

No Essential Difference Between AI and AGI

Making Real AI - Series

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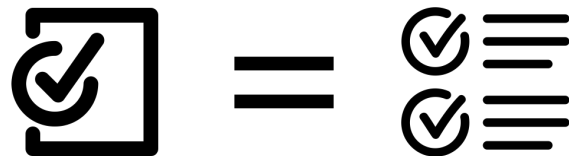
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Background - Task Specificity as the Main Distinguisher between Narrow AI and AGI

- “.....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

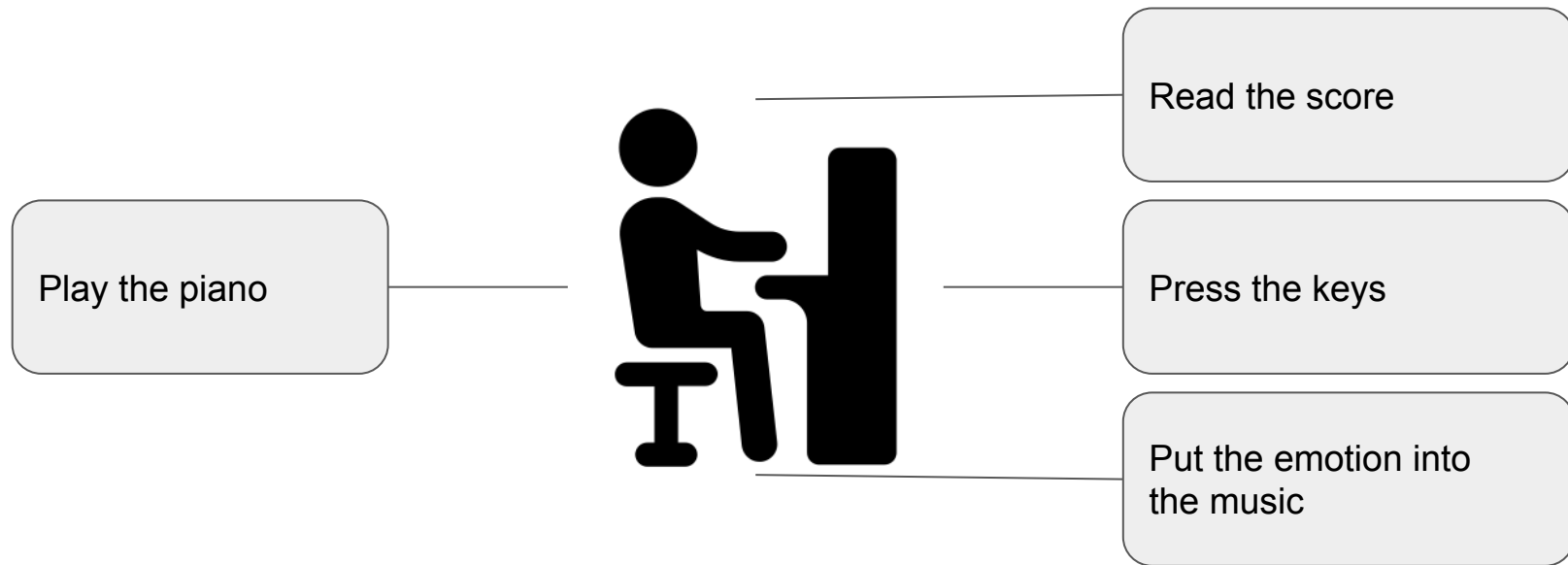
There is no common standard to judge some activity is a single task or multiple tasks.



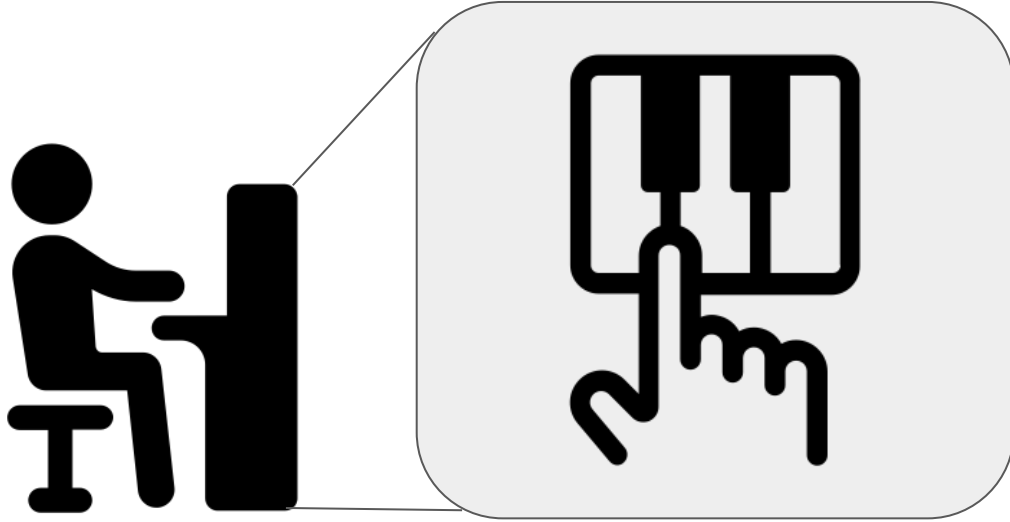
Taking specific action according to specific context is all you need. (Chen, 2020)



