

Make: JavaScript Robotics



**Building NodeBots
with Johnny-Five**

Rick Waldron & Backstop Media

With Donovan Buck, Bryan Hughes, Pawel Szymczykowski, Raquel Velez, Kassandra Perch, Susan Hinton, Julian David Duque, Andrew Fisher, David Resseguie, Jonathan Beri, Emily Rose, Anna Gerber, Sara Gorecki & Lyza Danger Gardner

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create projects that light up make noise and more Create projects with complex output devices and employ the Johnny Five API to simplify the use of components that require complex interfaces such as I2C Make use of sensors and input devices to allow your robotics projects to survey the world around them and accept input from users Use the Sensor and Motor objects to make it much easier to move your robotics projects Learn about the Animation API that will allow you to program complex movements using timing and key frames Bring in other devices to your Johnny Five projects such as USB devices and remotes Connect your Johnny Five projects to external APIs and create your own Internet of Things In DetailThere has been a rapid rise in the use of JavaScript in recent times in a variety of applications and JavaScript robotics has seen a rise in popularity too Johnny Five is a framework that gives NodeBots a consistent API and platform across several hardware systems This book walks you through basic robotics projects including the physical hardware builds and the JavaScript code for them You ll delve into the concepts of Johnny Five and JS robotics You ll learn about various components such as Digital GPIO pins PWM output pins Sensors servos and motors to be used with Johnny Five along with some advanced components such as I2C and SPI You will learn to connect your Johnny Five robots to internet services and other NodeBots to form networks By the end of this book you will have explored the benefits of the Johnny Five framework and the many devices it unlocks Style and approachThis step by step guide to the Johnny Five ecosystem is explained in a conversational style packed with examples and tips Each chapter also explores the Johnny Five documentation to enable you to start exploring the API on your own

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components that require complex interfaces such as I2C Make use of sensors and input devices to allow your robotics projects to survey the world around them and accept input from users Use the Sensor and Motor objects to make it much easier to move your robotics projects Learn about the Animation API that will allow you to program complex movements using timing and key frames Bring in other devices to your Johnny Five projects such as USB devices and remotes Connect your Johnny Five projects to external APIs and create your own Internet of Things In Detail There has been a rapid rise in the use of JavaScript in recent times in a variety of applications and JavaScript robotics has seen a rise in popularity too Johnny Five is a framework that gives NodeBots a consistent API and platform across several hardware systems This book walks you through basic robotics projects including the physical hardware builds and the JavaScript code for them You ll delve into the concepts of Johnny Five and JS robotics You ll learn about various components such as Digital GPIO pins PWM output pins Sensors servos and motors to be used with Johnny Five along with some advanced components such as I2C and SPI You will learn to connect your Johnny Five robots to internet services and other NodeBots to form networks By the end of this book you will have explored the benefits of the Johnny Five framework and the many devices it unlocks Style and approach This step by step guide to the Johnny Five ecosystem is explained in a conversational style packed with examples and tips Each chapter also explores the Johnny Five documentation to enable you to start exploring the API on your own

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Table of Contents Javascript Robotics

1. Understanding the eBook Javascript Robotics
 - The Rise of Digital Reading Javascript Robotics
 - Advantages of eBooks Over Traditional Books
2. Identifying Javascript Robotics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Javascript Robotics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Javascript Robotics
 - Personalized Recommendations
 - Javascript Robotics User Reviews and Ratings
 - Javascript Robotics and Bestseller Lists
5. Accessing Javascript Robotics Free and Paid eBooks
 - Javascript Robotics Public Domain eBooks
 - Javascript Robotics eBook Subscription Services
 - Javascript Robotics Budget-Friendly Options

6. Navigating Javascript Robotics eBook Formats
 - ePub, PDF, MOBI, and More
 - Javascript Robotics Compatibility with Devices
 - Javascript Robotics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Javascript Robotics
 - Highlighting and Note-Taking Javascript Robotics
 - Interactive Elements Javascript Robotics
8. Staying Engaged with Javascript Robotics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Javascript Robotics
9. Balancing eBooks and Physical Books Javascript Robotics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Javascript Robotics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Javascript Robotics
 - Setting Reading Goals Javascript Robotics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Javascript Robotics
 - Fact-Checking eBook Content of Javascript Robotics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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