

Sukree Sinthupinyo

อาชิก polish ภาษานาจะทานทนโดย AI ได้ 100%

Al is All Around

#### **Definitions**

"[The automation of] activities that we associate with human thinking, activities such as decision-making, problem solving, learning . . ." (Bellman, 1978)

"The study of mental faculties through the use of computational models" (Charniak+McDermott, 1985)

"The branch of computer science that is concerned with the automation of intelligent behavior" (Luger+Stubblefield, 1993)

"The study of how to make computers do things at which, at the moment, people are better" (Rich+Knight, 1991)

Com มู่ปรูกมาหาศาย มาเอเอเบรามหาก

# Artificial Intelligence

fly like a bird: สร้างให้กามกามเทมีมนก ‡ can fly = ไม่ต้องกำนบบนก ใช้ aerodynamic แล้งเป็นบินแบบ float in the air.

रः ग्राप्तु अस्तरात्रामं स्व

Systems that think like humans

Systems that act like humans

ส์รางเครื่องจักรที่สามารถ...

กิดอย่างมีหลักการ ไม่จำยินต้อง รษณะรุง

Systems that think rationally

Systems that act rationally

สนใจกา อากาอ A ล้อ think like human (humanlg)
นรือ act like human เหลือนหลือใส่เหลือน
if-then-else รีโอ

course til Jams Weak As

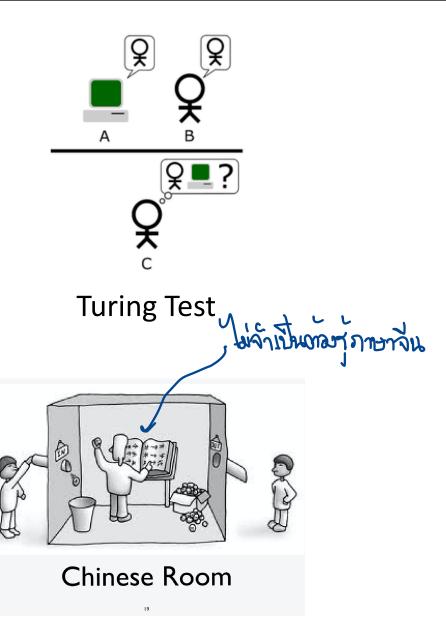


Figure from: http://brianoverland.com/2015/05/20/a-i-and-consciousness/

**Turing Test** 

#### Why does Al become popular?

1956

### Why does AI become popular?

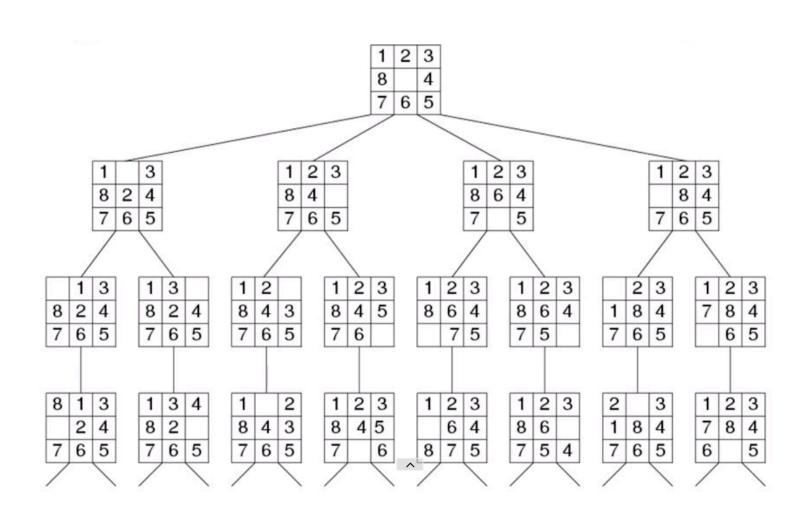


Algorithm

Computing Power



## Search Space



How Big It is?

$$O(b^d)$$

# How Big It is?

- Each plate must be moved five times
- Total moves is approximately 40 times
- $4^{40} = 1208925819614629174706176$  nodes to be stored
- 9007199254740992 GB Ram needed
- In the case that we can generate 1 billion nodes per second, we need 38,334,786.263782 years to solve this simple problem