

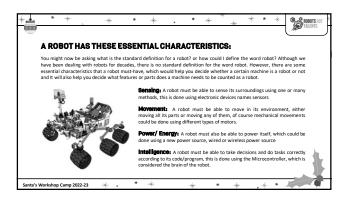
TOPICS COVERED:

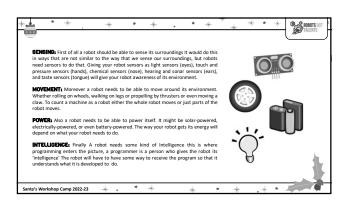
- Introduction to robotics
- MINDSTORMS robotics
- Introduction to EV3 set
- EV3-SCRATCH Programming
- SCRATCH Studio UI
- Blocks categories
- Coordinates system
- Project 0
- Building Exercise 1

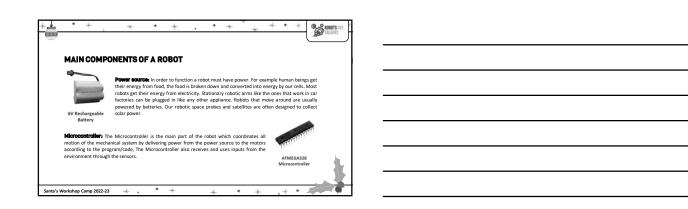


WHAT IS THE FIRST THING THAT COMES TO YOUR MIND WHEN YOU THINK OF A ROBOT Y For many people, it is a machine that imitates human begins or has superpowers like the androids in Star Wars or the Terminator. However most of these robots which capture our imagination, only inhabit Science Fiction Movies, and it is impossible to find them wandering in the streets anytime soon, although many organizations from all over the world are working on creating similar humanoid robots like Honda's Asimo, Pepper by Soffbrain, and Atlas by Botton Dynamics, but, of course, no no he has reached the level of the property of the prope