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

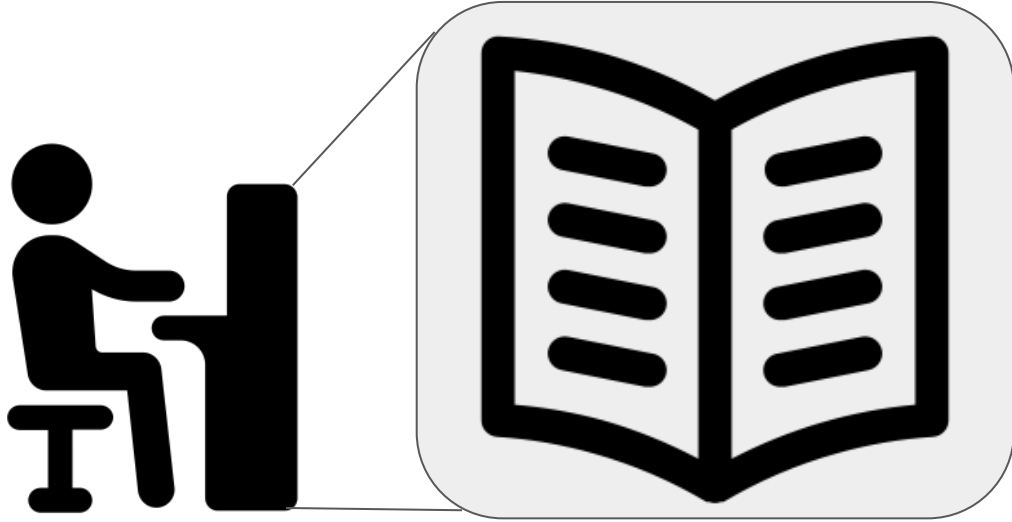


Playing Piano is **Single Task** AND **Multiple Tasks**



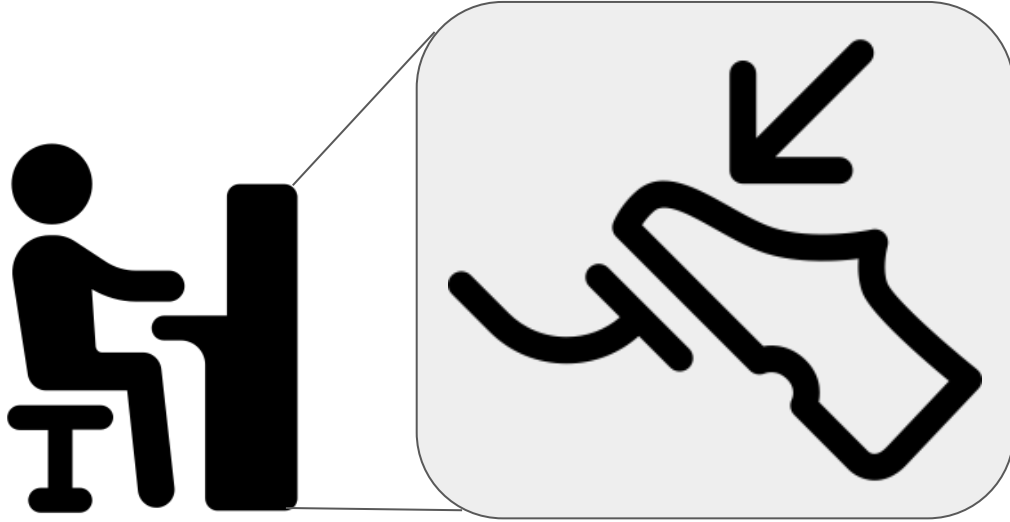
Pressing keys at some moment

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

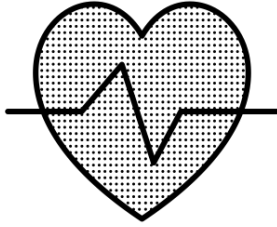


Dresses

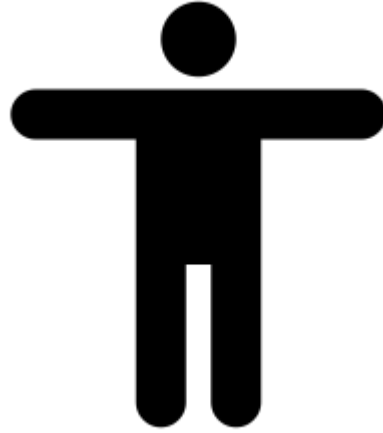


And more.....

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



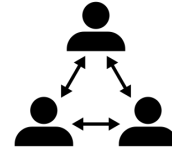
Being alive is the single task



