
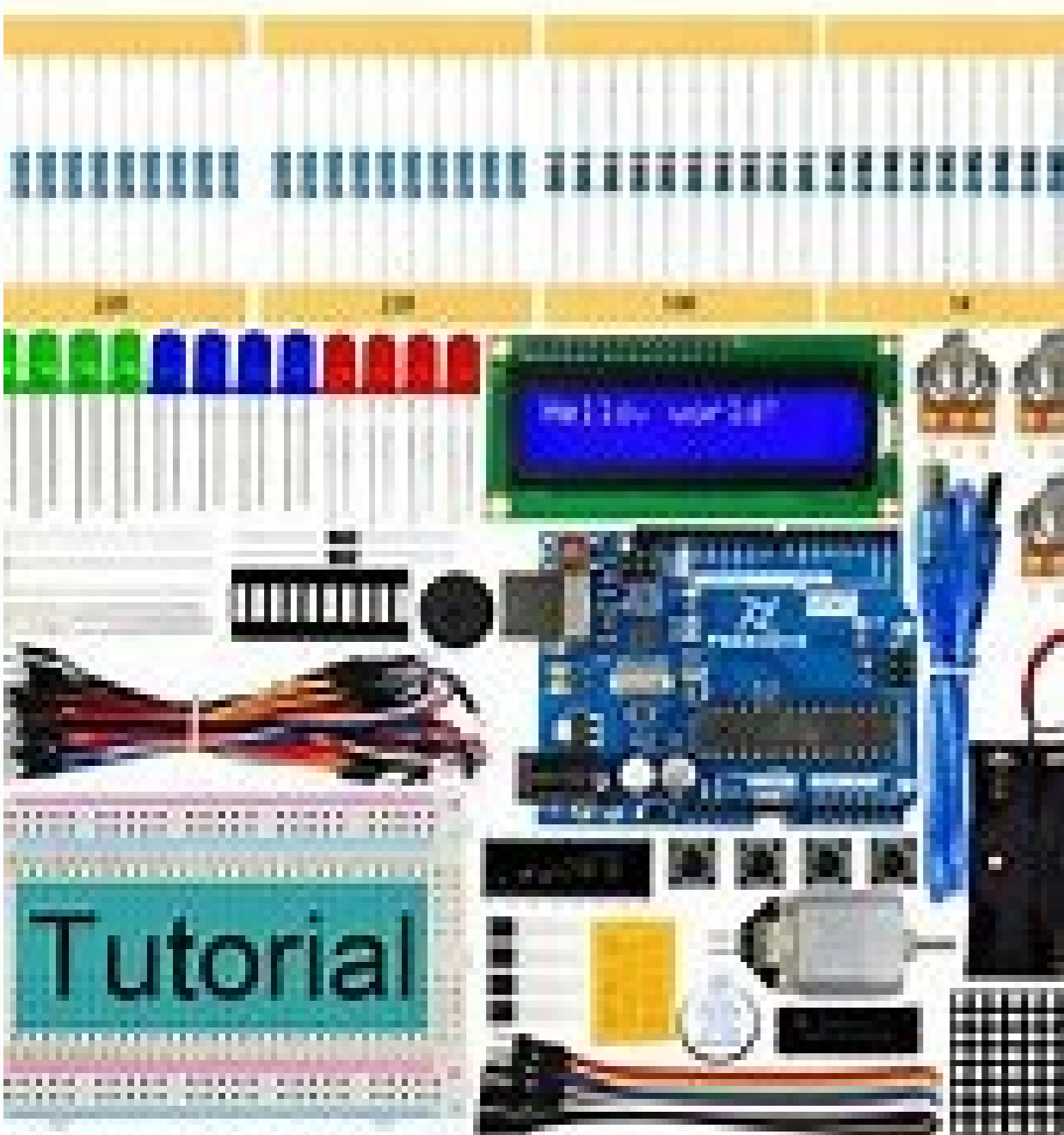


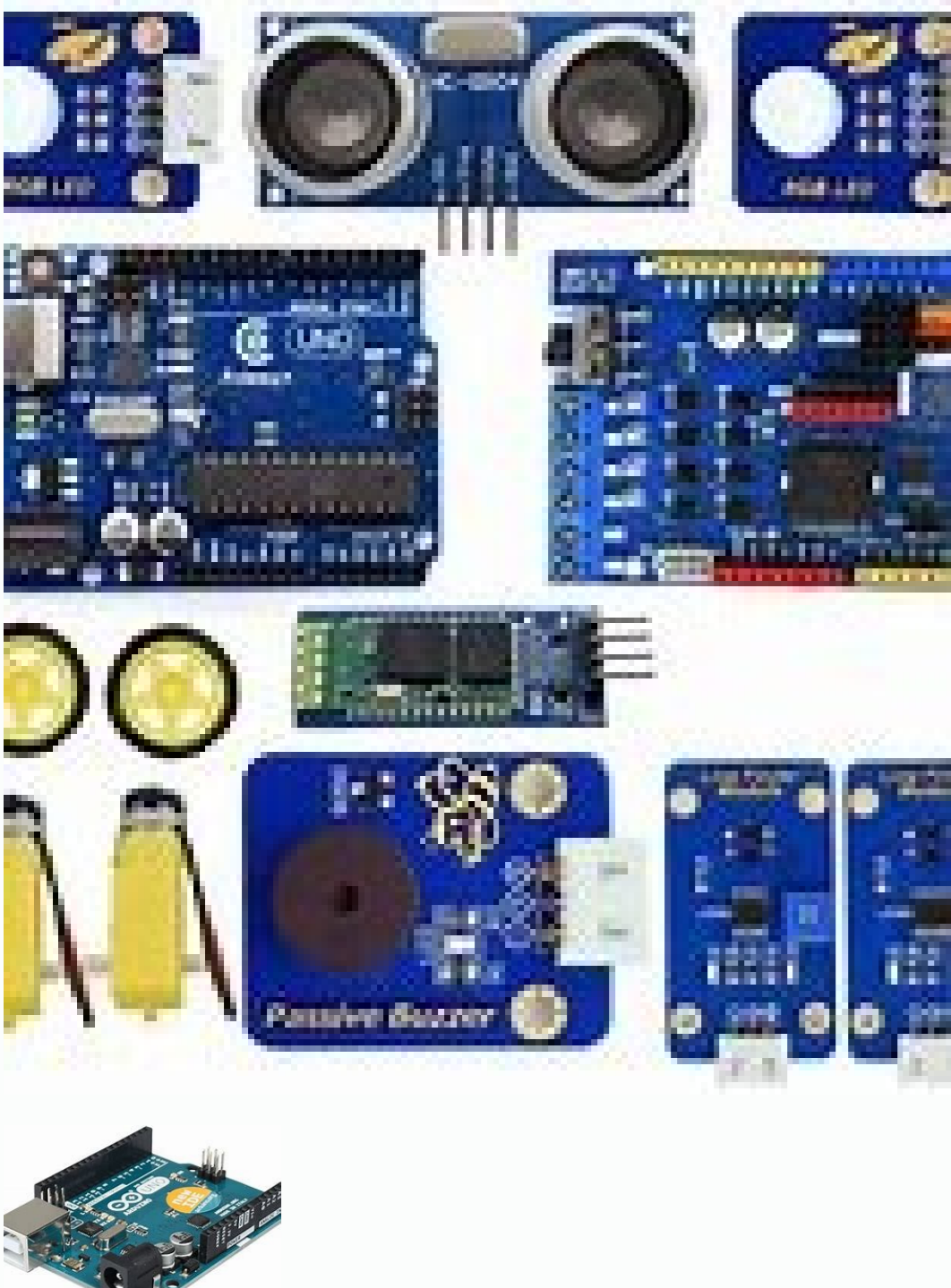
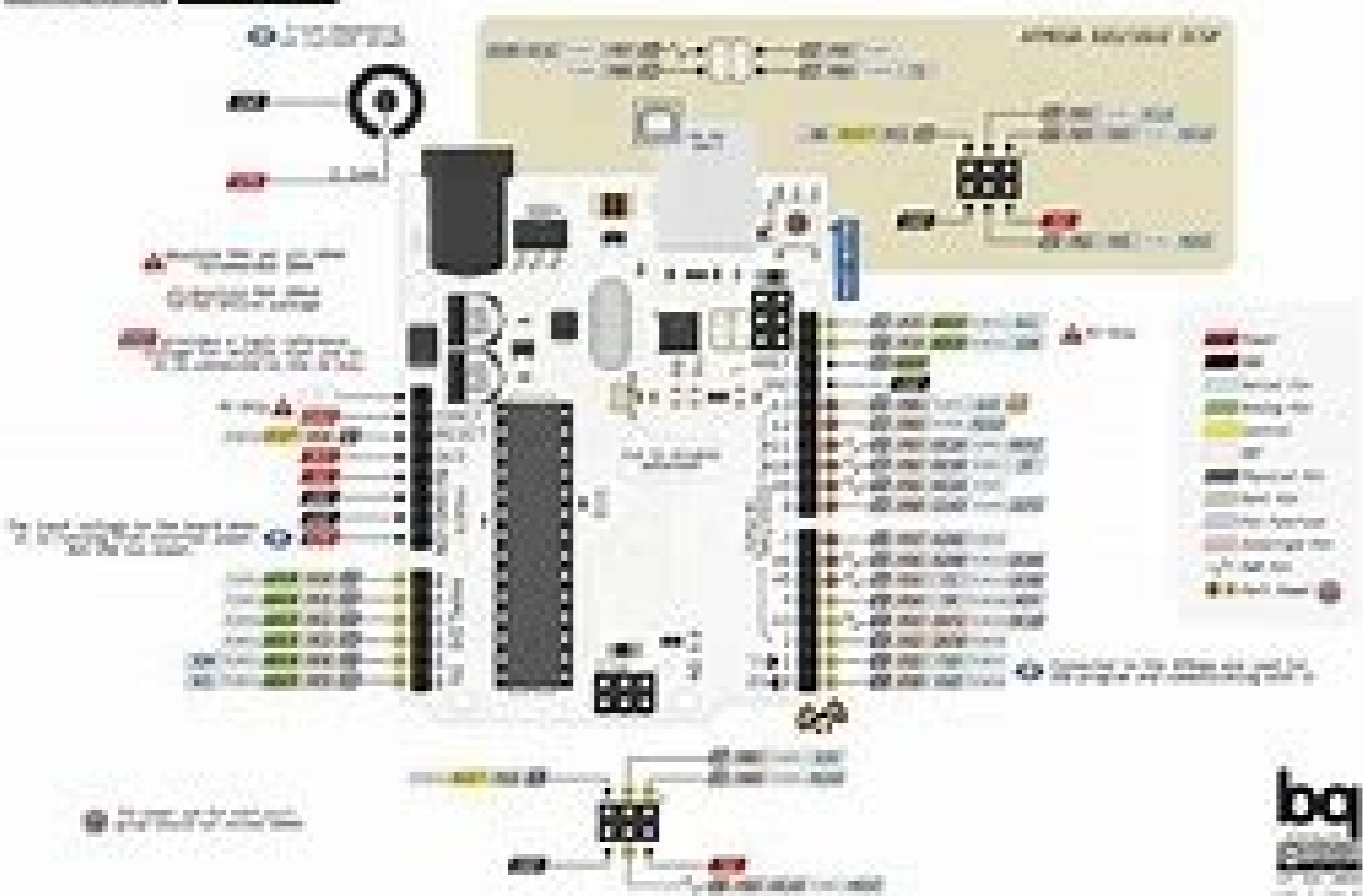
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I just got your arduino, but you don't know what to do with that? No worries that today, we've compiled 20 fresh Arduino projects to get started! These 20 projects are carefully involved and are some of my personal favorites! You have no idea what an arduino is? Check out our guide to what Arduino is for an introduction to the Arduino! Easier way to get started with Arduino projects! The world of Arduinos may be daunting for a beginner, but we've got you covered! Here to see, we have created a kit consisting of 10 different sensors with a tutorial on how to get started! Grove Beginner Kit for Arduino with 10 sensors and 12 projects Learning Arduino is not easy, as you will need to