



Arduino Essentials

Explore the world of Arduino and its peripherals and start creating innovative projects

By **David Aguilar**

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Arduino Essentials Perea Francis

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[Arduino Essentials](#) Francis Perea,2015-02-24 [Arduino Essentials](#) Francis Perea,2015-02-24 If you are a hobbyist who wants to develop projects based on Arduino as the main microcontroller platform or an engineer interested in finding out what the Arduino platform offers then this book is ideal for you Some prior knowledge of the C programming language is required

Arduino by Example Adith Jagadish Boloor,2015-09-14 Design and build fantastic projects and devices using the Arduino platform About This Book Explore the different sensors that can be used to improve the functionality of the Arduino projects Program networking modules in conjunction with Arduino to make smarter and more communicable devices A practical guide that shows you how to utilize Arduino to create practical useful projects Who This Book Is For This book is an ideal choice for hobbyists or professionals who want to create quick and easy projects with Arduino As a prerequisite readers must have a working Arduino system and some programming background ideally in C C Basic knowledge of Arduino is helpful but not required to follow along with this book What You Will Learn Understand and utilize the capabilities of the Arduino Integrate sensors to gather environmental data and display this information in meaningful ways Add modules such as Bluetooth and Wi Fi that allow the Arduino to communicate and send data between devices Create simple servers to allow communication to occur Build automated projects including robots while learning complex algorithms to mimic biological locomotion Implement error handling to make programs easier to debug and look more professional Integrate powerful programming tools and software such as Python and Processing to broaden the scope of what the Arduino can achieve Practice and learn basic programming etiquette In Detail Arduino an opensource physical computing platform based on a simple microcontroller board and a development environment for writing software for the board The opensource Arduino software IDE makes it easy to write code and upload it to the board It runs on Windows Mac OS X and Linux The environment is written in Java and based on Processing and other opensource software With the growing interest in home made weekend projects among students and hobbyists alike Arduino offers an innovative and feasible platform to create projects that promote creativity and technological tinkering Arduino by Example is a project oriented guide to help you fully utilize the power of one of the world s most powerful open source platforms Arduino This book demonstrates three projects ranging from a home automation project involving your lighting system to a simple robotic project to a touch sensor project You will first learn the basic concepts such as how to get started with the Arduino and as you start building the project you will develop the practical skills needed to successfully build Arduino powered projects that have real life implications The complexity of the book slowly increases as you complete a project and move on to the next By the end of this book you will be able to create basic projects and utilize the elements used in the examples to construct your own devices Style and approach This book follows a project oriented approach with multiple images and plenty of code to help you build your projects easily The book uses a tutorial based methodology where the concepts are first explained and then implemented to help you

develop the projects Monitoreo, control y adquisición de datos con arduino y visual basic.net Rubén Oliva Ramos,2017-06-21 La presente obra constituye una excelente oportunidad para aprender a manejar la plataforma Arduino y la programación Visual Basic NET. Expone cada una de las funciones de la plataforma y la programación mencionadas utilizando proyectos explicados detalladamente como el uso de los módulos de comunicación XBEE para realizar una alarma inalámbrica integrando las tecnologías de Arduino y Visual Basic NET buscando conectar un sensor de movimiento PIR y efectuar la conexión de los módulos de comunicación con el software de la interfaz el control de dispositivos desde la interfaz para enlazar un módulo de relevador al Arduino que se podrá controlar desde la interfaz HMI la conexión de un motor de corriente directa al Arduino a través de un puente H para controlar el giro y la velocidad y con ello realizar la interfaz requerida para el control del dispositivo la realización de una alarma a través de una comunicación inalámbrica la aplicación de un sistema SCADA utilizando la tecnología NET y la plataforma de Arduino entre otros **Arduino** Byron Francis,2016-11-27 Arduino The Arduino is an incredible mini computer with a huge range of uses. This book will explain to you what an Arduino is and the different models and features available. You will learn how to use the many different functions of your Arduino and create some really cool projects. There are step by step instructions provided within showing you how to make several different projects including self tying shoelaces a rain sensing umbrella and much more. As you will soon discover the possibilities with the Arduino computer are endless. Here Is A Preview Of What You'll Learn: What Is Arduino, The Different Arduino Models, Features, Arduino Basics, Arduino Commands, Projects For Your Pets, Wearable Arduino Projects, How To Get The Most Out Of Your Arduino, Much More, Take Action Today and Learn Arduino In No Time. Click the Buy now with 1 Click to the right and get this guide immediately **Arduino Projects For Dummies** Brock Craft,2013-06-24 Discover all the amazing things you can do with Arduino. Arduino is a programmable circuit board that is being used by everyone from scientists, programmers and hardware hackers to artists, designers, hobbyists and engineers in order to add interactivity to objects and projects and experiment with programming and electronics. This easy to understand book is an ideal place to start if you are interested in learning more about Arduino's vast capabilities. Featuring an array of cool projects this Arduino beginner guide walks you through every step of each of the featured projects so that you can acquire a clear understanding of the different aspects of the Arduino board. Introduces Arduino basics to provide you with a solid foundation of understanding before you tackle your first project. Features a variety of fun projects that show you how to do everything from automating your garden's watering system to constructing a keypad entry system, installing a tweeting cat flap, building a robot car and much more. Provides an easy hands on approach to learning more about electronics, programming and interaction design for Makers of all ages. Arduino Projects For Dummies is your guide to turning everyday electronics and plain old projects into incredible innovations. Get Connected To find out more about Brock Craft and his recent Arduino creations visit www.facebook.com/ArduinoProjectsForDummies **Arduino for Beginners** John Baichtal,2013-11-22

