

Easy to Learn. Easy to Teach.

Robots from Plum Geek are ideal for classroom and workshop instruction. The robots work together with free lessons to teach students real-world written code skills.

The lessons and robots are appropriate for students with no coding experience, and no coding experience is required to teach the lessons either.

The Next Level for Scratch Programmers

Students who already know Scratch understand the logical flow of computer programs. Most robots in the real world are programmed using written languages like C and Python. The Wink, Ringo, and Spirit robots are perfect tools for students to graduate to the next level, and learn these real-world languages.

Free Coding Lessons

Educators love our written lessons. We skip over the dry boring theory and jump right into doing interesting things with the robots. Students continually move toward doing more interesting things while learning basic coding concepts along the way.

Learning while Doing

The best way to make learning fun is to start "doing" interesting things right away, with plenty of opportunity for experimentation. The lessons teach core concepts then encourage students to play and experiment on their own.

Educational Discounts

Contact us today to learn about educational discounts. We manufacture the robots in our own family-owned workshop near Portland, OR. We've worked to keep costs down so every student can experience the wonder of watching their own robot react to code they have written themselves.

We now ship robots world wide!







Visit www.plumgeek.com to learn more!



Wink2: The perfect transition from Scratch

Wink was specifically designed for new coders. Scratch teaches the basics of how programs flow. Wink graduates the students to the next level in their STEM education by teaching real-world programming using written code. The robot is cute, engaging, and fun for all.

You can learn or teach real-world C programming with Wink, even if you have no coding experience. We skip the dry boring theory and get straight into doing interesting things.









Wink Lessons

Educators love our written lessons. The lessons are geared toward new programmers, presenting core coding concepts in simple non-technical words. Students will "learn while doing", as they work toward fun tasks. They will pick up useful coding concepts along the way.

Overview

- Suitable for ages 8+ with an adult, 10+ working individualy
- Wink2 is programmed using Arduino, a free and easy to use programming environment.
- No building required. No tedious wiring or breadboard connections.
- Wink2 includes programmer hardware directly on the robot. Single USB conection used for programming and charging.
- Wink2's eyes can be individually set to any color, motors can be indivudlaly controlled forward and backward, and includes a sound chirper.
- Wink2 can demonstrate light seeking, obstacle dectection, line following, and more.
- Standard Version: \$69.95 USD
- Upgraded version with IR Remote: \$74.95
- Contact us for educational discounts.

Visit www.plumgeek.com to learn more!



Ringo2: STEM Robot with Extras

Ringo includes lots of sensors and personality. He is perfect for teaching written programming skills. Ringo is similar to Wink with more advanced hardware including a gyroscope and accelerometer for inertial navigation.

The advanced hardware on Ringo allows students to explore a large range of behaviors, personality, and swarming. They will get comfortable with C and C++ coding along the way.

Ringo Lessons

Ringo includes a free PDF guide book. The book can be used alone, or chapter by chapter as lessons in classrooms and workshops. The guide explains use of Ringo's various sensors along with code examples and challenges. You can also use Wink code directly on Ringo for students graduating to this more advanced robot.







Overview

- Suitable for ages 10+ with an adult, 12+ working individualy
- Ringo2 is programmed using Arduino, a free and easy to use programming environment. Also compatible with Wink2.
- No building required. No tedious wiring or breadboard connections.
- Ringo2 includes programmer hardware directly on the robot. A single USB conection used for programming and charging.
- Ringo2 has six NeoPixel lights that can be individually set to any color, motors can be indivudlaly controlled forward and backward, and includes a sound chirper that can make tones to play simple tunes.
- Ringo2 can demonstrate light seeking, obstacle dectection, inertial navigation, line following, swarming, and more.
- Ringo2 with IR Remote: \$99.95
- Contact us for educational discounts.

Visit www.plumgeek.com to learn more!



Spirit Rover: Advanced STEM Robot

A desktop version of the Mars Spirit Rover! Our flagship robot can be used in endless ways with advanced hardware, comunications, computer vision, and more.

The robot is built around a Raspberry Pi computer with lots of extra hardware including Arduino. Students learn Python, Linux, and C/C++ programming along with advanced real-world robotics concepts.

Spirit includes a simple Python library to make coding easy. Free tutorials guide teachers and students along the way.





• Suitable for

- Suitable for ages 10+ with an adult, 14+ working individualy. Ideal for classrooms, workshops, learning at home, and even serious robotics research.
- Programmed using Python and C/C++ on Raspberry Pi and Arduino. Operating system is Raspbian/Linux.
- Connect via internet or local network with WiFi. Also options for BlueTooth, XBee, and more.
- Can be run without Raspberry Pi using onboard Arduino compatible processor.
- 27 NeoPixel lights can be individually controlled, light sensors, 6 surface sensors, ultrasonic rangefinder, accelerometer & gyroscope, gripper, sound player, and more.
- A true "hacker's dream robot", endlessly configurable and programmable.
- Several configurations available from \$199 to \$329
- Contact us for educational discounts.

Visit www.plumgeek.com to learn more!

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