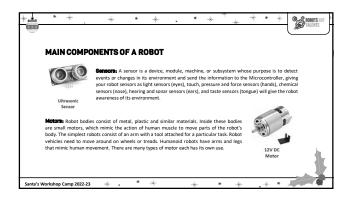


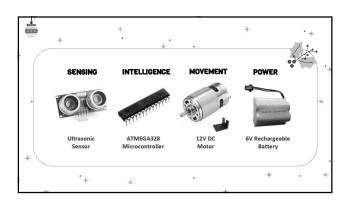


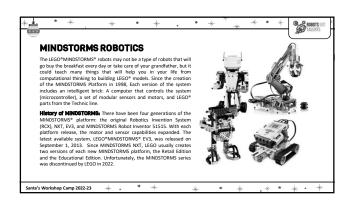






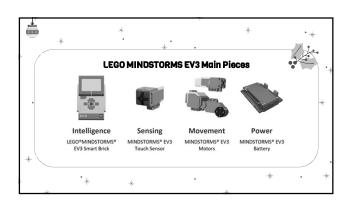


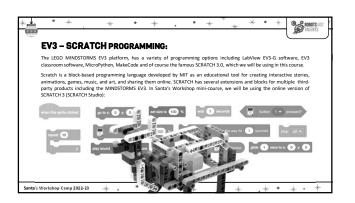




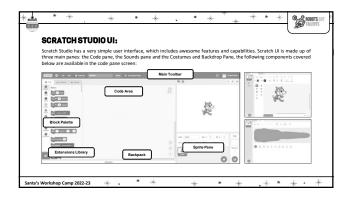


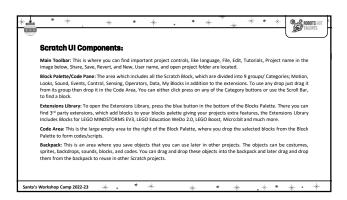


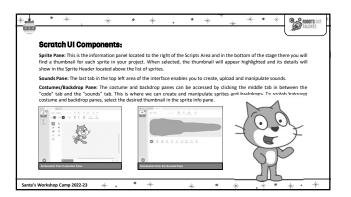




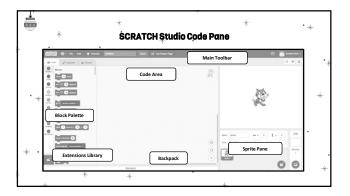


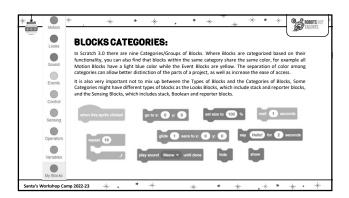


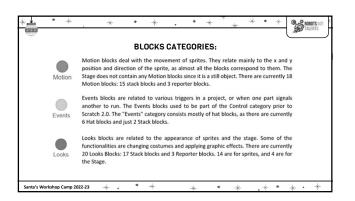










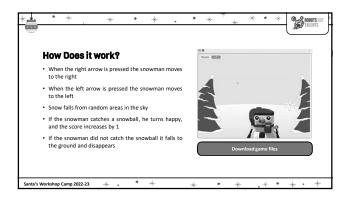


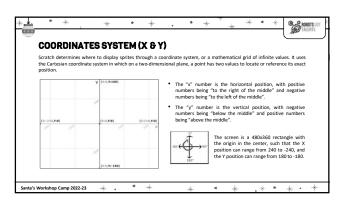


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000		VALENTS	
	Sound	Sound blocks are related to playing various sounds, whether they be MIDI notes or saved sounds. There are currently 9 Sound blocks: 8 Stack blocks and 1 Reporter block.	
	Sound	Control blocks run the basic flow of a project in the desired fashion, whether it be organized	
		or unexpected. They provide functions for looping various blocks and scripts. They "control" the project and enhance its running. There are currently 11 Control blocks: 1 Hat block, 5 C	
	Control	blocks, 3 Stack blocks and 2 Cap blocks. Some types of blocks are only available in the control blocks as you read there are some types of Blocks are only available in the Control	
		Blocks as the C Blocks and the Cap Blocks.	
	Sensing blocks associate with sprites and the stage detecting conditions. For example, sensing blocks can be used to detect when one sprite touches another. They consist of many		
	Sensing	Booleans and can work with Control blocks to stabilize a project' a flow. There are currently	
		18 Sensing blocks: 3 stack blocks, 5 Boolean blocks and 10 reporter blocks.	
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	Operator's blocks deal with many mathematical functions within a project and provide the		
	capabilities of simple to complex mathematical operations. "Operators" also contains blocks for modifying strings and implementing them into various uses. There are some Boolean blocks, too, in which some are related to mathematical outputs, while others are used for adjoining other Booleans into one or a different output condition. There are		
		currently 18 Operators blocks: 7 Boolean blocks and 11 Reporter blocks.	
		Data blocks include two subcategories, Variables and Lists, but both are related to storing	-
	Variables	and accessing data. Prior to Scratch 2.0, this category was called "Variables". Data blocks are used for storing information, such as a score in a project, and using it in scripting and	
		other beneficial purposes. There are currently 17 Variables blocks: 11 Stack blocks, 5 Reporter blocks, and 1 Boolean block. There are 5 variable blocks and 12 list blocks.	-
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		My blocks are blocks that hold custom procedures for a selected sprite. The blocks are	
	useful for running a script without screen refresh and organization of the scripts. Clicking Make a Block brings up a dialogue allowing the user to make a procedure. Once OK is pressed, the new block appears in the palette and an empty definition appears in the code		
		area. When the procedure runs, Scratch will run the blocks below the corresponding Define block.	

