

# No Essential Difference Between AI and AGI

Making Real AI - Series

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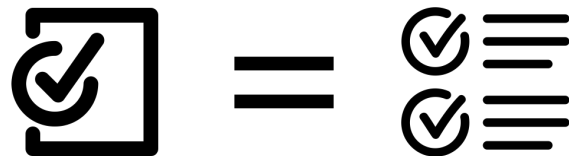
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# Background - Task Specificity as the Main Distinguisher between Narrow AI and AGI

- “.....training an algorithm on a dataset in **specialist areas**, for example. That’s what we call **Narrow AI**.....” (Baxter, 2019)
- “ Artificial General Intelligence (AGI) can be defined as the ability of a machine to **perform any task** that a human can.” (Joshi, 2019)
- “.....create a general intelligence which can **solve multiple problems.**” (Panchal, 2019)

# Fact

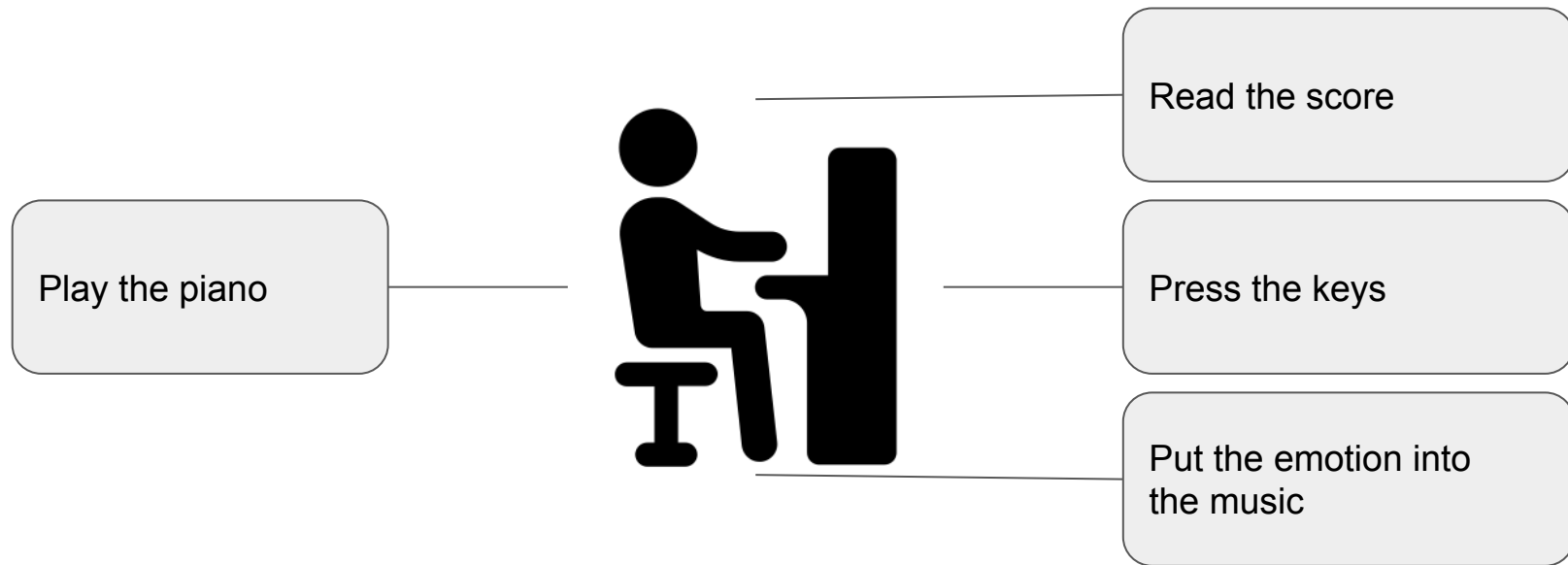
There is no common standard to judge some activity is a single task or multiple tasks.



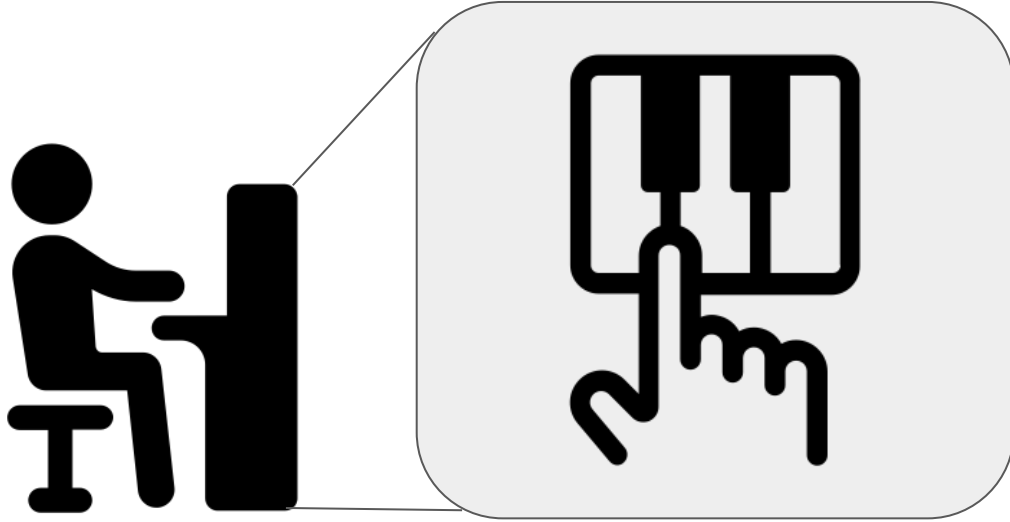
Taking specific action according to specific context is all you need. (Chen, 2020)



