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EDISON

PRIMEROS PASOS: CÓMO FUNCIONA

INSTALACIÓN DEL ENTORNO





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Encendido





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on/off



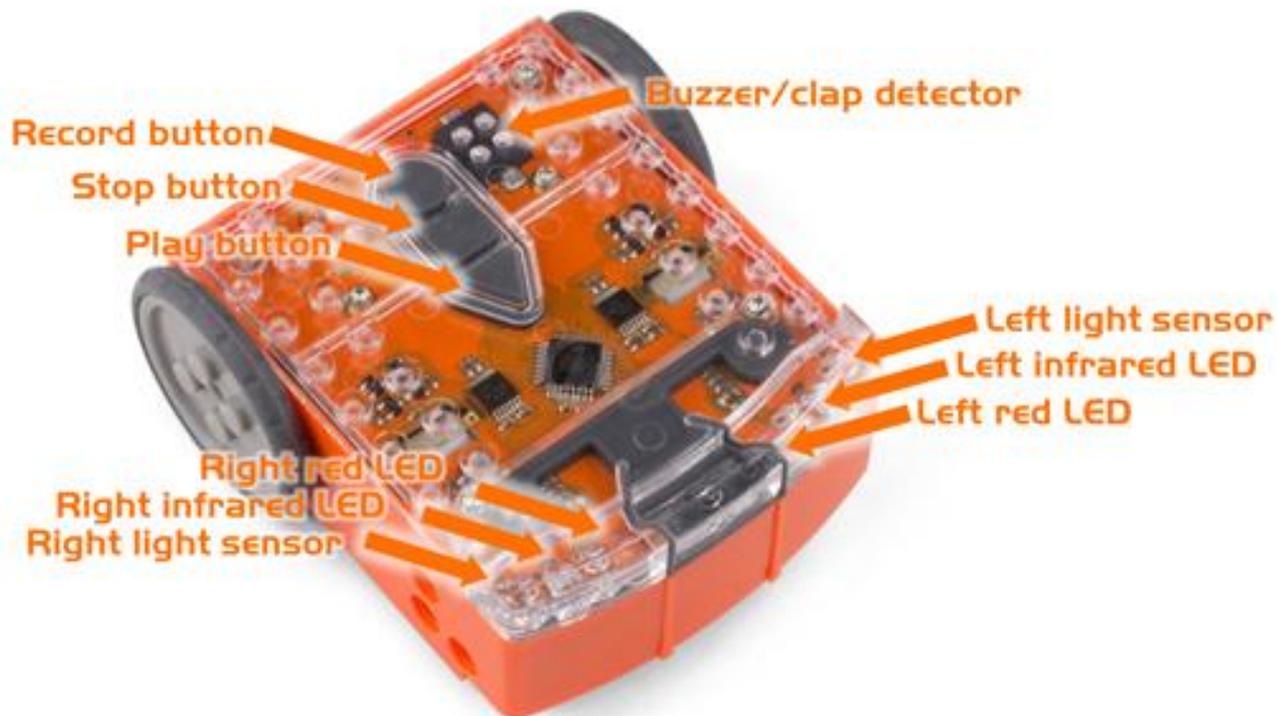


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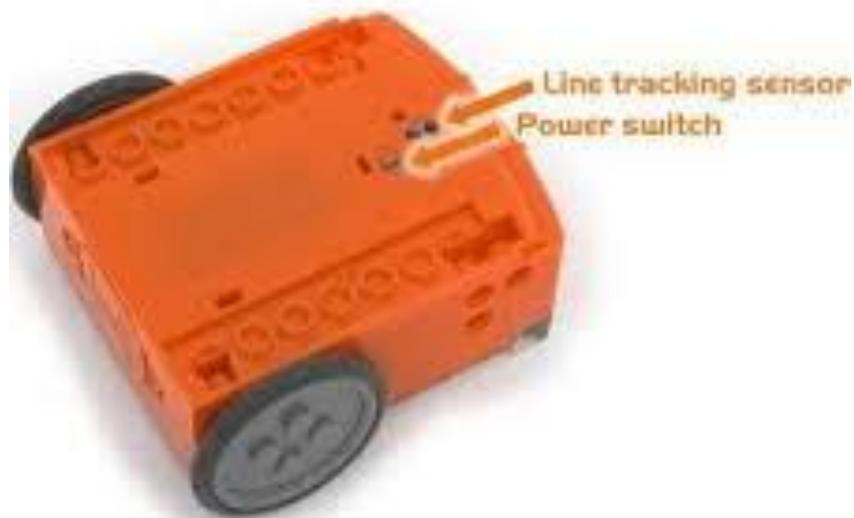
De que se compone nuestro robot

