

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

Javascript Robotics

Patrick Vollmar



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JavaScript Robotics Backstop Media, Rick Waldron, Pawel Szymczykowski, Raquel Velez, Julian David Duque, Anna Gerber, Emily Rose, Susan Hinton, Jonathan Beri, Donovan Buck, Sara Gorecki, Cassandra Perch, Andrew Fisher, David Resseguie, Lyza Danger Gardner, Bryan Hughes, 2015-04-13 JavaScript Robotics is on the rise Rick Waldron the lead author of this book and creator of the Johnny Five platform is at the forefront of this movement Johnny Five is an open source JavaScript Arduino programming framework for robotics This book brings together fifteen innovative programmers each creating a unique Johnny Five robot step by step and offering tips and tricks along the way Experience with JavaScript is a prerequisite *Hands-On Robotics with JavaScript* Cassandra Perch, 2018-08-31 Leverage Raspberry Pi 3 and different JavaScript platforms to build exciting Robotics projects Key Features Build robots that light up and make noise Learn to work with Raspberry Pi 3 and JavaScript Connect your Johnny Five projects to external APIs and create your own IoT Book Description There has been a rapid increase in the use of JavaScript in hardware and embedded device programming JavaScript has an effective set of frameworks and libraries that support the robotics ecosystem Hands On Robotics with JavaScript starts with setting up an environment to program robots in JavaScript Then you will dive into building basic level projects such as a line following robot You will walk through a series of projects that will teach you about the Johnny Five library and develop your skills with each project As you make your way through the chapters you ll work on creating a blinking LED before moving on to sensors and other more advanced concepts You will then progress to building an advanced level AI enabled robot connect their NodeBots to the internet create a NodeBots Swarm and explore MQTT By the end of this book you will have gained hands on experience in building robots using JavaScript What you will learn Install and run Node js and Johnny Five on Raspberry Pi Assemble code and run an LED project Leverage JavaScript libraries to build exciting robots Use sensors to collect data from the world around you Employ servos and motors to make your project move Add internet capabilities to your Johnny Five project Who this book is for Hands On Robotics with JavaScript is for individuals who have prior experience with Raspberry Pi 3 and like to write sketches in JavaScript Basic knowledge of JavaScript and Node js will help you get the most out of this book **Learning JavaScript Robotics** Cassandra Perch, 2015-11-25 Design build and program your own remarkable robots with JavaScript and open source hardware About This Book Learn how to leverage Johnny Five s Read Eval Print Loop and Event API to write robot code with JavaScript Unlock a world of exciting possibilities by hooking your JavaScript programmed robots up to the internet and using external data and APIs Move your project code from the Arduino Uno to a multitude of other robotics platforms Who This Book Is For If you ve worked with Arduino before or are new to electronics and would like to try writing sketches in JavaScript then this book is for you Basic knowledge of JavaScript and Node js will help you get the most out of this book What You Will Learn Familiarise yourself with Johnny Five Read Eval and Print Loop REPL to modify and debug robotics code in real time Build robots with basic output devices to

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 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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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 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 **Make**

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Robotic Development with JavaScript Roland Parker,2024-11-13 Robotic Development with JavaScript brings readers into the dynamic world of intelligent robotics using the powerful tools of Node js Johnny Five and Robotics SDK From understanding the fascinating evolution of robots from mechanical automata to today s intelligent adaptable machines this book guides you through practical and hands on projects equipping you to build robots capable of real world interactions and sophisticated behaviors Perfect for developers eager to apply JavaScript skills in robotics this guide is packed with step by step instructions and real world applications making advanced robotic concepts accessible and engaging Ready to expand your programming capabilities and join the frontier of robotics innovation This book is your essential guide

Telematics Applications in Automation and Robotics 2004 Aarne Halme,2005-08-05 A proceedings volume from teh 1st IFAC Symposium Expo Finland 21 23 June 2004

Using JavaScript Andrew Wooldridge, Mike Morgan,1997 Aimed at immediate to advanced Web publishers this edition explores the new functions in JavaScript and their uses The CD ROM contains JavaScript and Java examples from the book as well as an additional code and examples not used in the book

