- 1x 3-Axis Magnetometer (sense the magnetic field around Sparki, coordinate with accelerometer to detect compass heading)
- 3x Light-sensing phototransistors (light following, darkness seeking)
- 5x Line-following and edge detection sensors (mazes, line follow, sumo)
- 1x 128×64 Graphic LCD
- 1x RGB LED (RGB = generate any color!)
- 1x Buzzer (beeping, booping, and musical tones!)
- 1x IR Transmitter (like your TV remote control)
- 1x IR Receiver (like your TV)
- 1x IR Remote control (lots of buttons to control Sparki with)
- 1x TTL Serial port for expansion (talk to an Arduino/Raspberry Pi)
- 1x Bluetooth Serial Module
- Powered by 4xAA batteries (rechargeable or alkaline)
- 2x Geared stepper motors (precise, measured movement down to millimeters/ sub-degrees)
- Marker holder for drawing
- And textured ABS plastic shell for your choice of decoration

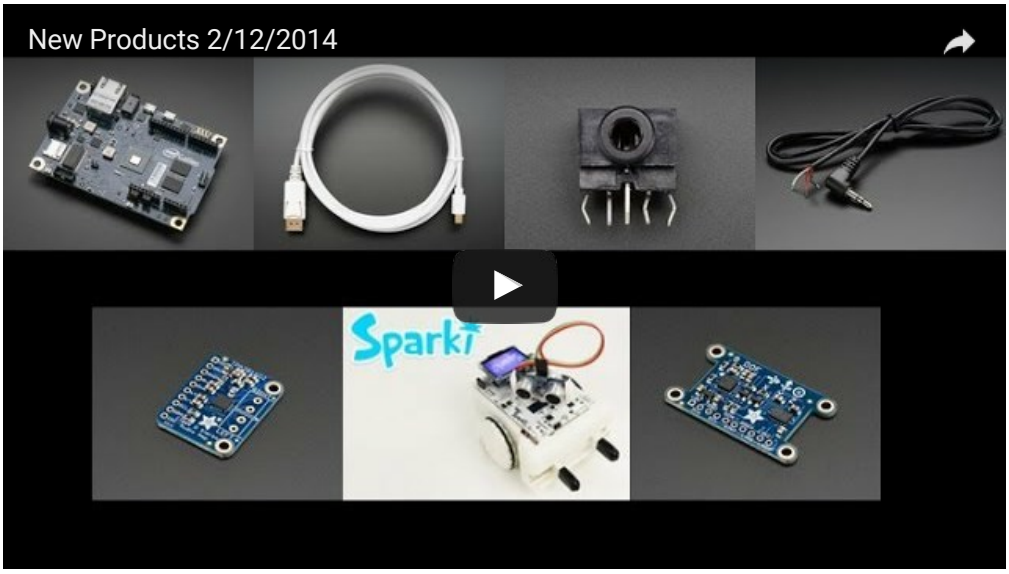
Here are some of the things you'll learn how to do with Sparki:

- Edge avoidance
- Line following
- Maze solving
- Wall avoidance
- Room navigation
- Object retrieval
- Follow/hide from light sources
- Shape drawing
- Computer input (make a keyboard/mouse using sensors)
- Games with other Sparkis

And more advanced concepts:

- PID Loops
- Pathfinding algorithms
- Signal Filtering
- Heuristics

The Programming:
Sparki's code is available as Arduino code. All code is made for free to users and open-source. Check out the tutorials here before purchasing



Sparki -- The Easy Robot for Everyone (14:55)

TECHNICAL DETAILS

Click here to see more information on all the parts that make up Sparki!

Guide to getting started with Sparki

For all technical issues, replacement and warranty assistance for the ArcBotics products please contact ArcBotics.

RoHS

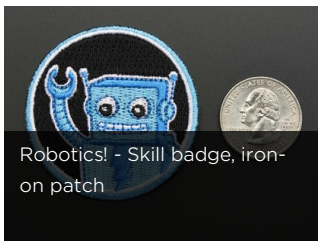
MAY WE ALSO SUGGEST...


Zumo Robot for Arduino


Parallax BOEBot Robot for Arduino Kit

Robotics! - Sticker!


Hexy - Programmable Hexapod Kit


Robotics! - Skill badge, iron-on patch


DC Motor in Micro Servo Body


Anodized Aluminum Metal Chasis for a Mini Robot Rover


Mini Round Robot Chassis Kit - 2WD with DC Motors


iRobot Create® 2 Programmable Robot


Mini Robot Rover Chassis Kit - 2WD with DC Motors


Supporting Swivel Caster Wheel - 1.3" Diameter


Top Metal Plate for a Mini Robot Rover Chassis

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