



## Cours Arduino/C 1ère partie

Ce document fait suite au document [www.didel.com/diduino/Start.pdf](http://www.didel.com/diduino/Start.pdf) , qui se borne à vérifier que l'environnement Arduino est opérationnel, et tester le programme qui clignote une Led. Si cela vous a paru déjà difficile, passez d'abord par le document très progressif de B.Carvel: <http://mediawiki.e-apprendre.net/index.php/Diduino-Robot>  
 Si vous connaissez les instructions du C et désirez comprendre les composants électroniques et leur programmation, [www.didel.com/diduino/Composants.pdf](http://www.didel.com/diduino/Composants.pdf) vous amène rapidement à ce qui vous intéresse.

Cette 1ère partie ne va pas plus loin que le i.f, mais elle s'efforce de bien expliquer les bases. Deux poussoirs et leurs pull-up de 4k7 à 100k, une Led et sa résistance de 1 à 4k7 et un buzzer et sa résistance de 47 à 220 Ohm sont nécessaires pour les tests et exercices.  
 La plupart des programmes expliqués se trouvent sous [www.didel.com/diduino/Cours.zip](http://www.didel.com/diduino/Cours.zip)

### 1.1 Règle générale pour tous les programmes

On doit "configurer" l'application, c'est-à-dire mentionner les pins que l'on utilise, dire si ce sont des entrées ou sorties. C'est le **setup**.

On doit ensuite dire ce que l'on va faire en boucle (le processeur ne sait pas arrêter de travailler)

C'est le **loop**. Avec des parenthèses, accolades, point-virgules au bon endroit , comme le veut le C!

### 1.2 Clignoter une Led

Sur toutes les cartes Arduino, on a sur la pin 13 une Led déjà câblée. Elle s'allume si la pin 13 est à l'état "1" (HIGH, tension de 5V). Pour clignoter cette Led, il faut écrire:

Le nom du fichier en commentaire  
 Un objet Led est branché sur la pin 13, à laquelle on donne un nom lié à l'objet.

la pin13 appelée Led, est une sortie

on répète sans fin  
 allumer la Led  
 attendre une demi-seconde  
 éteindre la Led  
 attendre une demi-seconde  
 recommencer (fin partie répétée)

```
// Clignote.ino
#define Led 13

void setup ()
{
  pinMode (Led, OUTPUT);
}

void loop ()
{
  digitalWrite (Led,HIGH);
  delay(500); // 500 millisecondes
  digitalWrite (Led,LOW);
  delay(500);
}
```

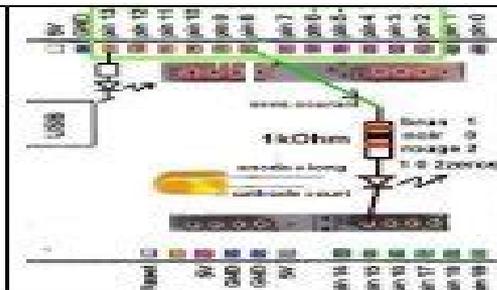
Il faut accepter sans bien comprendre pour le moment les mots codes, la présence de ( ) ; { } et respecter ces notations scrupuleusement , de même que les minuscules et majuscules. Le compilateur, qui fait la traduction est intolérant, et ses messages ne sont pas toujours faciles à comprendre.

### 1.3 Exercice

Changer la durée de Led allumée. Réduire de moitié, un quart, plus. La diminution apparente de visibilité est-elle linéaire? On voit encore avec 1ms?

### 1.4 Exercice

Câbler une Led sur la pin 6, avec le courant qui part vers le - (Gnd). L'ordre résistance-Led n'a pas d'importance, mais la pin courte (cathode) doit être du côté du moins . Une résistance de 1 à 4k Ohm convient.