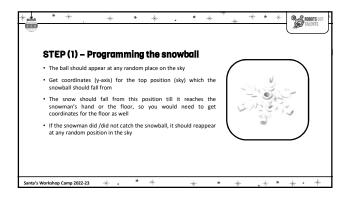


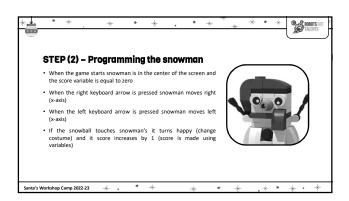






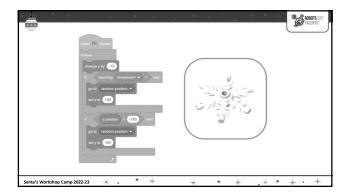


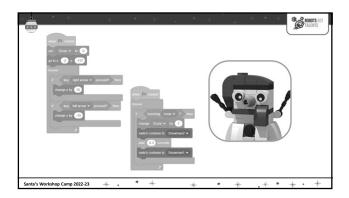












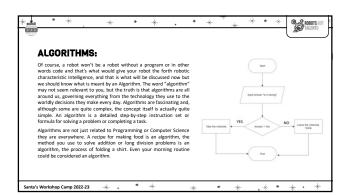


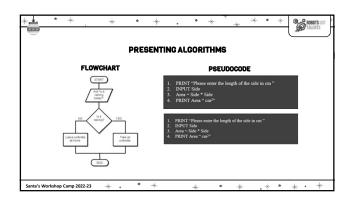


TOPICS COVERED:

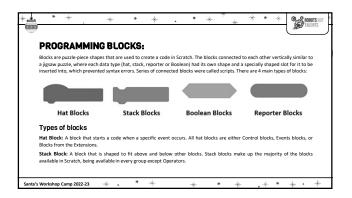
- Algorithms & Programming
- EV3 main parts
- Blocks types
- EV3-SCRATCH extension
- Input/Output blocks
- Costume pane
- Project 1
- Building Exercise 2
- Project 2

