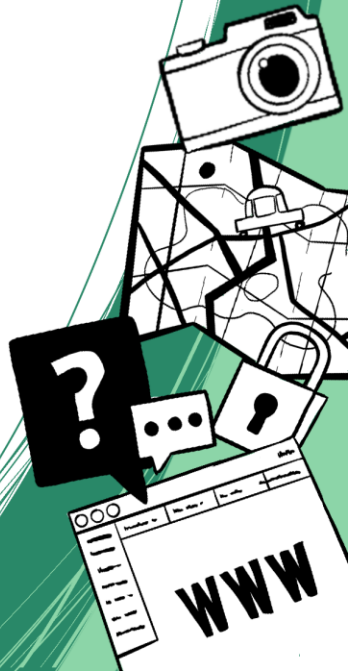
5. The **Environment** is often **simulated** which enables the AI to play **millions of games** in a short amount of time.





Terms

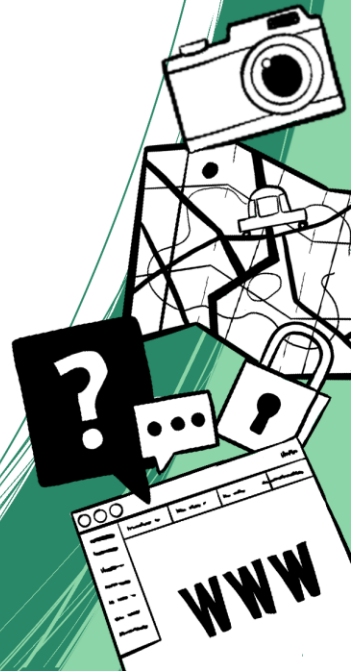
6. A **Reward** is given by **providing more energy** to the **Computer** running the AI.





Applications

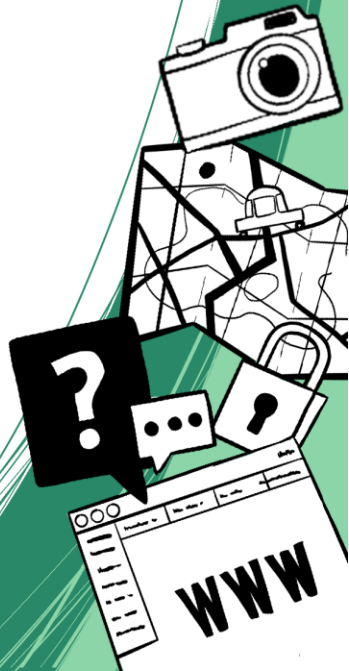
7. **Text and Speech recognition systems** are trained using **Reinforcement Learning**.





Applications

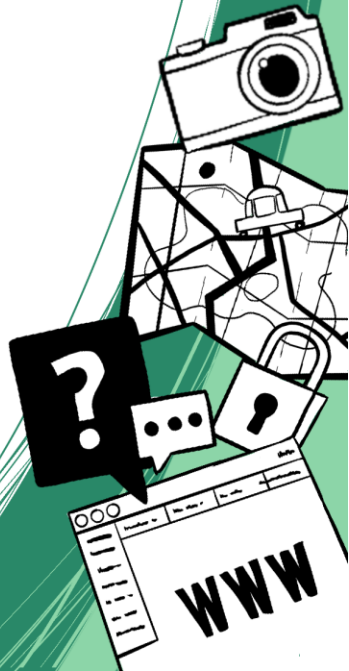
8. There already are AIs that are **trained** by **playing millions of games** against themselves, that can **win** against the **best human players**.





