

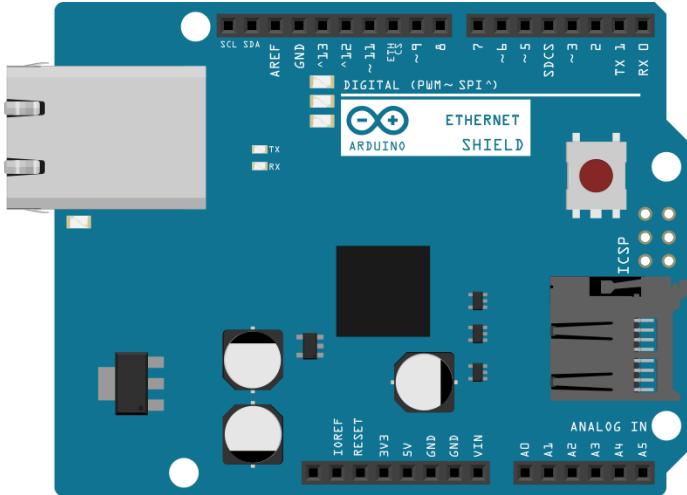
# Using the SD library to create and remove files on a SD card

This example shows how to create and destroy a file on a SD card. Please click here ([//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



(//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



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)

## See Also

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

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