ARDUINO for BEGINNERS ESSENTIAL SKILLS EVERY MAKER NEEDS Loaded with full color step by step illustrations Absolutely no experience needed Learn Arduino from the ground up hands on in full color Discover Arduino join the DIY movement and build an amazing spectrum of projects limited only by your imagination No geekitude needed This full color guide assumes you know nothing about Arduino or programming with the Arduino IDE John Baichtal is an expert on getting newcomers up to speed with DIY hardware First he guides you gently up the learning curve teaching you all you need to know about Arduino boards basic electronics safety tools soldering and a whole lot more Then you walk step by step through projects that reveal Arduino's incredible potential for sensing and controlling the environment projects that inspire you to create invent and build the future Use breadboards to quickly create circuits without soldering Create a laser infrared trip beam to protect your home from intruders Use Bluetooth wireless connections and XBee to build doorbells and more Write useful reliable Arduino programs from scratch Use Arduino's ultrasonic temperature flex and light sensors Build projects that react to a changing environment Create your own plant watering robot Control DC motors servos and stepper motors Create projects that keep track of time Safely control high voltage circuits Harvest useful parts from junk electronics Build pro quality enclosures that fit comfortably in your home [Arduino](#) Tim Warren,2020-03-24 The Arduino is an incredible mini computer with a huge range of uses This book will explain to you what an Arduino is and the different models and features available You will learn how to use the many different functions of your Arduino and create some really cool projects There are step by step instructions provided within showing you how to make several different projects including self tying shoelaces a rain sensing umbrella and much more As you will soon discover the possibilities with the Arduino computer are endless Here Is What You'll Learn About What Is Arduino The Different Arduino Models Features Arduino Basics Arduino Commands Projects For Your Pets Wearable Arduino Projects How To Get The Most Out Of Your Arduino Much Much More

[Arduino](#) Steve Gold,2017-06 New To Arduino This Is The Book For You NOW INCLUDES FREE GIFTS see below for details The Arduino boards and software were designed to make creating your own electronic masterpieces as simple as possible Whether you need a simple motion sensor or want to build a spectacular light display Arduino can help you to do that Whether you've just bought yourself your first Arduino or you're thinking of buying one and would like to know more before taking the plunge this book will provide you with all the information you need to take the first steps into the amazing world of Arduino Written with the absolute beginner in mind we'll be covering all of the essentials and answering all of the questions an Arduino newbie is likely to have First we'll look closely at areas such as Why choose Arduino What it is and why it's the platform to go for Getting to grips with the components of your Arduino The operating systems that your Arduino will run on The multitude of uses Arduino is suitable for A thorough breakdown of the anatomy of an Arduino board An introduction to the various Arduino models available and the differences between each How to set up the software required for the operation of your Arduino How to set up the board How to install the required drivers Launching the Arduino board

