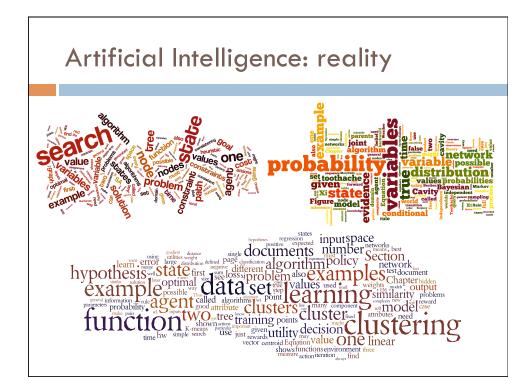
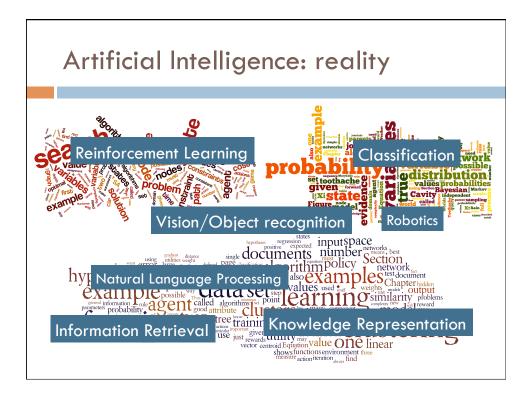
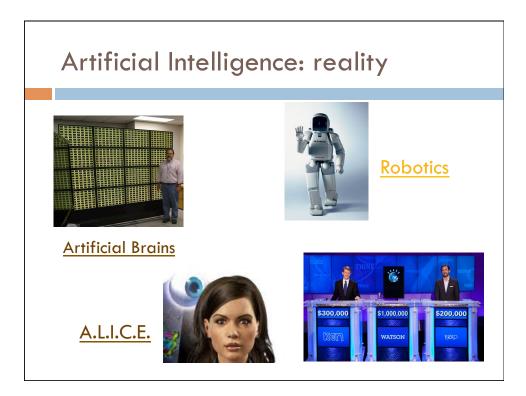
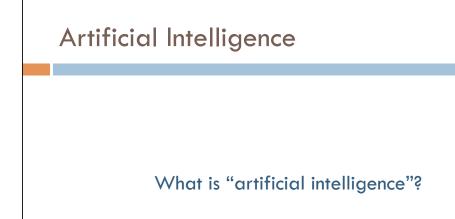


## <section-header>









## A.I. according to CS 151

"it essentially comes down to a computer's ability to approximate rational human thought"

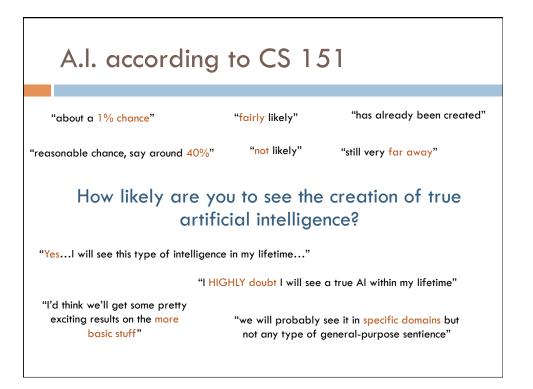
"a machine that can perform any intellectual task as good as or better than a human can" "mimic how humans think and act"

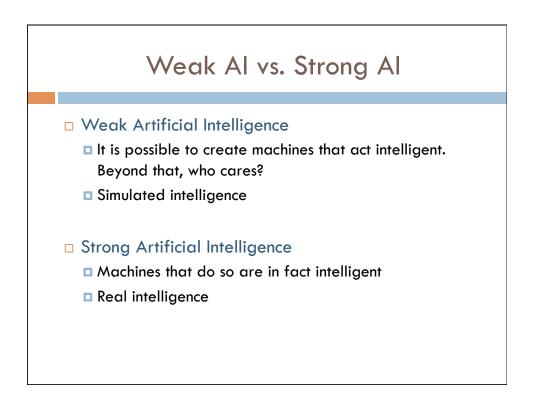
"emulate human behavior autonomously...indistinguishable from that with human intelligence...also be able to grow and expand and create new thoughts"

## What is "artificial intelligence"?

"learn through experience and use the acquired knowledge to produce 'human-like' behavior in a variety of contexts" "any automated system that was capable of creating understanding from information"

Machines that can "replace humans in performing work that involves common sense and basic human knowledge" "software capable of taking in its environment...and deciding on an action that will have the most favorable result... ability for software to use past successes or failures to modify future decisions"





## Weak Al vs. Strong Al

"Surely, it may be said, however closely a computer might model the outward manifestations of human thought processes, the machine would not really be thinking, since that involves being able to have subjective, inner processes."

"The question of whether Machines Can Think...is about as relevant as the question of whether Submarines Can Swim" -Dijkstra

"Not until a machine could write a sonnet or compose a concerto because of thoughts and emotions felt, and not by the chance fall of symbols, could we agree that machine equals brain – that is, not only write it but know that it had written it" – G. Jefferson (1949)