Food

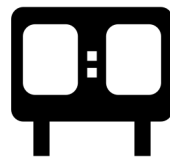
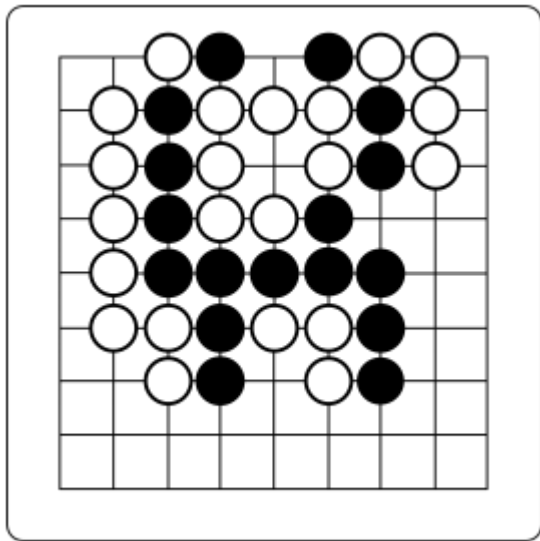


Money



Relationship

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



Calculating the score

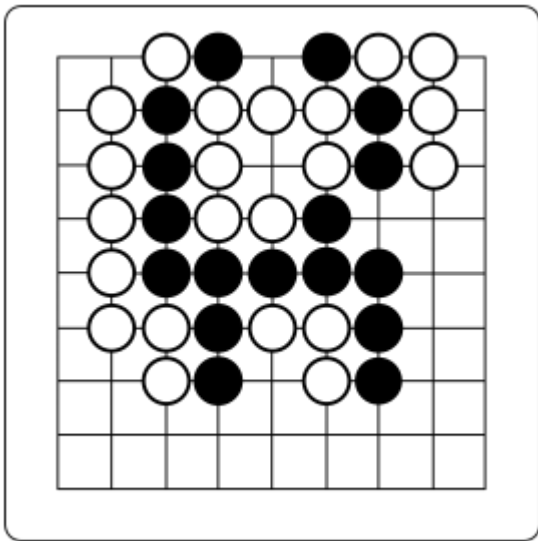


Simulating possible steps

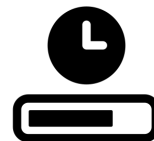


Comparing strategies

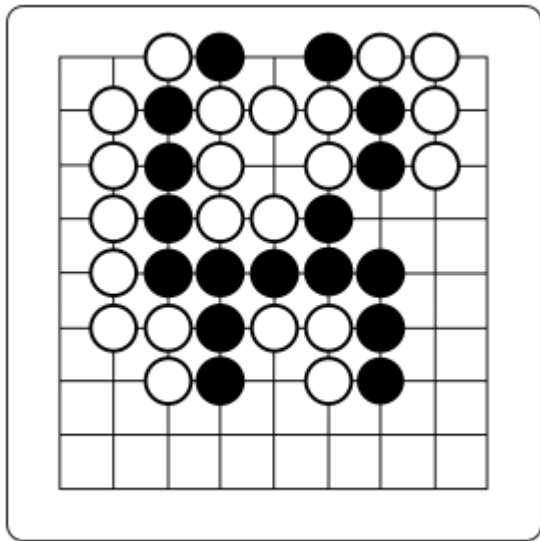
Even Playing Go is Context Sensitive



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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