# Arduino C Cours 01 1 Didel News Fr Arduino Grove

**Raffaela Di Napoli**



## **Arduino C Cours 01 1 Didel News Fr Arduino Grove:**

*Beginning C for Arduino* Jack Purdum, 2013-02-01 *Beginning C for Arduino* is written for those who have no prior experience with microcontrollers or programming but would like to experiment and learn both This book introduces you to the C programming language reinforcing each programming structure with a simple demonstration of how you can use C to control the Arduino family of microcontrollers Author Jack Purdum uses an engaging style to teach good programming techniques using examples that have been honed during his 25 years of university teaching *Beginning C for Arduino* will teach you The C programming language How to use C to control a microcontroller and related hardware How to extend C by creating your own library routines During the course of the book you will learn the basics of programming such as working with data types making decisions and writing control loops You ll then progress onto some of the trickier aspects of C programming such as using pointers effectively working with the C preprocessor and tackling file I O Each chapter ends with a series of exercises and review questions to test your knowledge and reinforce what you have learned *Beginning C for Arduino, Second Edition* Jack Purdum, 2015-06-30 *Beginning C for Arduino Second Edition* is written for those who have no prior experience with microcontrollers or programming but would like to experiment and learn both Updated with new projects and new boards this book introduces you to the C programming language reinforcing each programming structure with a simple demonstration of how you can use C to control the Arduino family of microcontrollers Author Jack Purdum uses an engaging style to teach good programming techniques using examples that have been honed during his 25 years of university teaching *Beginning C for Arduino Second Edition* will teach you The C programming language How to use C to control a microcontroller and related hardware How to extend C by creating your own libraries including an introduction to object oriented programming During the course of the book you will learn the basics of programming such as working with data types making decisions and writing control loops You ll then progress onto some of the trickier aspects of C programming such as using pointers effectively working with the C preprocessor and tackling file I O Each chapter ends with a series of exercises and review questions to test your knowledge and reinforce what you have learned *Learning C for Arduino* Syed Omar Faruk Towaha, 2017-03-24 *Ultimate guide for programming Arduino with C About This Book* Get hands on experience with the Arduino board and learn to control it with your programming skills Learn the essential concepts of C such as variables data structures functions loops and pointers Work with electronic devices such as LEDs switches and motors and connect them to Arduino using C Who This Book Is For This book is for hobbyists who have no knowledge about programming and microcontrollers but are keen to learn C programming using a very affordable hardware device What You Will Learn Play with mathematical operations using C Use logical operations and loops to play with LEDs and the Arduino board Create custom functions using C and connect an SD card to the Arduino Use Object oriented Programming to connect a GSM module to the Arduino board Play with an LCD board and Servo using standard Arduino libraries Build projects using

Arduino such as a LED cube a smart weather system and home security Identify and fix common errors on an Arduino board In Detail This book will start with the fundamentals of C programming and programming topics such data types functions decision making program loops pointers and structures with the help of an Arduino board Then you will get acquainted with Arduino interactions with sensors LEDs and autonomous systems and setting up the Arduino environment Moving on you will also learn how to work on the digital and analog I O establish serial communications with autonomous systems and integrate with electronic devices By the end of the book you will be able to make basic projects such as LED cube and smart weather system that leverages C Style and approach This comprehensive step by step guide starts with the basic concepts of C for your Arduino board It will teach you how to leverage C to explore the capabilities of Arduino [Arduino Programming](#)

Damon Parker, Are you new to Arduino programming Would you like to expand your knowledge base about Arduino programming Do you desire to enjoy the fantastic features of Arduino technology If you said YES to any or all of the questions above this book is all you need Starting Arduino programming allows you to rapidly and intuitively develop your programming abilities through sketching in code This book provides you with an understanding of the standard structure for developing Arduino code including the functions syntax structure and libraries needed to produce future tasks It is specifically written to help you get the understanding required to master the fundamental aspects of writing code on the Arduino platform and will have you all set to take the next step to explore new project ideas new kinds of hardware and contribute back to the open source community and even take on more programming projects With this book you can go from an Arduino beginner to an Arduino pro in a much shorter time This is a resource book to get started with if you want to find out about the world of Arduino and how it changes the world we live in This book will help you comprehend the basic principles of Arduino its advantages benefits and applications in numerous markets and platforms Completely simplified for easy understanding this bestselling guide explains how to compose well crafted sketches using Arduino s modified C language You will discover how to configure software and hardware develop your own sketches deal with built in and custom made Arduino libraries and check out the Internet of Things all with no prior programming experience required It teaches you everything you require to become proficient in Arduino from scratch Learn the variants in Arduino find out how to select Arduino boards and their technical specs learn how to install Arduino IDE That s what you ll find What Is Arduino Programming Introduction to Arduino Programming Language How to Configure Arduino Why Arduino The Arduino KIT Arduino Board Description Arduino Program Structure Arduino Variables and Constants String Arrays Character Manipulating String Arrays Functions to Manipulate String Arrays Arduino String Object Stating Arrays Pins Configured as INPUT Benefits and Disadvantages of Identical Communication And a lot more You will also find out how to configure your Arduino interface board to pick up the physical world control light movement and sound and create objects with interesting features This ultimate guide gets you up to speed quickly teaching all the concepts and syntax through simple language and