understand the hardware, programming and connection methods. Do not be afraid Grove's Beginner's Kit for Arduino is an all-in-one kit that doesn't require breadboard, soldering or wiring! It comes with 10 sensors and a step-by-step tutorial of 12 different projects for you to have the best learning experience about Arduinos! Find out more at Seed's online store! Without more information, jump to the top 20 Arduino Uno R3 2021 projects! Stay tuned to the end, as I'll show you a selection guide on how to choose the right Arduino Board for your next project. 1. Arduino Music Instrument Ref: LANMILAB Want to use gesture control and dumbbells to control your Arduino UNO R3? With this project, you can make that happen! Through this project, you will use a table called Flick, which is a PCB that can detect your gestures up to 15 cm away in 3D space. Draw a circle, slide your hand: Flick will track it. With Flick, the possibilities are endless! Now you can control your computer, TV, music system and many more with a doll movie! In this project, we will be using Flick with the Arduino Uno to create a musical. What do you need? (Apart from Arduino uno) interested? You can consult the complete tutorial by LANMILABS at Arduino Project Hub! 2. Arduino Arduino. Fingerprint door lock Ref: AVAA6As144A Aja Do you always lose your keys but don't want to install a fingerprint door lock because of its high price? What if I told you you could build your own fingerprint lock with only \$70? With this project, you no longer have to worry about losing your keys as this door opens when you touch your fingerprints. What do you need? (Apart from Arduino ONE) If you're interested, you can find the complete loovee tutorial at Seed Project Hub! 3.

