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most are task specific robots designed to do one job and repeat it over and over again hardly any are general purpose robots capable of doing a wide variety of jobs in the way that humans are general purpose flesh and blood machines robotics is the intersection of science engineering and technology that produces machines called robots that replicate or substitute for human actions robots perform basic and repetitive tasks with greater efficiency and accuracy than humans making them ideal for industries like manufacturing recent advances in artificial intelligence ai are leading to the emergence of a new class of robot these are machines that go beyond the traditional bots running preprogrammed motions these are robots that can see learn think and react to their surroundings here s a definition that is neither too general nor too specific a robot is an autonomous machine capable of sensing its environment carrying out computations to make decisions and performing actions in the real world think of the roomba robotic vacuum a robot is a type of automated machine that can execute specific tasks with little or no human intervention and with speed and precision the field of robotics which deals with robot design engineering and operation has advanced remarkably in the last 50 years robot any automatically operated machine that replaces human effort though it may not resemble human beings in appearance or perform functions in a humanlike manner by extension robotics is the engineering discipline dealing with the design construction and operation of robots a robot is a machine especially one programmable by a computer capable of carrying out a complex series of actions automatically a robot can be guided by an external control device or the control may be embedded within robots have finally grown smart enough and physically capable enough to make their way out of factories and labs to walk and roll and even leap among us the machines have arrived the robot revolution has arrived machines now perform all sorts of tasks they clean big stores patrol borders and help children with autism but will they improve our lives with a firm yet an autonomous drone however is a thinking agent that senses and interacts with its world it s a robot intelligence then is a core component of what makes a robot a robot and not a robotics design construction and use of machines robots to perform tasks done traditionally by human beings robots are widely used in such industries as automobile manufacture to perform simple repetitive

tasks and in industries where work must be performed in environments hazardous to humans automation robotics is the interdisciplinary study and practice of the design construction operation and use of robots 1 within mechanical engineering robotics is the design and construction of the physical structures of robots while in computer science robotics focuses on robotic automation algorithms the term robot covers a wide range of automated devices from the robotic arms widely used in manufacturing to self driving cars and drones used in warfare and rescue missions most humanoid robots are robots that resemble and act like humans typically engineered to imitate authentic human expressions interactions and movements these robots are often outfitted with an array of cameras sensors and more recently ai and machine learning technologies the world s largest catalog of robots drones and self driving cars with thousands of photos videos tech specs news and information on how to get into robotics brought to you by ieeec spectrum robots that are meant to interact with people often have a face eyes or a mouth just like we do whether they look like us or not most robots have three essential ingredients that make them a robot sensors actuators and programs let a robot do it start ups are using technology to take a robotic approach to manicures offering a simple way to provide foolproof nail polish share full article what is a robot in general a robot can be defined as an electromechanical device which can react to its immediate environment in one way or the other and autonomously take a decision or perform a task a robot s ability to take a decision and react to its environment is what distinguishes it from cars and toasters for instance want to build a robot here are the different ways you can create your own remote or autonomous robot robots can in effect be programmed by non specialist human supervisors using ordinary language rather than computer code such models can also respond in kind when the robot makes a mistake

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the term robot covers a wide range of automated devices from the robotic arms widely used in manufacturing to self driving cars and drones used in warfare and rescue missions most

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humanoid robots are robots that resemble and act like humans typically engineered to imitate authentic human expressions interactions and movements these robots are often outfitted with an array of cameras sensors and more recently ai and machine learning technologies

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