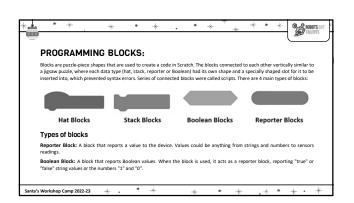


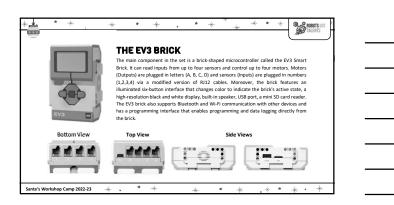




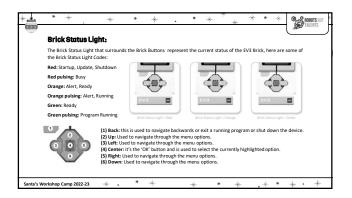


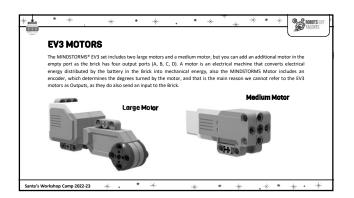


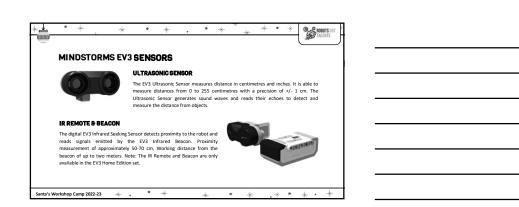




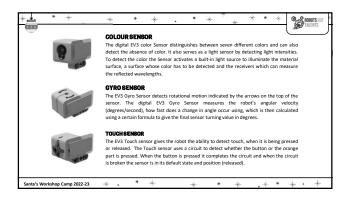


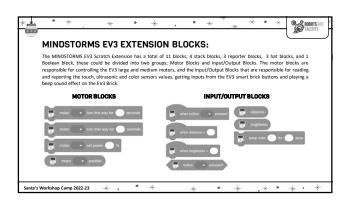


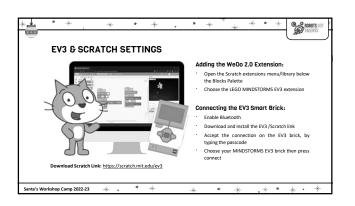




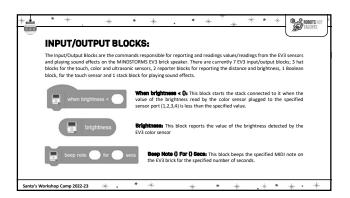




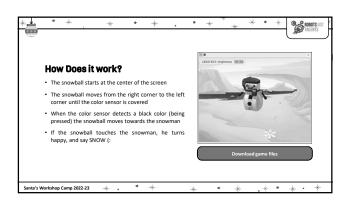




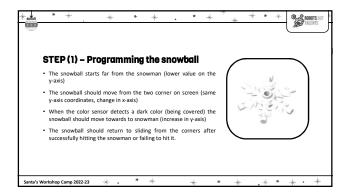


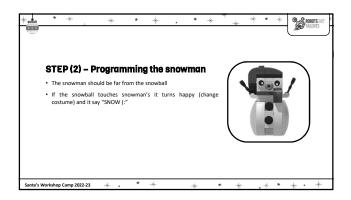


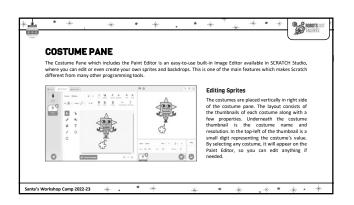






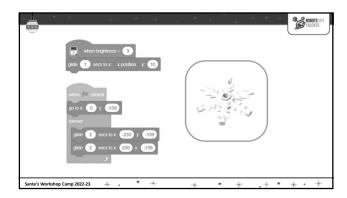


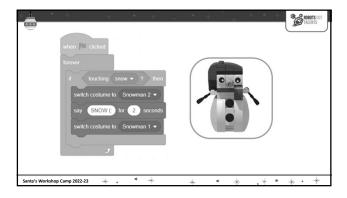




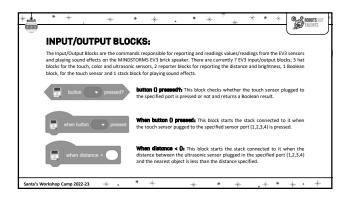


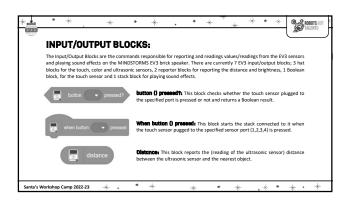








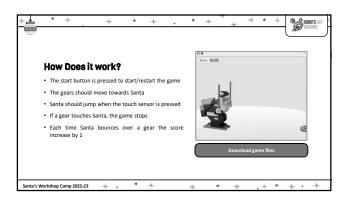


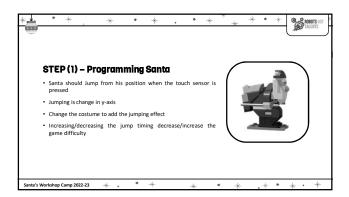




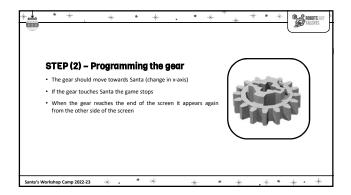




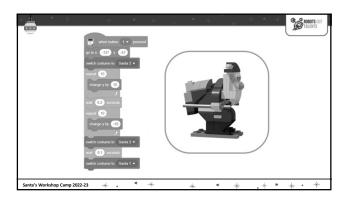




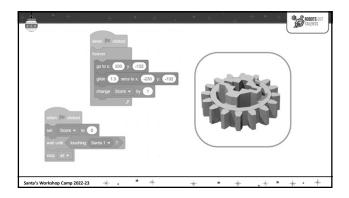












TOPICS COVERED:

- EV3 building pieces
- Building Exercise 3
- Motor blocks
- Variables & Scoring
- Project 3
- Building Exercise 4
- Project 4