# Playing Piano is **Single Task** AND **Multiple Tasks**

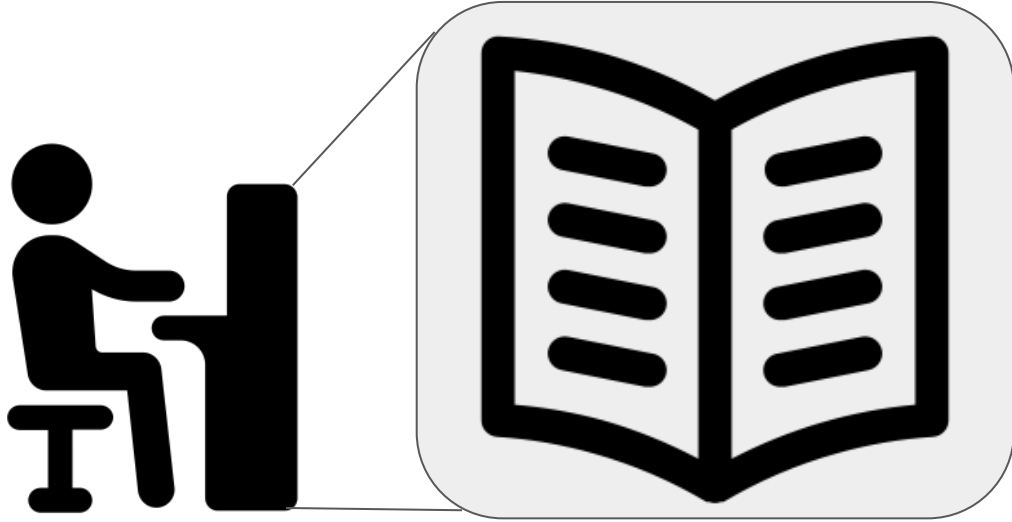


# Playing Piano is **Single Task** AND **Multiple Tasks**



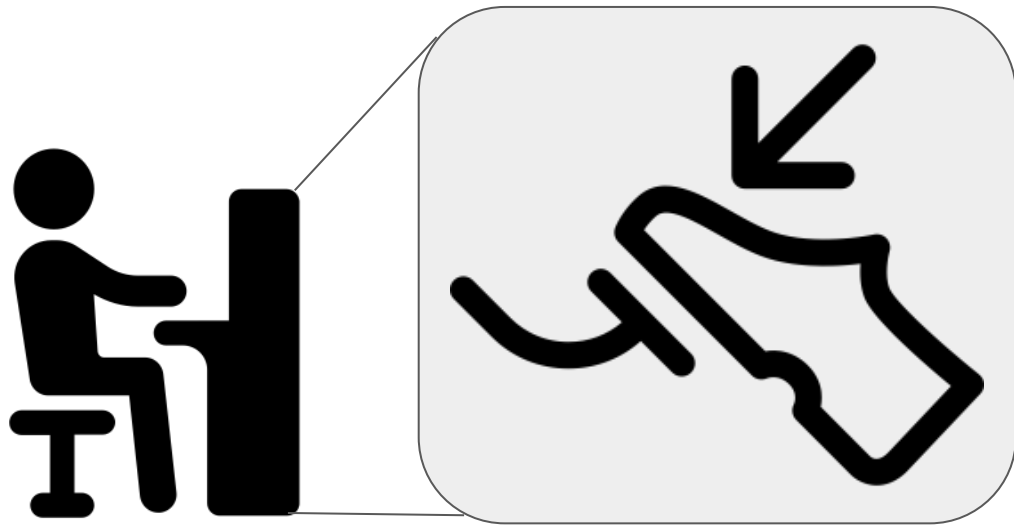
Pressing keys at some moment

# Playing Piano is **Single Task** AND **Multiple Tasks**



Flip the score at some next moment

# Playing Piano is **Single Task** AND **Multiple Tasks**



Press the pedal sometimes

# Being a Pianist Includes More Tasks



Performance etiquette



Cut nails often



Decide what concerts to participate



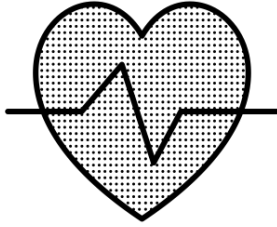
Dresses



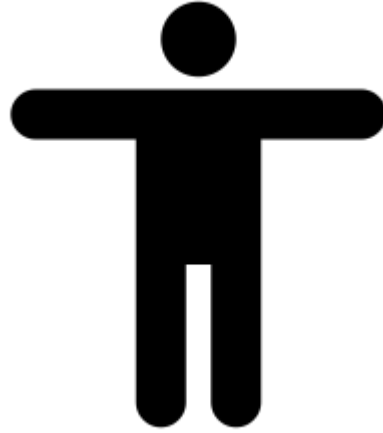
And more.....



# Life is **Single** YET **Multiple** Tasks



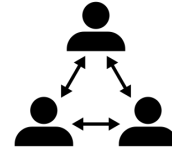
Being alive is the single task



Food

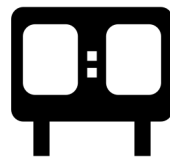
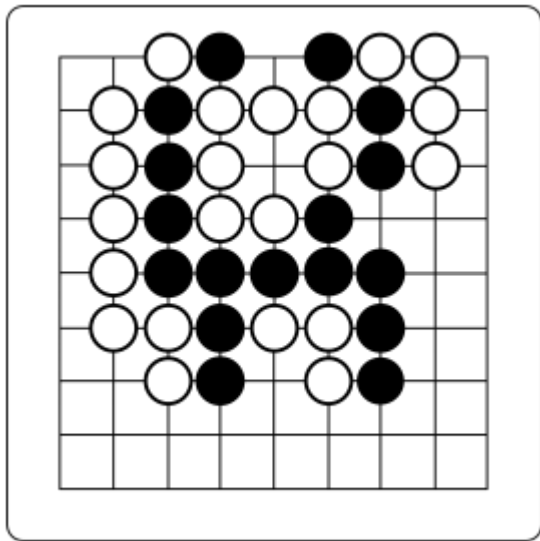


Money



Relationship