Arduino Robot Car Ref: Howtomechanics Combining DC and Arduino engines is always fun. And when it comes to DC engines, one of the many things we can do with them is of course to make a car engine! Through this tutorial, you will learn how to make your own robot car from scratch and control it with the Arduino UNO along with a Motor Driver L298N! What do you need? (Apart from Arduino ONE) Interested? You can find the complete tutorial on HowtoMechanics! 4. Arduino ONE Portable Game Console Ref: DIYTech Smartphone & iPad game is great and everything but nothing can beat the charm of making your own game console and playing with it. Using the ONE you can easily make a game console and develop your own game and play it. In this project, we will learn how to upload and develop the popular "Snake Game" as a demo. What do you need? (Different from Arduino ONE) Li-Ion BatteryATmega328P Microcontroller2 x MAX7219CNGBI-color Dot Matrix Display 6 x Grove push buttons/touch switch Buzzer 5 x 5mm LED15 x Resistance 10k Ohm4 x capacitor 10 pF2 x capacitor 1 I 14 F 3 x IC Base165mm x 73mm PCB Board If you need basic components such as resistors, LEDs and capacitors, consider our 20 in 1! Basic Components Mixed pack containing all the basic components! Interested in this project? You can see the full tutorial of Md. Khairul Alam in project center! 5. A Home Appliances Do you want to automate your appliances and make your home smarter? With the help of a simple Android Android the Arduino ONE and some modules, you can control electrical appliances with clicks or voice commands using Bluetooth! Now, you can sit quietly on your sofa and turn on or off any device without getting up! What do you need? (Apart from Arduino ONE) Interested? You can find the complete tutorial at electronicsforu! 6. Arduino ONE car and truck simulator Inspired by Silas Parker Did you know that there is a technology called CAN (Controller Area Network) that can be used to allow microcontrollers and devices like the Arduino to communicate with each other inside a vehicle without a central computer that allows control and acquisition data? Would you like to know more? You can consult our guide for an introduction to the CAN-BUS and how to use it with Arduino Through this project, we will make use of the CAN technology and create a car/truck simulator with a real dashboard on your PC with the ONE and a CAN-BUS Shield! What do you need? (Apart from Arduino ONE) Interested? You can watch the full tutorial at SeeedStudio Community! 7. UNO Universal Remote Control Do you have multiple remote controls there? Do you want to get rid of them and replace them with a single universal remote control? With this project, you can! Through this project, you will convert a normal Keyes infrared (IR) remote control into a programmable universal remote control. What do you need? (Apart from Arduino UNO) Interested in finding out more? You can see the full ScottC tutorial at Hackster.io! 8. Tripwire Laser Alarm Security System Ref: SurtTech Security systems are often expensive to install and also expensive to maintain. Why not create with an Arduino along with other modules for less than \$30? Through this project, a laser braided cable alarm system will be created where, once the laser beams are cut, the alarm will be triggered and will not stop until a button is pressed. Besides, you can configure a passcode to make it even safer, where it now requires you to enter an passcode to stop it. stop it. alarm. What do you need? (Apart from Arduino one) interested? You can consult the full Surrtech tutorial in Hackster. 9. Arduino Meteorological Station with Nexcius Screen Ref: EDUC8S With a Nexcision screen, you can create your own meteorological information system where you can report the temperature and humidity of the weather easily. If you do not know what a Nexción screen, you can check our guide on the introduction to the Human Machine Interface with Nextion. With easy use software, you can also add more functions and features easily to your screen! What do you need? (Apart from Arduino one) interested? You can find the complete educ8s tutorial on instructable! 10. The OLED RTC watch does not want to buy a new watch? Why do not you build one with the addition of an RTC module (real-time clock) to easily make an OLED digital clock with the UN to show the date, time and day? Curious about what do you need a separate module to keep track of the time when your arduino already has a built-in timetable? Discover the answer in our guide on RTC! What do you need? (Apart from Arduino one) interested? You can find the full tutorial on simple projects! 11. HX711 and Drilling Bag of the Arduino Charging Cell Will any time wonder how much power is in that blow of yours? Why do not you try to make a drilling bag with a force meter to measure the amount of force of your blow in Newtons! Through this project, it will learn how to measure your power power using a load cell and HX711 along with the Arduino. What do you need? (Apart from Arduino one) interested? You can find the complete tutorial by Electropeak in Arduino Project Hub! 12. DIY Arduino RC Hovercraft Ref: How do you want to increase the robot automobile game? Why do not you build a floating hovercraft that can be controlled using a remote control? LA how a hovercraft can rise into the air and many more through this project! What do you need? (Apart from Arduino Uno) interested? You can find the complete tutorial with 3D print instructions, circuit diagram at HOWTOMECHATRONICS. 