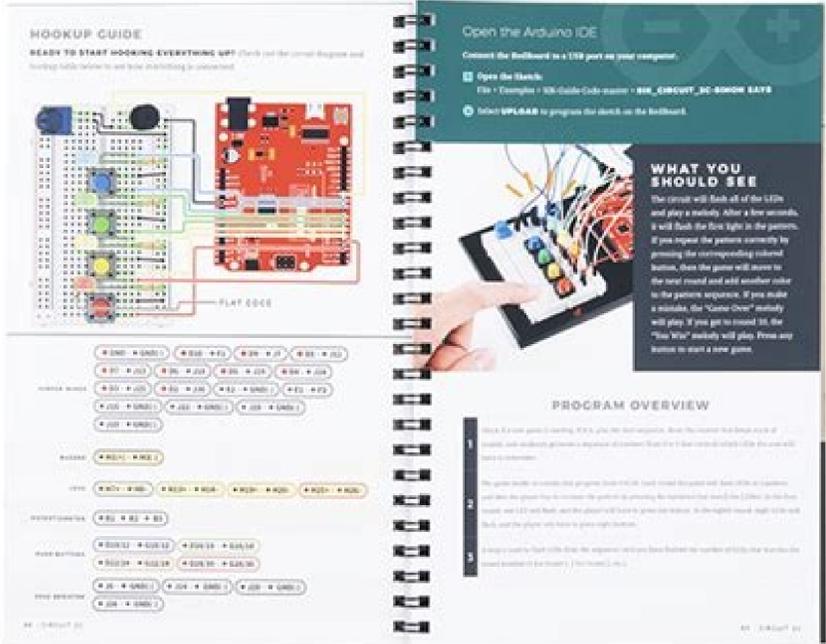


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Sparkfun inventor's kit - v4.1.

