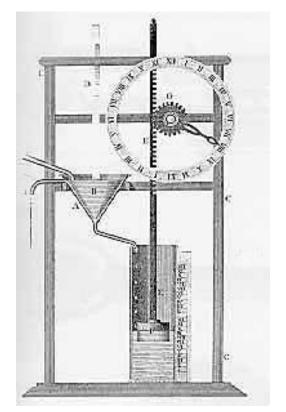
Introduction to Robotics

History of Robotics

Here are a number of highlights in the history of robotics.

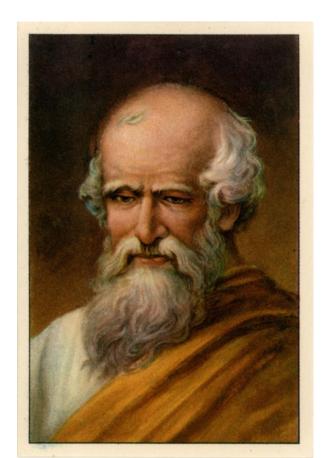
~270BC

An ancient Greek engineer named Ctesibus made organs and water clocks with movable figures. The concept for his clock was fairly simple; a reservoir with a precise hole in the bottom would take 24 hours to empty its contents. The container was marked into 24 divisions.



278 - 212BC

Archimedes (287-212BC) did not invent robots, but he did invent many mechanical systems that are used in robotics today, as well as advancing the field of mathematics.



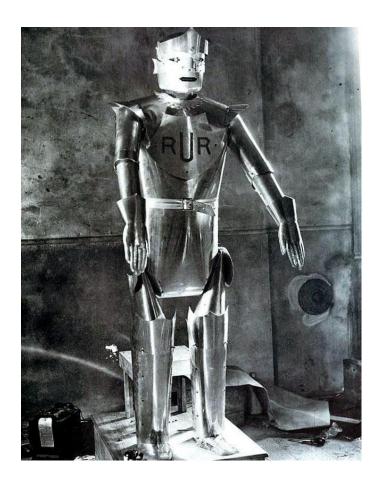
1495

Leonardo da Vinci designed what may be the first humanoid robot though it cannot be confirmed if the design was actually ever produced. The robot was designed to sit up, wave its arms, and move its head via a flexible neck while opening and closing its jaw.



1921

The term "robot" was first used in a play called "R.U.R." or "Rossum's Universal Robots" by the Czech writer Karel Capek. The plot was simple: man creates a robot to replace him and then robot kills man!



1942

Isaac Asimov wrote the "Three Laws of Robotics

1st **Law:** A robot may not injure a human or, through inaction, allow a human to come to harm.

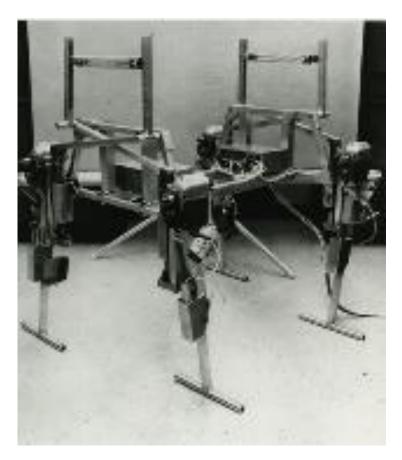
2nd **Law:** A robot must obey orders given it by human beings, except where such orders would conflict with a higher order law.

3rd **Law:** A robot must protect its own existence as long as such protection does not conflict with a higher order law



1968

The first computer controlled walking machine was created by Mcgee and Frank at the University of South Carolina

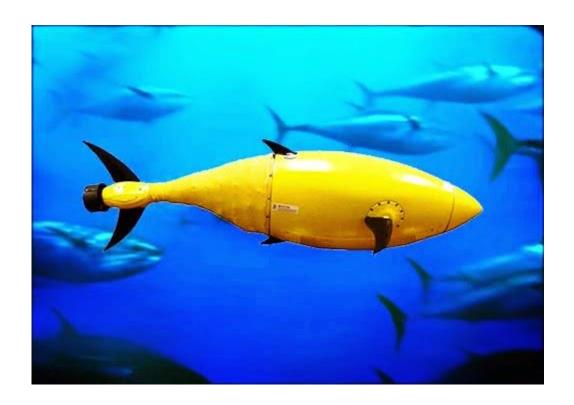


1979

Hiroshi Makino of Yamanashi University designed the Selective Compliant Articulated Robot Arm (SCARA) for assembly jobs in factories.



1996 RoboTuna was created by David Barrett at MIT. The robot was used to study how fish swim.



1997

NASA's PathFinder landed on Mars. The wheeled robotic rover sent images and data about Mars back to Earth.



1998

LEGO released their MINDSTORMS robotic development product line, which is a system for inventing robots using a modular design and LEGO plastic bricks.



1999Sony released the first Aibo robotic dog.



2000

Honda released ASIMO, the next generation in its series of humanoid robots.



2003

As part of their mission to explore Mars, NASA launched twin robotic rovers on June 10 and July 7, 2003 called Spirit and Sojourner.



2008

Robot Nao Released by Aldebaran Robotics, later which was acquired by SoftBank Robotics in 2015.



2016 Sophia is a social humanoid robot developed by Hong Kong-based company Hanson Robotics. Sophia was first turned on February 14, 2016.