Creating your first Arduino sketch Uploading sketches to your Arduino board Troubleshooting when things don t go smoothly Your first Arduino project A step by step guide to your very first Arduino project Arduino survival lingo All of the technical terms you re likely to encounter in the world of Arduino Essential resources and further reading Next when you ve covered the absolute basics We ll get you to the position that you can start writing and saving your own sketches You no longer need to be limited by the sample sketches that you downloaded with the software or coding that you have had to beg borrow or steal to get you will be able to write it yourself from scratch You will learn some of the coding language that you will have to know and how to write the code so that your Arduino board is able to make sense of it We will go through the difference between analog and digital pins and how they are used on your Arduino board We will also go through how to set up your workspace and the tools that you need to have You will learn how to incorporate various sensors like a simple motion detector and how to program the system to use the sensors in a useful way like how to dim the lights etc with plenty of sample sketches that you can use to learn from You will learn how your Arduino board can produce sound and how you can use it to create tunes and control external music players You will learn how to plan your projects in a logical and organized manner so that they have the best chance of success from the outset You will be taught about breadboarding and how it can make your life a whole lot easier And last but certainly not least you will learn how to build your own basic robot from scratch in a matter of a few hours Take the first step towards mastering your Arduino board today Click the buy now button above for instant access Also included are 2 FREE GIFTS A sample from one of my other best selling books and a full length FREE BOOK included with your purchase

[Building Arduino PLCs](#) Pradeeka Seneviratne,2017-02-07

Learn the fundamentals of PLCs and how to control them using Arduino software to create your first Arduino PLC You will learn how to draw Ladder Logic diagrams to represent PLC designs for a wide variety of automated applications and to convert the diagrams to Arduino sketches A comprehensive shopping guide includes the hardware and software components you need in your tool box You will learn to use Arduino UNO Arduino Ethernet shield and Arduino WiFi shield Building Arduino PLCs shows you how to build and test a simple Arduino UNO based 5V DC logic level PLC with Grove Base shield by connecting simple sensors and actuators You will also learn how to build industry grade PLCs with the help of ArduiBox What You ll Learn Build ModBus enabled PLCs Map Arduino PLCs into the cloud using NearBus cloud connector to control the PLC through the Internet Use do it yourself light platforms such as IFTTT Enhance your PLC by adding Relay shields for connecting heavy loads Who This Book Is For Engineers designers crafters and makers Basic knowledge in electronics and Arduino programming or any other programming language is recommended

[Arduino](#) Dan Riley,2017-10-11

Arduino Master The Arduino Basics The Arduino board is one of the best options that you can use when it comes to working on your own electronic projects The board is easy to use it has a lot of versatility and the code isn t overly complicated When you bring this all together you are sure to get the results that you want no matter what project you are working on This

guidebook will spend some time talking about the different things that you need to know to gain mastery over the Arduino board. Some of the topics that we will discuss include Getting started with Arduino, The functions of Arduino, Learning some of the Arduino code, How to read the analog sensors on the Arduino board, How to store data on your Arduino, USB and Serial communication on your Arduino, Can Arduino work wirelessly, Other codes for the Arduino board. When you are ready to work on your very own electronics or robotics project it is time to use the Arduino board. This board is great for either beginners or experts and is so easy to learn how to use. When you are ready to get started make sure to read this guidebook and learn everything that you need to get started. Scroll Up And Click The BUY Button **Arduino Essentials** Alexandra Walker, 2016-11-14

Arduino is an open source project that created microcontroller based kits for building digital devices and interactive objects that can sense and control physical devices. The project is based on microcontroller board designs produced by several vendors using various microcontrollers. These systems provide sets of digital and analog input output I/O pins that can interface to various expansion boards termed shields and other circuits. The boards feature serial communication interfaces including Universal Serial Bus USB on some models for loading programs from personal computers. For programming the microcontrollers the Arduino project provides an integrated development environment IDE based on a programming language named Processing which also supports the languages C and C. The first Arduino was introduced in 2005 aiming to provide a low cost easy way for novices and professionals to create devices that interact with their environment using sensors and actuators. Common examples of such devices intended for beginner hobbyists include simple robots, thermostats and motion detectors. This updated and expanded second edition of Book provides a user friendly introduction to the subject. Taking a clear structural framework it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject. We hope you find this book useful in shaping your future career. Business **Arduino**