clear guidelines developed for outright beginners It contains lots of top quality illustrations and easy to follow examples Are you ready to explore the amazing benefits of this book Grab your copy now **Arduino Book for Beginners** Mike Cheich,2021-07-01 If you've ever wanted to build and control electronic devices then learning to program Arduino development boards is the kick start you're looking for The Arduino Book for Beginners is a tutorial style collection of lessons designed to be simple and easy to follow which uses only the most relevant circuits and programs and assumes nothing about your prior electronics or programming experience The book also comes with access to over 15 supplemental video lessons to help drive home concepts These supplemental video lessons are pulled from training at Programming Electronics Academy the premiere online training website for learning to program Arduino What you will Learn How to program your Arduino from variables to arrays for loops and if statements How to make your Arduino respond to sensors How to communicate to your computer with the Arduino How to build teleporters levitating fortresses and nuclear reactors maybe a stretch This book covers the most useful enlightening and simplest examples to get you started on the road to hacking just about anything What to Expect Step by step instructions to walk you through building circuits and programming your Arduino Each line of code in the programs are discussed to maximize your understanding of the fundamentals Repetition of the basic programming building blocks are used to increase your retention of the material Only a handful of additional parts are necessary to complete the course lessons many of which are reused from lesson to lesson reducing your investment in learning how to use Arduino The simple building blocks you learn will be put together to build more complex examples Each lesson ends with suggestions of experiments to try on your own These are generally simple changes that make you think about the operation of the Arduino and the underlying programming language It is doing these where you will learn the most Get Started Now There is no better time to jump in than now The Arduino community is vibrant and growing **C Programming for Arduino** Julien Bayle,2013-05-17 Written as a practical Packt book brimming with engaging examples C Programming for Arduino will help those new to the amazing open source electronic platform so that they can start developing some great projects from the very start This book is great for people who want to learn how to design build their own electronic devices From interaction design art school students to the do it yourself hobbyist or even simply people who want to learn electronics this book will help by adding a new way to design autonomous but connected devices *Programming Arduino Getting Started with Sketches* Simon Monk,2011-12-22 Program Arduino with ease Using clear easy to follow examples Programming Arduino Getting Started with Sketches reveals the software side of Arduino and explains how to write well crafted sketches using the modified C language of Arduino No prior programming experience is required The downloadable sample programs featured in the book can be used as is or modified to suit your purposes Understand Arduino hardware fundamentals Install the software power it up and upload your first sketch Learn C language basics Write functions in Arduino sketches Structure data using arrays and strings Use Arduino's digital and analog inputs