Applications

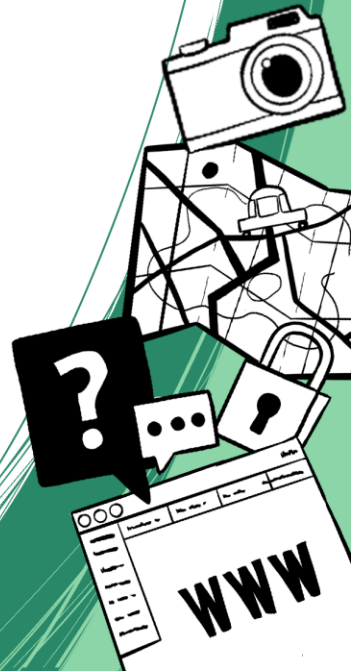
9. **Reinforcement Learning** can help **adapt programs** to the **specific needs or preferences** of a **user**.





Possibilities & Limitations

10. **Given enough time**, an AI using **Reinforcement Learning** will **always** find the **perfect solution**.



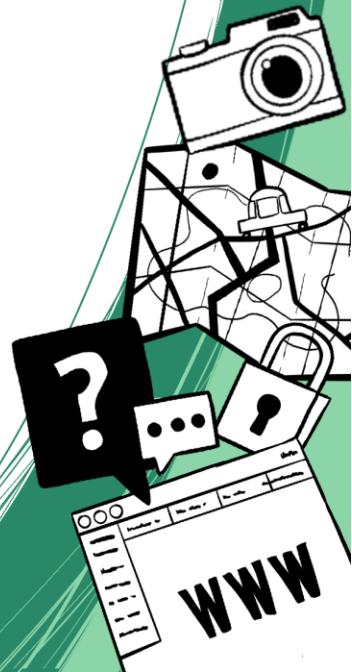
Results





Training

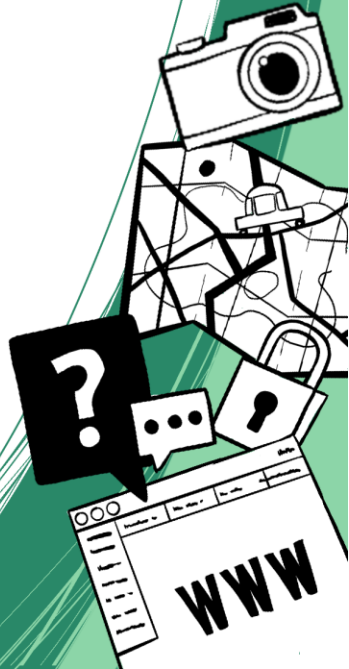
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Training

