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Transformer “ ”

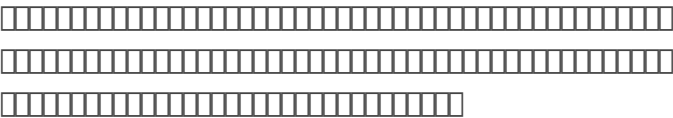
- 1. Attention dot
- 2. “ ”
- 3. RNN transformer

CoT Chain of Thought

- 1. CoT “ ” attention
- 2. CoT LLM
- 3. LLM
- 4. CoT



Khaoutar El Maghraoui test-time compute AI OpenAI o1



- 1. “ ”
- 2. “Attention” token token
- 3. “multi-Head”

- 1. 1. LLM
- 1. Phi-2 34% 85%
- 2. 100 ChatGPT Reddit 48% 73%
- 3.
- 4. mnist 90% 100%
- 2. /
- 2.
- 3. /
- 1.
- 4.
- 1. CoT RL
- 2.
- 5.
- 1.
- 2.

- 1.
- 2.

- 1.

- 1. 
  - 1.
- 2.
- 3.
- 4. 
  - 1.  KV cache kv



- 1.
- 2.