# Even Playing Go is **Single YET Multiple Tasks**



Calculating the score

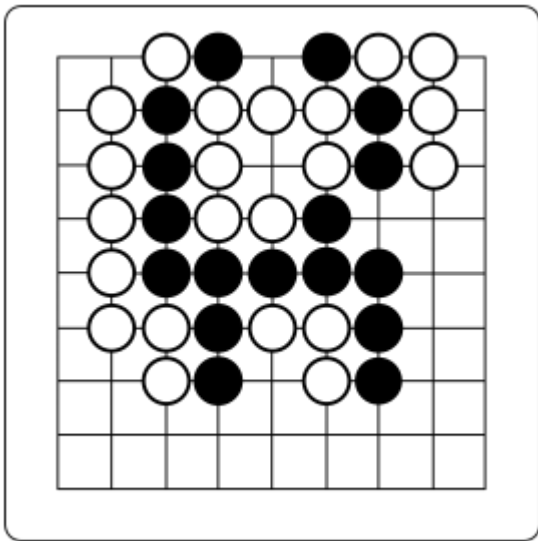


Simulating possible steps

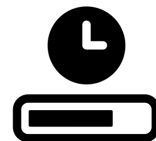


Comparing strategies

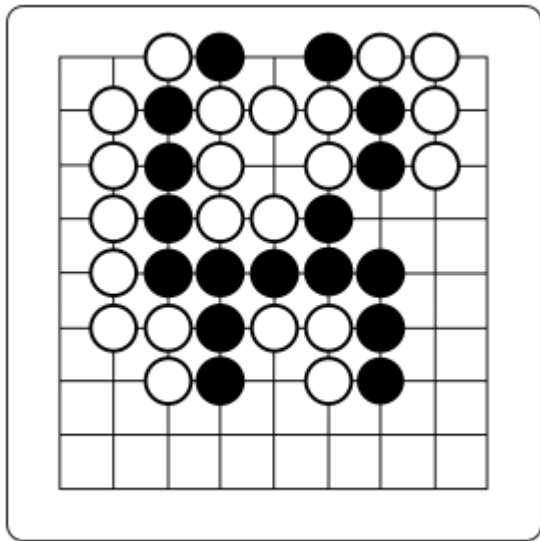
# Even Playing Go is Context Sensitive



Do step simulation when  
computation resources are enough  
and  
still have time.



# Even Playing Go is Context Sensitive



Compare and make a decision when  
computation resources are limited  
and  
little time left.



# Let's Do

1. Stop the discrimination between AI and AGI.
2. We can still use the term task-specific or task-general, but they are relative terms without a common decisive standard.
3. Learning context is all you need for more powerful AI.  
(Chen, 2020)

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And welcome any collaboration

# Reference

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