



## 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);
}
```

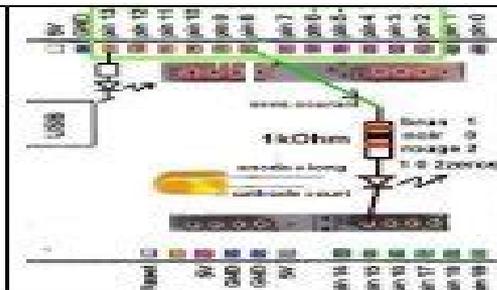
Il faut accepter sans bien comprendre pour le moment les mots codes, la présence de ( ) ; { } et respecter ces notations scrupuleusement , de même que les minuscules et majuscules. Le compilateur, qui fait la traduction est intolérant, et ses messages ne sont pas toujours faciles à comprendre.

### 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

**Brendan G. Carr**



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

## Adopting the Track of Expression: An Mental Symphony within **Arduino C Cours 01 1 Didel News Fr Arduino Grove**

In some sort of eaten by displays and the ceaseless chatter of instantaneous transmission, the melodic splendor and psychological symphony developed by the written term often diminish in to the background, eclipsed by the relentless noise and distractions that permeate our lives. However, located within the pages of **Arduino C Cours 01 1 Didel News Fr Arduino Grove** a stunning fictional value overflowing with natural emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that charming masterpiece conducts readers on a psychological trip, skillfully unraveling the hidden tunes and profound affect resonating within each cautiously crafted phrase. Within the depths of the touching assessment, we can investigate the book is main harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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