Plug-In JavaScript 100 Power Solutions Robin Nixon,2010-11-05 100 JavaScript power solutions in one handy guide This practical resource contains 100 ready to run JavaScript plug ins you can use to create dynamic Web content The book begins by explaining JavaScript Cascading Style Sheets CSS and the Document Object Model DOM Then each chapter in Plug In JavaScript offers complete working examples for specific end results you can achieve right away Using these plug ins you ll be able to build JavaScript projects quicker and easier than ever as many complex tasks are reduced to a single function call Get ready made JavaScript plug ins for Resizing and repositioning objects Fading between objects Movement and animation Chaining and interaction Menus and navigation Text effects Audio and visual effects Cookies Ajax and security Forms and validation And much more Download all of the plug ins at the book s companion website

INST JAVASCRIPT, MCFARLANE,1998-01-07 A crash course in JavaScript language for developers with HTML knowledge this book covers Dynamic HTML the new JavaScript standard ECMAScript and both Netscape s and Microsoft s JavaScript implementations Detailed reference sections are included

Inside JavaScript Bill Bercik, Jill Bond,1996 This comprehensive guide will show you how to access JavaScript s true power by detailing not only its core functions but also how it operates with other popular technologies You ll learn how to use JavaScript to integrate LiveWire LiveWire Pro LivePayment LiveConnect and other applications to work together in concert as part of a whole Internet application framework In depth coverage and real world examples of using JavaScript with intranet applications are also provided Create useful and active multimedia web applications with Inside JavaScript

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businesses Contains resources for both common and hard to find parts and supplies Features dozens of sidebars to clarify essential robotics technologies Provides original articles on various robot building topics

Java 2 and JavaScript for C and C++ Programmers Michael C. Daconta, Al Saganich, Eric Monk, 1999-03-12 A must read Information Week from a review of Java for C C Programmers The quickest easiest way for C and C programmers to learn how to build full scale applications using Java TM and JavaScript TM Java 2 and JavaScript for C and C Programmers Featuring the rapid skill building format that made its predecessor such a huge critical success this powerful book CD package gets you up to speed on all of Java 2 s and JavaScript s features in no time Using a series of increasingly sophisticated working applications it explains basic and advanced Java techniques in terms that C and C programmers can relate to This revised edition includes updated coverage of JavaBean TM JFCs p9e RMI Security JDBC TM It also covers all new features found in Java 2 including Protected domains Reference objects Collections Package versions Drag and drop On the CD ROM you ll find All the source code from the examples in the book Loads of useful scripts and utilities ready to run Java documentation Java Multimedia demo Three additional bonus chapters

Advanced JavaScript Chuck Easttom, 2001 Focuses on professional level JavaScript techniques including the latest developments

PRO JAVASCRIPT, MCFARLANE, 1999-07-22 JavaScript is still in a growth phase as one of the primary scripting languages Written for JavaScript programmers seeking to increase their knowledge and programmers of other languages seeking to add JavaScript to their quiver of skills this book is packed full of practical tips real world examples and customizable scripts

Unmanned Ground Vehicle Technology ,2005

JavaScript: 20 Lessons to Successful Web Development Robin Nixon, 2015-01-30 Master JavaScript in 20 lessons online video tutorials included Based on the author s successful online courses this complete integrated learning tool provides easy to follow lessons that feature clear explanations sample code and exercises and video tutorials Each lesson is designed to take you less than an hour to complete JavaScript 20 Lessons to Successful Web Development covers the basics including variables operators arrays objects and values Next you ll learn how to use conditional statements work with multidimensional arrays manipulate objects handle errors manage cookies use Ajax and much more Together the book and almost five hours of video training make learning JavaScript easier than ever Ready to use code at www.mhprofessional.com

The Book of JavaScript Thau, 2000 The CD to accompany this book is held at the Reserve Desk with the same Dewey number

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web i am writing this letter to inform you about the financial hardship i have been facing over the past month because of which i have not been able to pay off my hoa payment for the previous month and for this reason i would like to request a release of any additional charges for my monthly fees