BOK-14326 The Arduino microcontroller makes it easy to learn about electronics, but it can be hard to know where to start. The 10 projects in this book are designed to help you get started with electronics. Contributors: Joel E. B. Favored Favorite 8 Please note that this tutorial is for the SparkFun Inventor's Kit version 4.0 using the RedBoard with FTDI. If you are using version 4.1, please refer to the tutorial using the RedBoard Qwic and CH340. The overall functionality of the circuits used in the kits are the same between v4.0 and v4.1. If you have SIK v3.3 or are using parts from the add-on pack, please refer to this tutorial. The SparkFun Inventor's Kit (SIK) is your map for navigating the waters of beginning embedded electronics. This guide contains all the information you will need to build five projects encompassing the 16 circuits of the SIK. At the center of this guide is one core philosophy: that anyone can (and should) play around with electronics. When you're done with this guide, you will have built five projects and acquired the know-how to create countless more. Now enough talk — let's start something! The print version of this guide is available as a PDF as well. Click the following link to download it. Keep in mind that the original file size used for the printed guidebook was reduced for the web. While the file size was reduced, it is still about a 26MB download. Notice: This online guide is kept up to date with all the most recent improvements and corrections. For users following along with the printed version of this guide, please visit sparkfun.com/SIKerrata for any and all changes that may affect your experience while using the printed guide. Choosing a Kit You should have one of the two following versions of the SIK. If you need an overview of the parts included in your kit, please click on the product link below. 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Note: The Arduino Uno version of the kit does not include a carrying case or printed copy of this manual to decrease weight and cost for international shipping. Note: You can complete all 16 experiments in this guide with either kit. If you need more information to determine which microcontroller is right for you, please check out the following tutorials. What is this 'Arduino' thing anyway? This tutorial dives into what an Arduino is and along with Arduino projects and widgets. Favored Favorite 46 Open Source! At SparkFun, our engineers and educators have been improving this kit and coming up with new experiments for a long time now. We would like to give attribution to Oomlout, since we originally started working off their Arduino Kit material many years ago. The Oomlout version is licensed under the Creative Commons Attribution Share-Alike 3.0 Unported License. The SparkFun Inventor's Kit V4.0 is licensed under the Creative Commons Attribution Share-Alike 4.0 International License. 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B. Favored Favorite 2 The SparkFun Inventor's Kit (SIK) is your map for navigating the waters of beginning embedded electronics. This guide contains all the information you will need to build five projects encompassing the 16 circuits of the SIK. At the center of this guide is one core philosophy: that anyone can (and should) play around with electronics. When you're done with this guide, you will have built five projects and acquired the know-how to create countless more. Now enough talk — let's start something! The print version of this guide is available as a PDF as well. Click the following link to view it. SparkFun Inventor's Kit - v4.0 You should have one of the two following versions of the SIK. If you need an overview of the parts included in your kit, please click on the product link below. 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The SparkFun Inventor's Kit V4.0 is licensed under the Creative Commons Attribution Share-Alike 4.0 International License. View as a single page Next Page → Baseplate Assembly Reviews (0) Continue shopping View cart & checkout Contributors: Joel E. B. Favored Favorite 8 Please note that this tutorial is for the SparkFun Inventor's Kit version 4.0 using the RedBoard with FTDI. If you are using version 4.1, please refer to the tutorial using the RedBoard Qwic and CH340. The overall functionality of the circuits used in the kits are the same between v4.0 and v4.1. If you have SIK v3.3 or are using parts from the add-on pack, please refer to this tutorial. The SparkFun Inventor's Kit (SIK) is your map for navigating the waters of beginning embedded electronics. This guide contains all the information you will need to build five projects encompassing the 16 circuits of the SIK. At the center of this guide is one core philosophy: that anyone can (and should) play around with electronics. 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The SparkFun Inventor's Kit V4.0 is licensed under the Creative Commons Attribution Share-Alike 4.0 International License. View as a single page Next Page → Baseplate Assembly Reviews (0) Continue shopping View cart & checkout Contributors: Joel E. B. Favored Favorite 8 Please note that this tutorial is for the SparkFun Inventor's Kit version 4.0 using the RedBoard with FTDI. If you are using version 4.1, please refer to the tutorial using the RedBoard Qwic and CH340. The overall functionality of the circuits used in the kits are the same between v4.0 and v4.1. If you have SIK v3.3 or are using parts from the add-on pack, please refer to this tutorial. The SparkFun Inventor's Kit (SIK) is your map for navigating the waters of beginning embedded electronics. This guide contains all the information you will need to build five projects encompassing the 16 circuits of the SIK. At the center of this guide is one core philosophy: that anyone can (and should) play around with electronics. 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For more detailed, step-by-step instructions for setting up the Arduino IDE on your computer, please check out the following tutorial. A step-by-step guide to installing and testing the Arduino software on Windows, Mac, and Linux. Favored Favorite 16 In order to get your microcontroller up and running, you'll need to download the newest version of the Arduino software first (it's free and open source!). This software, known as the Arduino IDE, will allow you to program the board to do exactly what you want. It's like a word processor for writing code. Download Arduino Code You are so close to being done with setup! Download the SIK Guide Code. You can also download the code from GitHub or click the following link to download the code. Place the SIK-Guide-Code folder in the Arduino IDE examples directory: Windows: drag the SIK-Guide-Code-V4.0a folder into C:\Program Files\Arduino-x\examples Note: For those that automatically installed the Arduino IDE on a Windows 64-bit computer, the Arduino program folder may be located in the "C:\Program Files (x86)..." folder. MacOS: Right-click on the Arduino IDE app and click "Show Package Contents...". Drag the SIK-Guide-Code-V4.0a folder into Contents/Resources/Java Linux: see Connect the Microcontroller to your Computer Use the USB cable provided in the SIK kit to connect the included microcontroller (RedBoard or Arduino Uno) to one of your computer's USB inputs. Install FTDI Drivers Depending on your computer's operating system, you will need to follow specific instructions. Please go to How to Install FTDI Drivers, for specific instructions on how to install the FTDI drivers onto your RedBoard. Select your Board: Arduino/Genuino Uno Before we can start jumping into the experiments, there are a couple adjustments we need to make. This step is required to tell the Arduino IDE which of the many Arduino boards we have. Go up to the Tools menu. Then hover over Board and make sure Arduino Uno is selected. Please note: Your SparkFun RedBoard and the Arduino Uno are interchangeable but you won't find the RedBoard listed in the Arduino Software. Select "Arduino/Genuino Uno" instead. Next up we need to tell the Arduino IDE which of our computer's serial ports the microcontroller is connected to. For this, again go up to Tools, then hover over Port (Serial Port in older Arduino versions) and select your RedBoard or Arduino's serial port. This will be the same serial port seen when installing FTDI drivers. With that, you're now ready to begin building your first circuit! Welcome to your first SparkFun Inventor's Kit project. Each project is broken up into several circuits, each designed to help you learn about new technologies and concepts. The knowledge gained from each circuit will play a part in building each

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