DT2

*Figure 1*

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| **Schéma électronique** | | |
| **Carte électronique**    *Figure 2* | | **Cône d’émission de la LED** |
| *STI****2D****PROJETDEnumérique* |  | |

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| //De  int LED1=0;  int LED2=1;  int LED3=2;  int LED4=3;  int delais=500;  int bouton=4;  void setup()  {  pinMode(LED1, OUTPUT);  pinMode(LED2, OUTPUT);  pinMode(LED3, OUTPUT);  pinMode(LED4, OUTPUT);  digitalWrite(LED1,HIGH);  digitalWrite(LED2,HIGH);  digitalWrite(LED3,HIGH);  digitalWrite(LED4,HIGH);  do{  delay(10);  } while(analogRead(2) < 300);  randomSeed(millis());  }  void loop()  {  delais=delais/1.7;  //affiche un 1  digitalWrite(LED1,LOW);  digitalWrite(LED2,LOW);  digitalWrite(LED3,LOW);  digitalWrite(LED4,HIGH);  delay(delais); | // affiche un 2  digitalWrite(LED1,LOW);  digitalWrite(LED2,HIGH);  digitalWrite(LED3,LOW);  digitalWrite(LED4,LOW);  delay(delais);  // affiche un 3  digitalWrite(LED1,LOW);  digitalWrite(LED2,HIGH);  digitalWrite(LED3,LOW);  digitalWrite(LED4,HIGH);  delay(delais);  // affiche un 4  digitalWrite(LED1,HIGH);  digitalWrite(LED2,HIGH);  digitalWrite(LED3,LOW);  digitalWrite(LED4,LOW);  delay(delais);  // affiche un 5  digitalWrite(LED1,HIGH);  digitalWrite(LED2,HIGH);  digitalWrite(LED3,LOW);  digitalWrite(LED4,HIGH);  delay(delais);  // affiche un 6  digitalWrite(LED1,HIGH);  digitalWrite(LED2,HIGH);  digitalWrite(LED3,HIGH);  digitalWrite(LED4,LOW);  delay(delais); | if(delais<10){  switch(random(1,6)){  case 1:  digitalWrite(LED1,LOW);  digitalWrite(LED2,LOW);  digitalWrite(LED3,LOW);  digitalWrite(LED4,HIGH);  break;  case 2:  digitalWrite(LED1,LOW);  digitalWrite(LED2,HIGH);  digitalWrite(LED3,LOW);  digitalWrite(LED4,LOW);  break;  case 3:  digitalWrite(LED1,LOW);  digitalWrite(LED2,HIGH);  digitalWrite(LED3,LOW);  digitalWrite(LED4,HIGH);  break;  case 4:  digitalWrite(LED1,HIGH);  digitalWrite(LED2,HIGH);  digitalWrite(LED3,LOW);  digitalWrite(LED4,LOW);  break; | case 5:  digitalWrite(LED1,HIGH);  digitalWrite(LED2,HIGH);  digitalWrite(LED3,LOW);  digitalWrite(LED4,HIGH);  break;  case 6:  digitalWrite(LED1,HIGH);  digitalWrite(LED2,HIGH);  digitalWrite(LED3,HIGH);  digitalWrite(LED4,LOW);  break;  }  do{  delay(10);  } while(analogRead(2) < 300);  delais=500;  }  } |