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web 2 hardship letter hoa payments 2022 06 22 hardship letter hoa payments downloaded from solutions milnerbrowne com by guest may mathews mortgagee review board lulu com ken koenen is a california attorney with a masters degree in tax law who has spent the last five years on cases involving people who either were

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web apr 28 2023 here is a step by step guide on how to write a hardship letter for hoa fees step 1 understand the hoa s policies before writing a hardship letter it is essential to understand aforementioned hoa s policies for late payments delinquent accounts and an steps they take into collect unpaid fees

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web addition and subtraction of polynomials practice multiple choice questions for each question four alternative choices are given of which only one is correct you have to select the correct alternative and mark it in the appropriate option 1 subtract and simplify $4a^2b - 5b^2 + 4a^2b + 3ab^2 + 2a^2b + 5ab^2 + 5a^2b + 2ab^2 + 2a^2b + 3ab^2 + 2a^2b + 3ab^2 + 5a^2b^2 + 2a^2b^2$

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web add subtract polynomials google classroom begin aligned $g + 3t + 2 + 5t + 6 + p + 8t + 2 + 7t + 9$ end aligned $g + 3t + 2 + 5t + 6 + p + 8t + 7t + 9 + g + p + p$ your answer should be a polynomial in standard form stuck

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web when adding or subtracting polynomials use the commutative and associative properties to regroup the terms in a polynomial into groups of like terms change subtraction including subtraction of the second polynomial to addition of the opposite when finding the opposite of a polynomial be sure to change the sign of each term then you can

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web oct 24 2022 this in addition to the commutative and associative properties of addition allows us to add polynomials example $5 + 2 + 1 + 3x + 4x + 5$ solution the property $a + b = b + a$ which was derived using the distributive property allows us to remove the parentheses so that we can add like terms answer

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web subtract the polynomials $9x^6 - 5x^7 + 14x^{13} - 4x$ $14x^{13} - 4x$ add the polynomials $x^2 + 5x^2 + 6x^2 + x^7 + 2 + 6x^2 + 5x^2 + 6x^2 + 5x^2 + 6x^7 + 7x^2 + 6x$ subtract the polynomials $x^2 + 5x^6 + x^2 + 2 + 5x^2 + 6x^2 + 5x^2 + 6x^2 + 5x^2 + 6x$

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web we re asked to simplify this huge long expression here x to the third plus $3x$ minus 6 that s in parentheses plus negative $2x$ squared plus x minus 2 and then minus the quantity $3x$ minus 4 so a good place to start we ll just rewrite this and see if we can eliminate the parentheses in this step

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web unit 4 polynomials practice test multiple choice identify the choice that best completes the statement or answers the question 1 which of the following expressions are monomials with degree 2 i ii iii iv a ii and iii b ii and iv c iii and iv d i and ii 2 identify the polynomial that is equivalent to i ii iii

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web 1 multiple choice 30 seconds 12 pts give the correct name for $2x^3$ quadratic monomial quadratic trinomial linear monomial cubic monomial 2 multiple choice 30 seconds 12 pts give the correct name for $3x^2 + 4x + 7$ quadratic trinomial linear binomial quartic trinomial linear trinomial 3 multiple choice 30 seconds 12 pts give the correct name for $2x^3 + 5x$

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web the set of polynomials is closed under addition and subtraction so the sum or difference of any two polynomials is also a polynomial to add polynomials add like terms you can use a vertical or a horizontal format adding polynomials find the sum a $2x^3 + 5x^2 + x^2 + x^3 + 1$ b $3x^2 + x^6 + x^2 + 4x + 10$ solution a

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web kuta software infinite pre algebra name adding and subtracting polynomials date period simplify each expression 1 5 5 n3 1 3n3 2 6a 3a2 2a2 3a 3 x2 x 8x 2x2 4 2a2 4a3 3a3 8 5 5x2 4 5 5x3 6 8n2 2n3 6n3 8n2

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web mar 20 2023 the given statement is true when adding or subtracting polynomials like terms can be simplified by adding or subtracting their numerical coefficients however the exponents of like terms should not be added or subtracted as they represent the degree of the variables in the polynomial