**ARTIFICIAL INTELLIGENCE**

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**Intelligence ??** has been defined in many different ways including as one's capacity for logic, understanding, self-awareness, learning, emotional knowledge, planning, creativity, and problem solving.

What is Artificial Intelligence ??

AI is a field which attempts to build intelligent machines and tries to understand intelligent entites.

HISTORY :

The modern history of AI begins with the development of stored-program electronic computers.

**1956 :**

Dartmouth Conference :

John McCarthy (“father of AI”) organizes conference

A month of brainstorming in VT

Talent and expertise of others interested in machine intelligence

Biggest gain: Field now called Artificial Intelligence

Demonstration of the first running AI program, the Logic Theorist (LT) written by Allen Newell and Herbert Simon

**1952-62**

Arthur Samuel (IBM) wrote the first game-playing program, for checkers, to achieve sufficient skill to challenge a world champion. Samuel's machine learning programs were responsible for the high performance of the checkers player.

**1958**

John McCarthy (MIT) invented the Lisp language

Still used today

**1962**

* First industrial robot company, Unimation, founded.

**1963**

Start of DoD’s Advanced Research Projects

MIT receives 2.2 million dollar grant from US govt. to research Macine-Aided Cognition (AI)

From Department of Defense

US wants to stay ahead of Soviet Union

l’origine du développement de nombreuses technologies qui ont eu des conséquences considérables dans le monde entier dont les [réseaux informatiques](https://fr.wikipedia.org/wiki/R%C3%A9seau_informatique) (notamment l’[ARPANET](https://fr.wikipedia.org/wiki/ARPANET) qui a fini par devenir [Internet](https://fr.wikipedia.org/wiki/Internet))

**1968**

Microworld Program, SHRDLU Created

SHRDLU part of microworlds project –research & programming in small worlds

When confined to small subject matter, computer programs can solve spatial & logic problem

**1972**

PROLOG Language Revealed

General logic programming language

Represented as facts and rules

Developed in France

Remains one of most possible programming languages today

**1991**

AI Military Systems Used Effectively in DESERT STORM

Used in missile systems, heads-up-displays, etc.

AI truly put to the test

**2000’s**

* Interactive robot pets (a.k.a. "smart toys") become commercially available, realizing the vision of the 18th cen. novelty toy makers.
* Cynthia Breazeal at MIT publishes her dissertation on Sociable Machines, describing KISMET, a robot with a face that expresses emotions
* a machine that can recognize and simulate [emotions](https://en.wikipedia.org/wiki/Emotion" \o "Emotion)..

**Goals :**

**1 :Reasoning :**

**-to develop algorithms that human use**

**-to devlop the power of sloving problems using fast judgement**

**2 :Knowledge represntation ;**

**Many of the problems machines are expected to slove will require extinsive knowledge about the world**

**3 :planning :**

**IA must be able to set goals and find a way to achieve them**

**4 :Natural languages**

**To gives machine the ability to read understand the human language**

**5 :manipulation :**

**Ia is requied for robots to handle such task as object manipulation and localization**

**6 :Creativity**

**Construct machines with creativity ability .**

**one of the ultimate goals of ai research is to replicate creativity as it appears in humans**