and outputs in your programs Work with the Standard Arduino Library Write sketches that can store data Program LCD displays Use an Ethernet shield to enable Arduino to function as a web server Write your own Arduino libraries In December 2011 Arduino 1.0 was released This changed a few things that have caused two of the sketches in this book to break The change that has caused trouble is that the classes Server and Client have been renamed to EthernetServer and EthernetClient respectively To fix this Edit sketches 10.01 and 10.02 to replace all occurrences of the word Server with EthernetServer and all occurrences of Client with EthernetClient Alternatively you can download the modified sketches for 10.01 and 10.02 from here <http://www.arduino.cc/arduino-1.0/> Make Great Stuff TAB an imprint of McGraw Hill Professional is a leading publisher of DIY technology books for makers hackers and electronics hobbyists *Arduino Programming Crash Course For Beginners To Pro* Roger Edward,2020-09-10 Do you wish to know more about Arduino Then read on The Arduino board is a small powerful technology that can be used to produce wonderful magic It is capable of performing different functions and it is very easy to operate With this book you will be furnished with the step by step process on how to set up your Arduino board as well as program the software correctly This book contains images and icons to teach the reader how to set up and configure the Arduino software without making any errors With this book in your hands any dummy can set up and learn the different types of programming languages Some of the things you will get in this book include Introduction to Arduino What Arduino is used for What are Microcontrollers Types of Arduino Board and how to set them up for use How to Install the Arduino Software How to Install the Arduino IDE on Windows How to Install Drivers for Older Arduino Boards How to Install the Arduino IDE on Mac OS X How to Install the Arduino IDE on Linux How to operate the Arduino software Arduino Data Types How to Compile and Upload Programs on Arduino Arduino Programming Serial Communication Using C C Serial Communication Using Java Serial Communication Using Ruby Serial Communication Using Python Serial Communication Using Perl How to create bigger projects with the Arduino And Lots More Please click on the BUY NOW WITH 1 CLICK button to get started [Programming and Interfacing with Arduino](#) Yogesh Misra,2021-09-06 Programming and Interfacing with Arduino provides an in depth understanding of the Arduino UNO board It covers programming concepts working and interfacing of sensors input output devices communication modules and actuators with Arduino UNO board This book contains a large number of programming examples along with the description and interfacing details of hardware with Arduino UNO board It discusses important topics including SPI communication protocol I2C communication protocol light emitting diode potentiometer analog to digital converter pulse width modulation temperature sensor LM35 humidity and temperature sensor DHT11 motor driver L293D LED interfacing and programming and push button interfacing and programming Aimed at senior undergraduate students and professionals in areas such as electrical engineering electronics and communication engineering this text Discusses construction and working of sensors including ultrasonic sensor temperature sensor and optical sensor Covers construction working programming and interfacing of IO

devices Discusses programming interfacing construction and working of relay with the Arduino board for controlling high voltage devices Covers interfacing diagram of devices with the Arduino board Provides videos demonstrating the implementation of programs on the Arduino board

*C Programming for Arduino* Julien Bayle, 2015-02-21 Building your own electronic devices is fascinating fun and this book helps you enter the world of autonomous but connected devices After an introduction to the Arduino board you'll end up learning some skills to surprise yourself Overview Use Arduino boards in your own electronic hardware software projects Sense the world by using several sensory components with your Arduino boards Create tangible and reactive interfaces with your computer Discover a world of creative wiring and coding fun In Detail Physical computing allows us to build interactive physical systems by using software hardware in order to sense and respond to the real world C Programming for Arduino will show you how to harness powerful capabilities like sensing feedbacks programming and even wiring and developing your own autonomous systems C Programming for Arduino contains everything you need to directly start wiring and coding your own electronic project You'll learn C and how to code several types of firmware for your Arduino and then move on to design small typical systems to understand how handling buttons leds LCD network modules and much more After running through C C for the Arduino you'll learn how to control your software by using real buttons and distance sensors and even discover how you can use your Arduino with the Processing framework so that they work in unison Advanced coverage includes using Wi-Fi networks and batteries to make your Arduino based hardware more mobile and flexible without wires If you want to learn how to build your own electronic devices with powerful open source technology then this book is for you What you will learn from this book Understand what an Arduino board is Sense the world through a variety of digital inputs Feel the world with analog sensors Design a visual output feedback system Use Max6 and Processing with Arduino Connect your Arduino to wired and wireless networks Add GPS localisation modules to your Arduino Approach Written as a practical Packt book brimming with engaging examples C Programming for Arduino will help those new to the amazing open source electronic platform so that they can start developing some great projects from the very start Who this book is written for This book is great for people who want to learn how to design build their own electronic devices From interaction design art school students to the do it yourself hobbyist or even simply people who want to learn electronics this book will help by adding a new way to design autonomous but connected devices

