

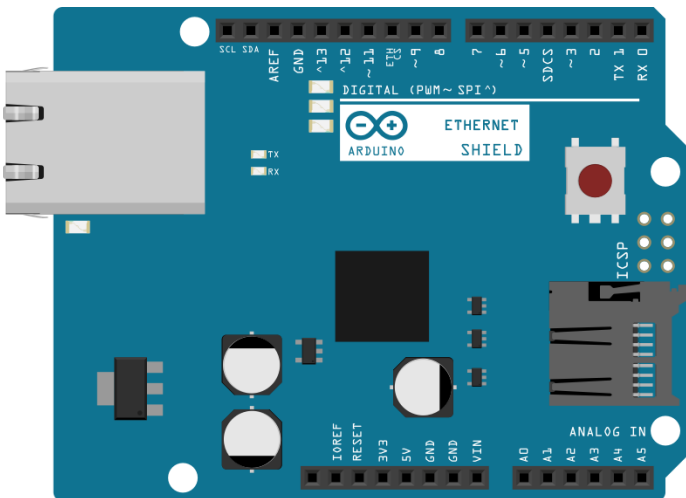
Using the SD library to create and remove files on a SD card

This example shows how to create and destroy a file on a SD card. Please click [here](https://www.arduino.cc/en/Reference/SD) (<https://www.arduino.cc/en/Reference/SD>) for more information on the SD library.

Hardware Required

- Arduino or Genuino board
- Ethernet Shield (or other board with an SD slot)
- Formatted SD card

Circuit

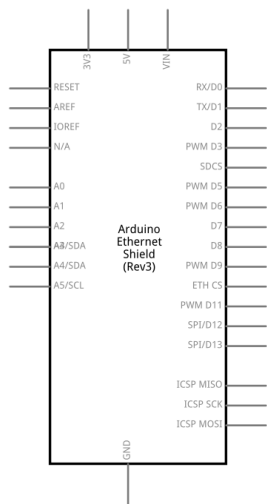


https://www.arduino.cc/en/uploads/Tutorial/EthernetShield_Fritz.png

image developed using Fritzing (<http://www.fritzing.org>). For more circuit examples, see the Fritzing project page (<http://fritzing.org/projects/>)

The Arduino or Genuino board has to be connected to the Ethernet Shield and also has a USB cable connected to the computer.

Schematics



SIGN IN () HOME (//WWW.ARDUINO.CC)

(//www.arduino.cc/en/uploads/Tutorial/Ethernet_Shield_Sch.png)

image developed using Fritzing (<http://www.fritzing.org>). For more circuit examples, see the Fritzing project page (<http://fritzing.org/projects/>)

Code

The code below is configured for use with an Ethernet shield, which has an onboard SD slot. In the `setup()` , `SD.begin()` names pin 4 as the CS pin. This pin varies depending on the make of shield or board you are using.

In the `setup()` , open a new file with `SD.open()` named "example.txt". `FILE_WRITE` enables read and write access to the file, starting at the end. In this example though, immediately close the file by calling `myFile.close()` .

After checking to make sure the file exists with `SD.exists()` , delete the file from the card with `SD.remove` .

```
/*
  SD card basic file example

  This example shows how to create and destroy an SD card file
  The circuit:
  * SD card attached to SPI bus as follows:
  ** MOSI - pin 11
  ** MISO - pin 12
  ** CLK - pin 13
  ** CS - pin 4 (for MKRZero SD: SDCARD_SS_PIN)

  created Nov 2010
  by David A. Mellis
  modified 9 Apr 2012
  by Tom Igoe

  This example code is in the public domain.

  */
```

```
#include <SPI.h>
#include <SD.h>
```

```
File myFile;
```

```
void setup() {          SIGN IN ()  HOME (//WWW.ARDUINO.CC)
  // Open serial communications and wait for port to open:
  Serial.begin(9600);
  while (!Serial) {
    ; // wait for serial port to connect. Needed for native USB port only
  }

  Serial.print("Initializing SD card...");

  if (!SD.begin(4)) {
    Serial.println("initialization failed!");
    while (1);
  }
  Serial.println("initialization done.");

  if (SD.exists("example.txt")) {
    Serial.println("example.txt exists.");
  } else {
    Serial.println("example.txt doesn't exist.");
  }

  // open a new file and immediately close it:
  Serial.println("Creating example.txt...");
  myFile = SD.open("example.txt", FILE_WRITE);
  myFile.close();

  // Check to see if the file exists:
  if (SD.exists("example.txt")) {
    Serial.println("example.txt exists.");
  } else {
    Serial.println("example.txt doesn't exist.");
  }

  // delete the file:
  Serial.println("Removing example.txt...");
  SD.remove("example.txt");

  if (SD.exists("example.txt")) {
    Serial.println("example.txt exists.");
  } else {
    Serial.println("example.txt doesn't exist.");
  }
}

void loop() {
  // nothing happens after setup finishes.
}
```

[Get Code] ([//www.arduino.cc/en/Tutorial/Files?action=sourceblock&num=1](http://www.arduino.cc/en/Tutorial/Files?action=sourceblock&num=1))

See Also

- SD library ([//www.arduino.cc/en/Reference/SD](http://www.arduino.cc/en/Reference/SD)) - Your reference for the SD Card library.
- Notes on using SD cards ([//www.arduino.cc/en/Reference/SDcardNotes](http://www.arduino.cc/en/Reference/SDcardNotes)) - What you need to know when you use SD cards
- CardInfo ([//www.arduino.cc/en/Tutorial/CardInfo](http://www.arduino.cc/en/Tutorial/CardInfo)) - Get info about your SD card.
- Datalogger ([//www.arduino.cc/en/Tutorial/Datalogger](http://www.arduino.cc/en/Tutorial/Datalogger)) - How to log data from three analog sensors to an SD card.
- DumpFile ([//www.arduino.cc/en/Tutorial/DumpFile](http://www.arduino.cc/en/Tutorial/DumpFile)) - How to read a file from the SD card.
- Listfiles ([//www.arduino.cc/en/Tutorial/Listfiles](http://www.arduino.cc/en/Tutorial/Listfiles)) - How print out the files in a directory on a SD card.
- ReadWrite ([//www.arduino.cc/en/Tutorial/ReadWrite](http://www.arduino.cc/en/Tutorial/ReadWrite)) - How to read and write data to and from an SD card.

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