Measurement Projects for Beginners Simone Bales, 2018-10-19 Learn How to Measure Real world Physical Signals using Sensors and Arduino Uno. Do you want to build your own Temperature Measurement Project for your Home? Do you desire to Measure Sound Level and Light Intensity around you? This book Teaches you Handon Mode with Arduino and Takes you to the level of Programming and play with real world circuits. The Book Contents include Basics of Electronics, Introduction to Arduino Hardware and Software, Programming Structure, Getting Started with Arduino, Basics Projects Using Arduino Uno, Serial Monitoring with Arduino, LED Digital Write, Push Button, Switch, POT, Analog Read, Arduino Measurement Projects. Include Arduino Capacitance Measurement Project, Arduino Resistance Measurement Project, Measurement of Temperature and the List continues for 15 Projects that can be used in Real world Measurement **Arduino Unlocked** Mason Scott, 2024-11-26 Ready to dive into the world of creative electronics but don't know where to start? Arduino Unlocked is your

perfect guide Whether you're a complete beginner or simply looking to enhance your skills this easy to follow tutorial will teach you the basics of Arduino programming and hardware integration without the jargon With step by step instructions you'll master the essentials of setting up your Arduino board and connecting it to components like LEDs sensors and motors You'll learn how to read sensor data write simple yet powerful code and create interactive projects that bring your ideas to life Each chapter builds upon the last helping you gain confidence as you tackle more complex projects But that's not all Arduino Unlocked also breaks down key electronics concepts empowering you to explore the endless possibilities of Arduino By the end of this guide you'll have the skills to start creating your own electronics projects whether for fun learning or innovation Here's what you'll learn inside Master Arduino Basics Set up your Arduino board understand essential components like LEDs sensors and motors and get comfortable with hardware integration Easy to Follow Programming Learn how to write simple and effective code no prior coding experience required Control your devices with ease Interactive Projects Create hands on interactive systems by reading sensor data controlling actuators and bringing your ideas to life with practical projects Essential Electronics Concepts Understand the core principles of electronics from circuit design to debugging making complex ideas easy to grasp Hands On Experience Each chapter builds on the previous one offering real world projects and experiments that push your skills and creativity further Unlock Your Creativity Explore endless possibilities with Arduino and dive into the exciting world of DIY electronics robotics and more Whether you're learning for fun building cool projects or preparing for future innovations Arduino Unlocked is the perfect starting point to begin your creative electronics journey Start your creative electronics journey today no experience required Keywords Arduino programming beginner electronics DIY projects hardware integration sensor data interactive systems robotics Arduino guide electronics for beginners hands on learning *ESP32 Arduino Programming Essentials* Sarful Hassan, 2024-10-04 **ESP32 Arduino Programming Essentials** An Absolute Beginner Guide for IoT Development with ESP8266 is the perfect starting point for anyone interested in learning ESP32 programming using the Arduino IDE and exploring the world of IoT Internet of Things This beginner friendly book also covers the ESP8266 providing you with a comprehensive guide to the two most popular microcontrollers in the industry Whether you are a student hobbyist or aspiring IoT developer this book will take you step by step from the basics of ESP32 and ESP8266 hardware to creating real world IoT projects No prior programming experience is needed every concept is explained clearly and practically This is an Arduino Programming Essentials guide designed to help you get started quickly and confidently What You Will Learn Get an introduction to the ESP32 and ESP8266 microcontrollers and understand their pinouts and key features Learn Arduino programming basics like data types variables and control structures using the Arduino programming language Understand GPIO operations and control devices such as LEDs and buttons Set up Wi-Fi networking with ESP32 to connect to the internet and create IoT projects Create a web server using the ESP32 enabling remote control of connected devices Use deep sleep mode to make your projects more power efficient Projects Covered LED

