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Cours Arduino/C 1ère partie

Ce document fait suite au document www.didel.com/aduno/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. Camvel: 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 vous amêne rapidement à ce qui vous intéresse.

Cette 1ère partie ne va pas plus loin que le if, 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.dest.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 Cl

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. | // Clignote.ino #define Led 13 void setup () |
|---|--|
| la pin13 appelée Led est une sortie | pinHode(Led, OUTPUT); |
| on répête sans fin allumer la Led attendre une demi-seconde eteindre la Led attendre une demi-seconde recommencer (fin partie répétée) | <pre>void loop () digitalWrite(Led, HIGH); delay(500); // 500 millisecondes digitalWrite(Led, LOW); delay(500); </pre> |

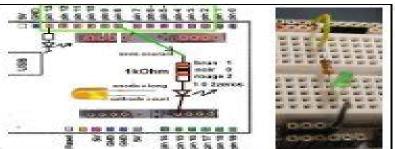
Il faut accepter sans bien comprendre pour le moment les mots codes, la présence de () ; { } et respecter ces notations scrupuleusement , de même que les minuscules et majuscules. Le compilateur, qui fait la traduction est intolérant, et ses messages ne sont pas toujours faciles à comprendre.

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 8, 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

M.Eng. Johannes Wild

Arduino C Cours 01 1 Didel News Fr Arduino Grove:

Arduino Ulli Sommer,2012-03-20 Arduino ist ein Mikrocontroller System das aus einem Mikrocontroller der Firma Atmel und einer Open Source Entwicklungsumgebung die auf einem vereinfachten C Dialekt basiert besteht Der Mikrocontroller wird ber den PC programmiert und kann eigenst ndig oder in Verbindung mit dem PC agieren Es k nnen f r die Interaktion zwischen Mensch und Mikrocontroller diverse Sensoren angeschlossen werden die unsere Umwelt erfassen und die Daten an den Mikrocontroller weitergeben Der Mikrocontroller verarbeitet mit seinem Programm die Daten und es k nnen Ausgaben get tigt oder z B Aktuatoren gesteuert werden Der Kreativit t des Entwicklers sind dabei keine Grenzen gesetzt

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Unveiling the Magic of Words: A Review of "Arduino C Cours 01 1 Didel News Fr Arduino Grove"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really aweinspiring. Enter the realm of "Arduino C Cours 01 1 Didel News Fr Arduino Grove," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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Table of Contents Arduino C Cours 01 1 Didel News Fr Arduino Grove

- 1. Understanding the eBook Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - The Rise of Digital Reading Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - Personalized Recommendations
 - Arduino C Cours 01 1 Didel News Fr Arduino Grove User Reviews and Ratings
 - Arduino C Cours 01 1 Didel News Fr Arduino Grove and Bestseller Lists

- 5. Accessing Arduino C Cours 01 1 Didel News Fr Arduino Grove Free and Paid eBooks
 - Arduino C Cours 01 1 Didel News Fr Arduino Grove Public Domain eBooks
 - Arduino C Cours 01 1 Didel News Fr Arduino Grove eBook Subscription Services
 - Arduino C Cours 01 1 Didel News Fr Arduino Grove Budget-Friendly Options
- 6. Navigating Arduino C Cours 01 1 Didel News Fr Arduino Grove eBook Formats
 - o ePub, PDF, MOBI, and More
 - Arduino C Cours 01 1 Didel News Fr Arduino Grove Compatibility with Devices
 - Arduino C Cours 01 1 Didel News Fr Arduino Grove Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - Highlighting and Note-Taking Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - o Interactive Elements Arduino C Cours 01 1 Didel News Fr Arduino Grove
- 8. Staying Engaged with Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - o Following Authors and Publishers Arduino C Cours 01 1 Didel News Fr Arduino Grove
- 9. Balancing eBooks and Physical Books Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Arduino C Cours 01 1 Didel News Fr Arduino Grove
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - o Setting Reading Goals Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - Fact-Checking eBook Content of Arduino C Cours 01 1 Didel News Fr Arduino Grove
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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