13. Arduino ping pong game Remember this popular retro ping pong game? Well, it can be built and controlled easily with one and some common components. What do you need what you need? (Apart from Arduino one). intense? You can see the full tutorial in ElectronicsForu! 14. WALKIE-TALKIE Wrist Watch Ref: RIC2011A You want to communicate with your friends in a fun and fun way? Why do not you try this portable walkie-talkie inspired by the Mighty Morphin Power Rangers? What do you need what you need? (In addition to 2 Arduino one)? You can find the full tutorial for this project by OHOILETT in instructable! 15. Arduino RFID Door Lock Ref: Howtomechanics There are many ways to make your traditional door lock intelligent by fingerprints, access code, etc. And this RFID door lock also! As it works is that if a tag / card is close to the scanner, the door will open automatically and after closing it, it will be locked automatically. A convenient form! No more tanks with the keys, just press your card and your door is open. Not to mention, it is cheap to build too! What do you need what you need? (Apart from Arduino one), intense? You can find the full tutorial for this RFID project in HowtomeChatronics! 16. Automated plant irrigation system REF: RBATES4 Are you tired of your plants die and want something to take care of your plants? Are you going somewhere and you can not take care of your precious plants? If your answer is Yes, this Arduino project will be only for you! With this automated irrigation system, it will automatically deliver an adjustable water volume of up to 4 floors to the day or once a day, according to what you specify (up to seven days). It even comes with artificial sunlight so that its plants grow healthy. What do you need what you need? (Apart from ONE) Interested? You can find the complete rbates4 tutorial on Instructables! 17. Raspberry Pi Arduino Intelligent Tea Sensor Ref: Aboutcircuits A Do you ever find find Opening a container of tea/coffee bags without tea or coffee beans? This is one of the saddest moments you could experience, so we have a solution to solve it! With this project, we will be building a smart tea bag container sensor to estimate the number of tea bags left behind, which will inform us if we start to run out. What do you need? (Apart from Arduino Uno) interested? You can find the complete tutorial about all the circuits! 18. Arduino GSM Light Mobile Phone REF: AVISHEK Do you feel that your mobile phone is too heavy for your taste or too expensive? Why not try to make yourself that is light and capable of national and international characteristics? This Arduino mobile phone is able to make calls, receive calls and also send and receive SMS as well. It uses a GSM module to connect to the mobile network and the connection screen to display the GUI interfaces. What do you need? (Apart from Arduino Uno) interested? You can find the complete tutorial by Avishek on Hackster.IO! 19. DIY Low Cost Air Hockey Board Ref: Technovation projects as a professional configuration of air hockey are usually only available at arcades due to their sophisticated system, it is difficult to really enjoy the gaming experience in the comfort of your own home. But what if I told you, you can build it yourself easily and at a low cost? This project is customized and easily scalable where if you want your air hockey table to be a bigger size, you can! What do you need? (Apart from Arduino Uno) interested? You can find the complete tutorial for this project made by Technovation at Instructables! 20. Automated cocktail beverage machine Ref: Camdens5 Finally, we have a cocktail beverage machine! This automated cocktail machine is not your alcohol dispensing machine It consists of 4 different stations to make sure your cocktail tastes as good as what you get at the bar. The seasons are: automated mint, sugar and lime mess to release all the flazoursautomated lime. lime. Mint and sugar dispenserAutomated liquid dispenser With this project, you will certainly meet all your alcohol needs. What do you need? (Apart from Arduino ONE) Interested? You can find the complete tutorial for this project by CamdenS5 at Instructables! Summary These are just some of the Arduino UNO R3 projects to make your brain juices flow and start working on the Arduino UNO. If these projects are not what you're looking for, you can see Seeed Project Hub, Hackster.io, Instructables or Arduino Project Hub which has more than 200 Arduino UNO projects with source codes, schematics and also DIY instructions! Here at Seeed, we also offer several Arduino boards like the Nano, MKR1000, Mega, Micro, Pro Mini and many more! Not to mention that we also have our own line of compatible boards, Seeedino, which is very profitable. Looking for Arduino Shields or modules and sensors? We got them too! Arduino Table Selection Guide There are many different Arduino tables available, but how do we choose? Here is a cumulative table with all the different Arduino tables available and their various specifications for you! Do you want to learn more? Check out the "Guide to Selection of Arduino Tables"! Whoa!