control using GPIO pins with ESP32 and ESP8266 Establishing a Wi Fi connection and creating a simple web server for remote device control Setting up a Wi Fi network scanner and learning how to handle network connections Using analog inputs to control LEDs and other peripherals This book is loaded with practical projects and hands on examples to help you quickly build a solid foundation in Arduino programming for ESP32 and ESP8266 Whether you want to learn IoT for personal projects academic purposes or professional development this guide is your gateway to creating smart connected devices Key Features Beginner friendly Ideal for anyone wanting to learn ESP32 and ESP8266 programming with the Arduino IDE Step by step learning with practical projects to reinforce each topic Covers GPIO operations Wi Fi networking web server development and deep sleep mode for power efficiency Hands on projects to help you learn the essentials of IoT development using ESP32 and ESP8266 Perfect for hobbyists students and anyone eager to enter the exciting world of Internet of Things Get ready to unlock the potential of ESP32 and ESP8266 with ESP32 Arduino Programming Essentials an absolute beginner's guide that makes Arduino programming and IoT development accessible and fun

Mastering Arduino Jon

Hoffman,2018-09-28 Mastering Arduino is a practical no nonsense guide that will teach you the electronics and programming skills that you need to create advanced Arduino projects Key FeaturesCovers enough electronics and code for users at any levelIncludes complete circuit diagrams for all projectsFinal robot project combines knowledge from all the chaptersBook Description Mastering Arduino is an all in one guide to getting the most out of your Arduino This practical no nonsense guide teaches you all of the electronics and programming skills that you need to create advanced Arduino projects This book is packed full of real world projects for you to practice on bringing all of the knowledge in the book together and giving you the skills to build your own robot from the examples in this book The final two chapters discuss wireless technologies and how they can be used in your projects The book begins with the basics of electronics making sure that you understand components circuits and prototyping before moving on It then performs the same function for code getting you into the Arduino IDE and showing you how to connect the Arduino to a computer and run simple projects on your Arduino Once the basics are out of the way the next 10 chapters of the book focus on small projects centered around particular components such as LCD displays stepper motors or voice synthesizers Each of these chapters will get you familiar with the technology involved how to build with it how to program it and how it can be used in your own projects What you will learnExplains the basics of electronics and circuits along with the Arduino IDE and basic C operationsUse sensors to build a mini weather stationControl LEDs using codePower a robot arm using stepper motorsRemotely control your Arduino using RF Bluetooth LE and Bluetooth ClassicMake a sound tone generator with buttonsWho this book is for Mastering Arduino is for anybody who wants to experiment with an Arduino board and build simple projects No prior knowledge is required as the fundamentals of electronics and coding are covered in this book as well as advance projects

Arduino Made Simple

Pajankar Ashwin,2019-09-20 Arduino is an open source electronic prototyping platform based on flexible easy to use

hardware and software Key features Comprehensive coverage of various aspects of Arduino basics ecosystem and Arduino IDE Covers Arduino Uno Arduino Nano and introduces to the latest Arduino Tian which runs Linux Simple language crystal clear approach and straight forward comprehensible presentation Adopting user friendly style for explanation of circuit and code examples Illustrated with circuit diagrams screenshots and photographs Description The book is written in such a way that the concepts are explained in detail giving adequate emphasis on circuits and code examples To make the topics more comprehensive circuit diagrams and code snippets are furnished extensively throughout the book The book is designed in such a way to make it reader focused and contains latest topics circuit diagrams code examples reference The book also features the most current and popular Arduino boards It teaches novice beginners how to create interesting electronics project with Arduino platform and ecosystem It also benefits the professional level programmers to get started with Arduino platform and ecosystem What will you learn Arduino Arduino PWM Writing Programs for Arduino LED Programming Programming with Push Buttons Analog Inputs and Various Buses Working With Displays Sound and Sensors Arrays strings and memory Matrix Keypad And Security System SD Card Module IR Receiver and Relay Arduino Nano and Arduino Tian Who this book is for Students pursuing BE BSc ME MSc BTech MTech in Computer Science Electronics Electrical Table of contents 1 Introduction to Arduino 2 Getting Started 3 Writing Programs for Arduino 4 LED Programming 5 Programming with Push Buttons 6 Analog Inputs and Various Buses 7 Working With Displays 8 Arrays strings and memory 9 Working with Sound and Sensors 10 More Sensors 11 Arduino PWM 12 Matrix Keypad And Security System 13 SD Card Module IR Receiver and Relay 14 Arduino Nano and Arduino Tian 15 Miscellaneous Topics 16 Important Questions Unsolved About the author Ashwin Pajankar is a polymath He is a Science Popularizer a Programmer a Maker an Author and a Youtuber He is passionate about STEM Science Technology Education Mathematics education He is also a freelance software developer and technology trainer He graduated from IIIT Hyderabad with M Tech in Computer Science and Engineering He has worked in a few multinational corporations including Cisco Systems and Cognizant for more than a decade His Website <http://www.ashwinpajankar.com> His LinkedIn Profile <https://www.linkedin.com/in/ashwinpajankar/> *Arduino for Beginners* Julian James McKinnon, 2021-03-25 55% OFF for Bookstores Would you like to create some amazing projects with just some elementary knowledge about coding Are you interested in creating your own codes but you don't have any of the experience that is needed to get started The Arduino board is designed to help us to get started with learning all of the coding and technology that we want in a simple board that is easy to learn cost effective and a lot of fun Think you can't learn how to code with a simple board Think again This guidebook is going to show us all of the steps that we need to take in order to learn how to do all of the programming projects that we want And it is just the size of your wallet Don't think this is possible Then read on Some of the great things that you can learn about programming with the Arduino board that is found in this guidebook will include the following The basics that you need to know about Arduino how the board will work and even how to set up our