Vamos a ver los sensores disponibles





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Instalación del entorno de programación

<https://meetedison.com/download/>

Multiplataforma

Diferentes posibilidades de programar: Edware, EdPy

The screenshot shows the Edison EdWare software interface. The main workspace contains a flowchart for a line-tracking program. The flow starts with a 'start' block, followed by a 'line tracker' block, then a 'loop start' block. Inside the loop, there is an 'IF line' block. If the line is detected (green checkmark), the flow goes to a 'dual drive' block. If not (red X), it goes to another 'dual drive' block. Both 'dual drive' blocks lead to a yellow junction block, which then connects to a 'loop end' block, and finally to an 'end' block. A 'new event' button is located at the bottom left of the workspace.

control

- flash LED
- play beep
- play music
- detect obstacle
- single drive
- dual drive
- line tracker

Dual Drive Properties

Property	Constant	Variable
Direction:	Forward	<<-Constant >>
Speed:	0	<<-Constant >>

Help

Control both motors using the following options:

Direction:
Direction refers to the direction the robot will move.
Forward - Drive the wheels to make the robot move forwards
Backward - Drive the wheels to make the robot move backwards
Forward right - Drive the wheels to make the robot turn

Variables

Name	Range	Initial Value
<NEW>		

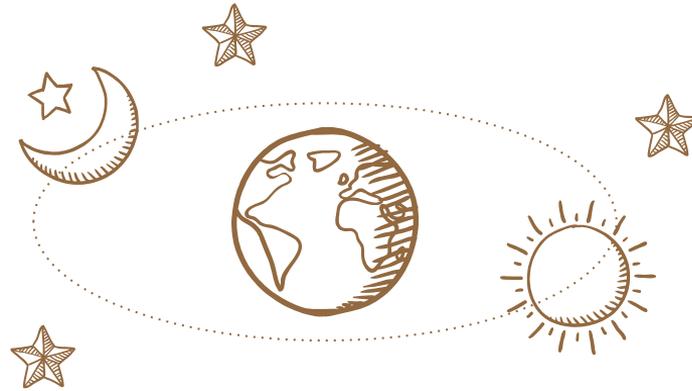
Edison EdWare *File: Line-tracking.edw



Menu Save		Drive_Square		Check Code	Program Edison
Programs	Drive_Square	Documentation			
Line_following	1 2 #-----Setup----- 3	Search documentation...			
SuperSumo	4 import Ed 5	Ed.List()			
Robot_Go_Crazy	6 Ed.DistanceUnits = Ed.CM 7 Ed.Tempo = Ed.TEMPO_MEDIUM 8	Ed.LeftLed()			
Bounce_in_borders	9 #-----Your code below----- 10	Ed.RightLed()			
✓ Drive_Square	11 for x in range(4): 12 Ed.Drive(Ed.FORWARD, 5, 10) 13 Ed.Drive(Ed.SPIN_LEFT, 1, 90)	Ed.ObstacleDetectionBeam()			
Recently Opened		Ed.LineTrackerLed()			
Robot_Go_Crazy		Ed.SendIRData()			
Drive_Square		Ed.StartCountDown()			
		Ed.TimeWait()			
		Ed.RegisterEventHandler()			
		Ed.PlayBeep()			
		Ed.PlayMyBeep()			
		Ed.PlayTone()			
		Ed.PlayTune()			
Compiler Output		Line Help			
There are no errors in your code.		Edison spins counter-clockwise for 90 degrees at speed 1.			



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Vamos a comenzar con los ejercicios



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