

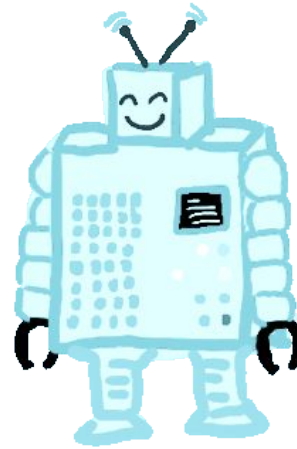
Robotics



SMK
artemis

What are robots?

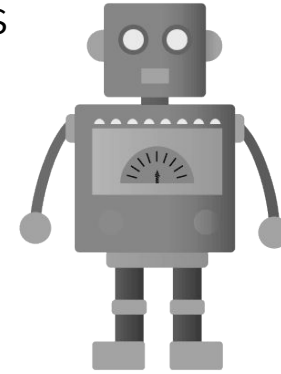
- Robots are machines that are capable of carrying out a complex series of actions automatically
- They are programmed using computers
- Some robots are able to work independently, while others must always have a person telling them what to do



Why use robots?



- Robots are created in order to help perform tasks efficiently
- Most robots today are used to do repetitive actions or jobs
- Robots are often cheaper to use than humans
- It is easier for robots to do some jobs
- In some cases, robots are much more accurate than humans



Fun Fact!

The first “robot homicide” occurred in a Japanese factory when a robotic arm “accidentally” crushed a worker.

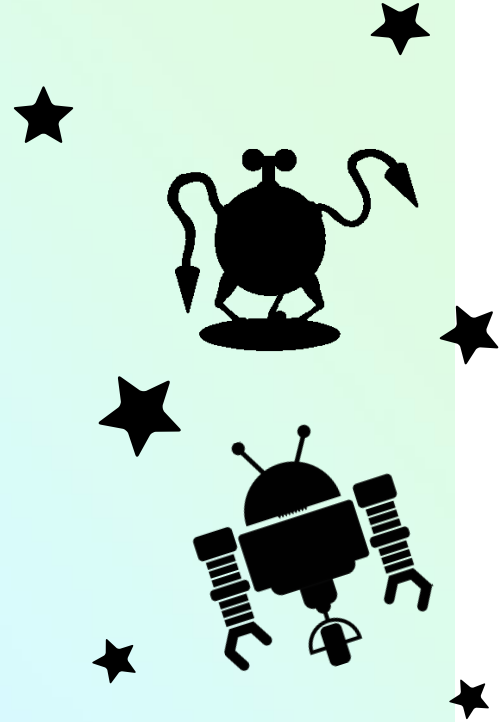


History of Robots



- Leonardo Da Vinci sketched plans for a humanoid robot in the late 1400's
- Many inventions similar to robots have been documented throughout history
 - Many fiction writers found success in writing about robots in all sorts of situations
- In 1956 George Devol and Joseph Engelberger formed the world's first robot company
- In the 1960's, robots were introduced into the General Motors automobile plant

Let's talk about
Lego
Mindstorms!



Important Parts

Brick

It is the base of your robot and provides it with power

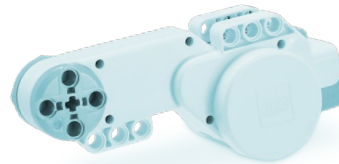
It will be where you upload your programs



Motors

Motors are used for the movement of your robot

Most robots use two motors with the third usually being used for attachments



Sensors

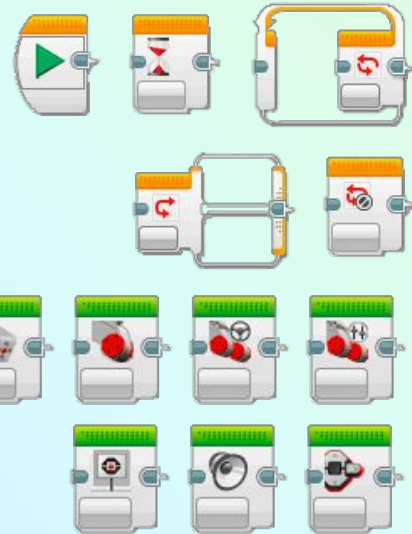
Two important sensors are touch and ultrasonic

Touch: Activated when touched

Ultrasonic: Activated by proximity



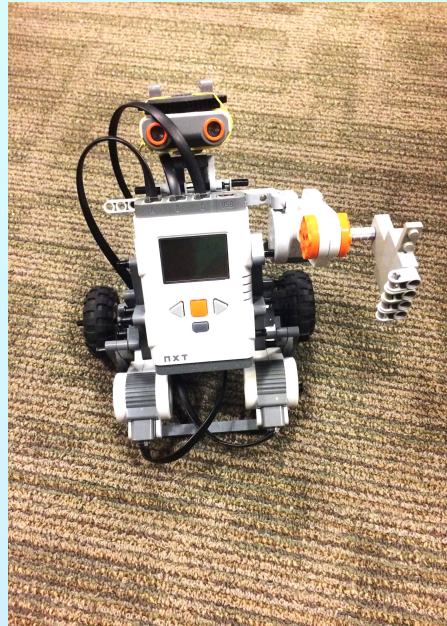
Programming



Projects



Our projects!



Thank you!