**Arduino Programming in 24 Hours, Sams Teach Yourself** Richard Blum, 2014-08-08 In just 24 sessions of one hour or less Sams Teach Yourself Arduino Programming in 24 Hours teaches you C programming on Arduino so you can start creating inspired DIY hardware projects of your own Using this book's straightforward step by step approach you'll walk through everything from setting up your programming environment to mastering C syntax and features interfacing your Arduino to performing full fledged prototyping Every hands on lesson and example builds on what you've already learned giving you a rock solid foundation for real world success Step by step instructions carefully walk you through the most

common Arduino programming tasks Quizzes at the end of each chapter help you test your knowledge By the Way notes present interesting information related to the discussion Did You Know tips offer advice or show you easier ways to perform tasks Watch Out cautions alert you to possible problems and give you advice on how to avoid them Learn how to Get the right Arduino hardware and accessories for your needs Download the Arduino IDE install it and link it to your Arduino Quickly create compile upload and run your first Arduino program Master C syntax decision control strings data structures and functions Use pointers to work with memory and avoid common mistakes Store data on your Arduino s EEPROM or an external SD card Use existing hardware libraries or create your own Send output and read input from analog devices or digital interfaces Create and handle interrupts in software and hardware Communicate with devices via the SPI interface and I2C protocol Work with analog and digital sensors Write Arduino C programs that control motors Connect an LCD to your Arduino and code the output Install an Ethernet shield configure an Ethernet connection and write networking programs Create prototyping environments use prototyping shields and interface electronics to your Arduino

**Arduino Programming for Beginners** Matthew Python,2020-01-22 Would you like to control switch LED and so on by simply programming them with a single board even without changing the board itself when something goes wrong Arduino is a fascinating platform used to build electronic projects It is preferred by a lot of experts just starting out electronic projects That is because of the ease of operation that it offers and its wide range of simple versions that you can try The Arduino board is processed to use simple chips called Microcontrollers It uses these with its Microcontroller board Coding with an Arduino program can make it pretty easy to control your electronics You may control switch LED and so on by simply programming them with Arduino board You don t have to change the whole board when something goes wrong each faulty microchip can be easily replaced Besides these it is cost effective than other most of the other programs The surprising news is that despite being a very thrilling program a lot of people do not understand how Arduino program works Many tried to operate it without learning they found it impossible so they gave up Similarly research shows that a lot of interested amateurs tried to learn Arduino programming too but they made no breakthrough because their teachers knew too little or could not break things down for them Arduino is too intriguing to be dumped It is for the purpose of those who do not have any background in Arduino programming that the Matthew Python and the editorial team have put together a masterpiece that can give a bit by bit guide to every beginner interested in learning Arduino Arduino Programming for Beginners How to learn and understand Arduino hardware and software as well as the fundamental concepts with this beginner s guide getting started Arduino Sketches by Matthew Python This books can teach you every basic knowledge you need to have about Arduino programming Ranging from the keywords to the terms and operation It is packed with a lot of installation sketching and control steps that makes it hard for anyone to miss the lessons You will find help on how you can troubleshoot when you need to the function of I O FTDI chips and so on If all you knew was the term Arduino program earlier this book provides

details of everything you are missing Among others you will learn What is Arduino Understanding of Arduino Anatomy of Arduino Board Arduino Family Explanation of Arduino Components Getting started with Arduino Basic digital Arduino programs Basic analog Arduino programs Arduino programming tools Inputs outputs and sensor Arduino function libraries Computer interfacing with an Arduino C language basics Arduino clones and similar boards Troubleshooting Wouldn't you like more to know more about this operation Getting this book is how you can learn it all yourself you will realize how the full concept of Arduino and you can try it out yourself Scroll up and add to cart Arduino Programming for beginners by Matthew Phytton **Arduino Electronics Blueprints** Don Wilcher,2015-07-24 This book is intended for those who want to learn about electronics and coding by building amazing devices and gadgets with Arduino If you are an experienced developer who understands the basics of electronics then you can quickly learn how to build smart devices using Arduino The only experience needed is a desire to learn about electronics circuit breadboarding and coding *Arduino for dummies* John Nussey,2021 *Arduino* Ethan Thorpe,2020-03-15 Manuscript 1 Quite a few technology boards are responsible for building digital devices They are actually the bedrock of how these devices function However Arduino boards are making immense waves in the digital production world nowadays as it is now primarily used for creating digital devices as well as other interactive materials with the capacity to control things physically around the human sphere To make things more clear this book will enlighten the readers to know more about what Arduino is all about and encourage the best practices for learning and executing Arduino programming from scratch This book will be a pathway where you'll learn everything you need to know about Arduino programming step by step Some of the few things you will be learning about Arduino in this book include Arduino's software and hardware as well as several others of the applications that you will be able to make use of in and about the Arduino board Different Arduino data types available Strings and Functions Codes for buildup Arrays and sensors Important necessities to remember so you can avoid making mistakes And a whole lot more This expansive book on Arduino programming for beginners is laced with quite a lot of useful information that will guide the readers throughout their Arduino programming journey holding you by hand and explaining in specific detail including visual aids to guide you Manuscript 2 This book is for electronics and embedded system enthusiasts With the help of our smart little superhero ARDUINO you'll be able to reproduce many things in your home that you only see in the movies We will start from the absolute basics Hence no prior programming knowledge is required to understand and perform the projects in this book This book is a complete step by step guide to get acquainted with the Arduino platform and learn how to program the Arduino boards We will also teach you the C programming language used to program the microcontrollers and basic concepts of the programming Arduino is a powerful technology and you can create any embedded product you can think of We'll take a look at the different Arduino boards and understand which board is suitable for a particular application We'll also help you understand how to set up the Arduino IDE and program the Arduino boards With a little bit of time some modules and some