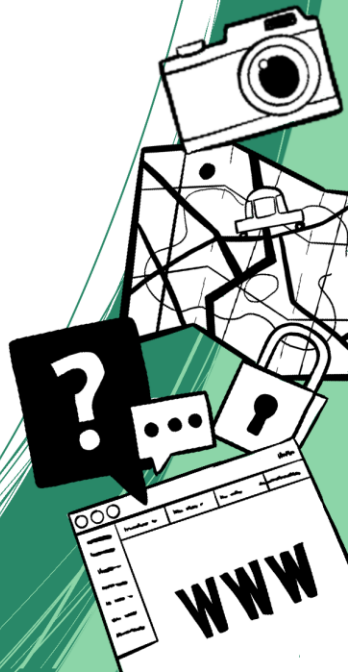
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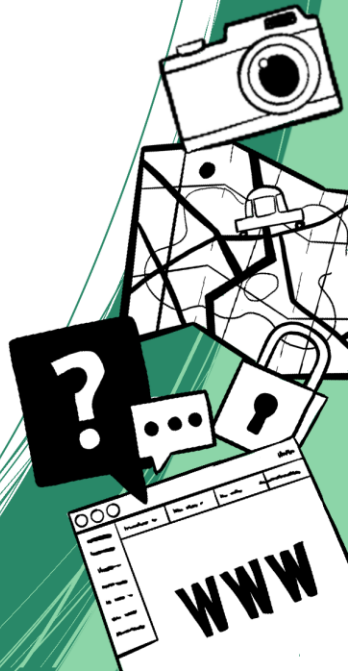
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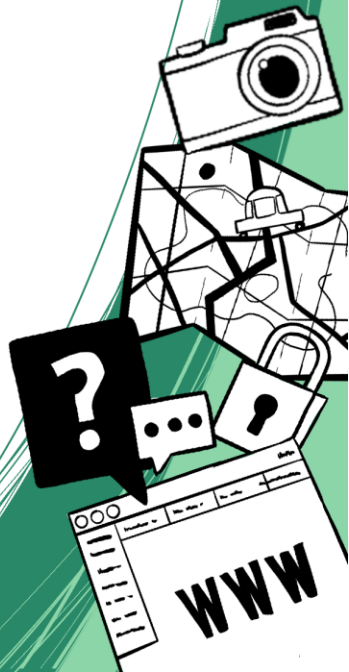
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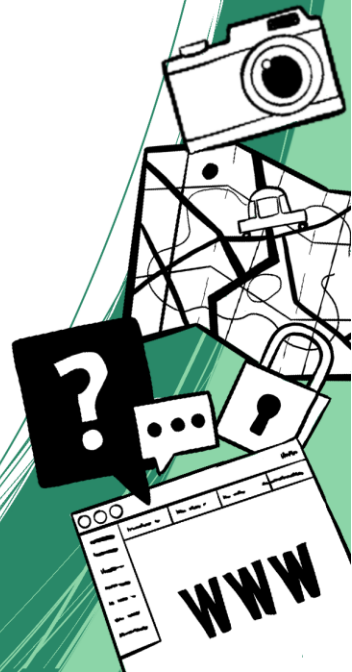
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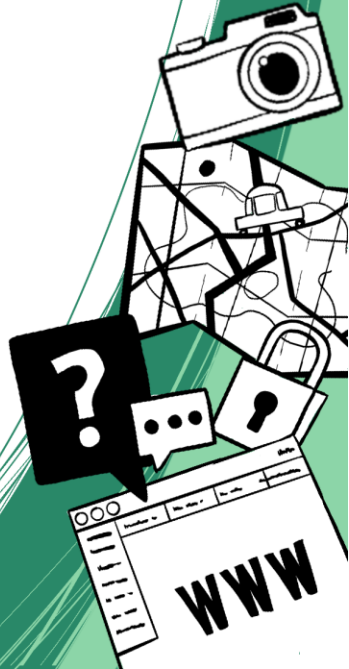
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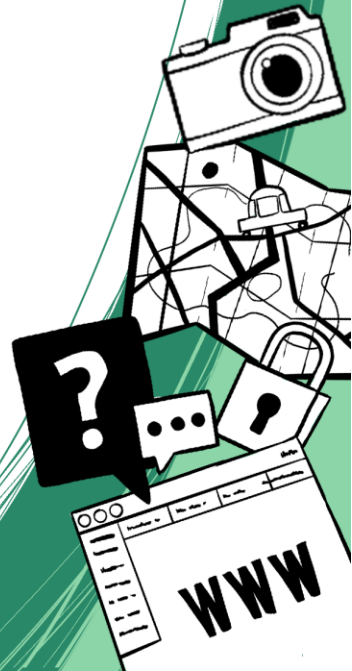
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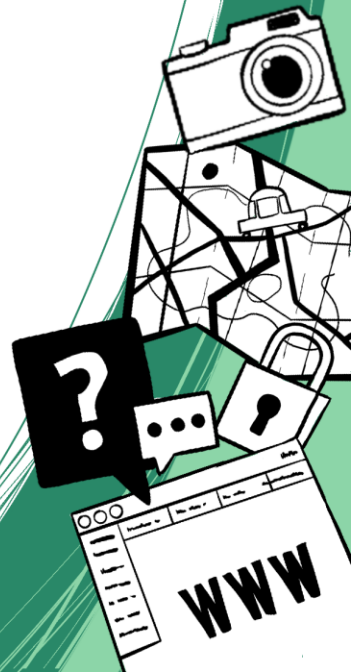
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Final Score

How many questions have you answered correctly?



? / 10