board so we can start working with it Some of the basics of coding with Arduino and how to begin writing our own programs How to take the Arduino board and turn it into your own personal machine to use however you want A look at the C language and how it can be used on your Arduino board How to work with the logic statements the operators and how to do computer interfacing with your board The different API functions of this board and how they will affect the projects that you can use A look at the stream class and how this can help us to work with the strings in our code A finale on how to create our own user defined functions to really add some power to our codes and programs Programming and creating our own projects is no longer reserved for those who have a lot of money or who have been able to work with technology for years Arduino is designed for beginners and can ensure that we can actually create some of the projects that you want This guidebook will show you exactly how easy it can be to make some of your own codes and programs and all you really need is a simple Arduino board With the help of this guidebook you will not believe how fast and easy it is to learn how to program Ready

Arduino for Beginners Matthew Oates,2019-12-18 The Arduino is a small computer originally created in Italy It is small functional and most importantly affordable It can be used for a wide range of projects and is great fun for anyone to learn and use This guide covers the basics of the Arduino including the different models what s included how to use the Arduino and some different projects to try As your skills develop the amount of Arduino projects you can complete is virtually limitless This book will serve as an introduction to the Arduino system and will have you proficient and confident in using it in no time Here Is What You ll Learn About The Basics of ArduinoDifferent Arduino Models Their FeaturesHow To Install

SoftwareArduino Projects To TryHandy Tips TricksMuch Much More *Arduino* Julian James McKinnon,2020-11-08 Would you like to create some amazing projects with just some elementary knowledge about coding Are you interested in creating your own codes but you don t have any of the experience that is needed to get started The Arduino board is designed to help us to get started with learning all of the coding and technology that we want in a simple board that is easy to learn cost effective and a lot of fun Think you can t learn how to code with a simple board Think again This guidebook is going to show us all of the steps that we need to take in order to learn how to do all of the programming projects that we want And it is just the size of your wallet Don t think this is possible Then read on Some of the great things that you can learn about for programming with the Arduino board that is found in this guidebook will include the following The basics that you need to know about Arduino how the board will work and even how to set up our board so we can start working with it Some of the basics of coding with Arduino and how to begin writing our own programs How to take the Arduino board and turn it into your own personal machine to use however you want A look at the C language and how it can be used on your Arduino board How to work with the logic statements the operators and how to do computer interfacing with your board The different API functions of this board and how they will affect the projects that you can use A look at the stream class and how this can help us to work with the strings in our code A finale with how to create our own user defined functions to really add some power

to our codes and programs Programming and creating our own projects is no longer reserved for those who have a lot of money or who have been able to work with technology for years Arduino is designed for beginners and can ensure that we can actually create some of the projects that you want This guidebook will show you exactly how easy it can be to make some of your own codes and programs and all you really need is a simple Arduino board With the help of this guidebook you will not believe how fast and easy it is to learn how to program Ready

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Arduino Essentials Perea Francis Introduction

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