sensors you can turn your home into what used to be only seen in sci fi movies The future is now Manuscript 3 The advanced Arduino book is designed for all those who love Arduino As a part of the series publication on Arduino this book has well established techniques of exciting projects for those who want to go a step further In the book you will learn the control of LEDs WiFi audio management and communications as well as much more The book consist of 10 chapters and in the introduction the mechanization of the basic programming knowledge in the Arduino development environment Arduino IDE Get the most out of your Arduino Use WiFi and Bluetooth with Arduino Optimize your applications Discover a multitude of sensors and actuators The main objective of this book is to expand in depth knowledge about the Arduino platform to readers who have studied the basic and intermediate Arduino books of this series or those who already have knowledge about the platform and experience in carrying out projects with Arduino After thoroughly reading this book you will be able to carry out complex projects learn about Arduino programming beyond the Arduino core interact with the outside world through orders sent from a computer or from a mobile device and communicate via the Internet You will also be able to create your own libraries or modify existing ones to improve functionalities Grab this 3 book bundle now and start learning Arduino

Arduino Zach Webber,2018-06-05 Arduino programming is hard There s a ton of information to learn and a whole lot to take in in order to get the most out of your Arduino programming suite That s why you could use a resource like this one This is the best book on the market for learning Arduino programming bar none Throughout this book we re going to be reviewing a few basic concepts in more depth covering tricky new concepts like managing memory as well as jumping headfirst into the Arduino API and breaking down a lot of key functions that will help you to do a whole lot of super cool things With Arduino you can finally make your dreams come true and tinker some of your crazy ideas to life This guide intends to give you everything that you need in order to do that So what are you waiting for Jump on the Arduino train now and learn to program in the complex C language using the Arduino API in order to make hardware do magic **Arduino for Beginners:**

**Step-By-Step Guide to Arduino (Arduino Hardware & Software)** Simon Knight,2018-08-30 ARDUINO FOR BEGINNERS Arduino boards are helpful when it comes to constructing digital devices as well as other types of interactive objects Do you want to build a light display Are you ready to control a touchscreen Learn how to program a robot The microcontroller board can help you achieve all these as well as any other thing that you would wish To make things even sound better the Arduino board is the most affordable device and with the help of this book you will smile while you put together the code to power whichever type of device that you want In this book you will be introduced to everything about Arduino You will interact with several concepts that are the foundation of mastering Arduino Your transformation from an Arduino beginner to an experienced Arduino developer will put you ina position to build different complex electronic projects Not only that your electronic skills and confidence will also help you train students This book will further help you develop a clear understanding of the latest Arduino boards such as the Uno *ESP8266 Programming Tutorial* Barton Toolan,2021-04-29

ESP8266 started their journey out as a WiFi add on board for more traditional Arduino boards but shortly after the community realized the power of them and added support to be able to program directly with the Arduino IDE This book will give you Simple Ways Of Programming An ESP8266 How To Program ESP8266 With Arduino ESP8266 Programming Tutorial Programming With Arduino ESP8266 Programming Language Nodemcu Programming ESP8266 For Beginners

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### **Arduino C Cours 01 1 Didel News Fr Arduino Grove Introduction**

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