












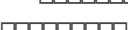











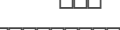









# CoT &

-- “ ”














 o1  
  


Chain of Thought  
o1

- 1. 
- 2. 
  - 1. 
  - 2. 
  - 3. 
- 3. 
  - 1. 
- 4.  “ ” “ ” AGI
- 5.  **self attention** “ ”
- 6.  RL Test Time Scaling law Scaling Law  
 RL Scaling Law  
 S S  
 S  
7.  “ ”

Scaling Law  
Test Time



- 1.  KV cache
- 2.  kv cache
- 3. 
- 4. 
  - 1. 
  - 2. 
- 5.  loss kv cache /



LLM  
test-time compute

LLM o3

/

- 1. CoT
  - 1. ☐ ☐ ☐ ☐
  - 2. ☐
  - 3. ☐ AI ☐
  - 4. ☐ AI ☐ token ☐
- 2. ☐
  - 1. ☐
  - 2. ☐ KV cache ☐
- 3. ☐ / ☐
  - 1. ☐
  - 2. ☐ LLM ☐
  - 3. ☐ CoT ☐
    - 1. ol-ioi ☐ c++ ☐
- 4. ☐
  - 1. ☐ CoT ☐ CoT ☐

CoT

- 1. ☐ CoT ☐ CoT ☐
- 2. ☐ CoT ☐
  - 1. ☐
  - 2. ☐ token ☐
- 3. ☐ " ☐ " ☐
  - 1. ☐ CoT ☐
  - 2. ☐
  - 3. ☐ " ☐ + " ☐ " ☐

# CoT

CoT

1. CoT
- 
2. “ ” “ ”
- 
3. “ ”
- 



CoT

RL

[https://mp.weixin.qq.com/s/rDjdgKS\\_qSfUwqCuoEjJsA](https://mp.weixin.qq.com/s/rDjdgKS_qSfUwqCuoEjJsA)