

## String substring Function

## Hardware Required

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# String substring Function

Look for "phrases" within a given string.

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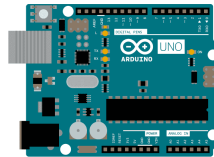
The **String** function `substring()` is closely related to `charAt()`, `startsWith()` and `endsWith()`. It allows you to look for an instance of a particular substring within a given String.

## Hardware Required

- ◆ Arduino Board

## Circuit

There is no circuit for this example, though your board must be connected to your computer via USB and the serial monitor window of the Arduino Software (IDE) should be open.



## Code

`substring()` with only one parameter looks for a given substring from the position given to the end of the string. It expects that the substring extends all the way to the end of the String. For example:

```
1 String stringOne = "Content-Type: text/html";
2 // substring(index) Looks for the substring from the index position to the end
3 if (stringOne.substring(19) == "html") {
4 }
```

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is true, while

```
1 String stringOne = "Content-Type: text/html";
2 // substring(index) Looks for the substring from the index position to the end
3 if (stringOne.substring(19) == "htm") {
4 }
```

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is not true, because there's an `l` after the `htm` in the String.

`substring()` with two parameters looks for a given substring from the first parameter to the second. For example:

```
1 String stringOne = "Content-Type: text/html";
2 // you can also look for a substring in the middle of a string:
3 if (stringOne.substring(14,18) == "text") {
4 }
```

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This looks for the word `text` from positions 14 through 18 of the String.

### Missing something?

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```
1 1 /*
2 String substring()
3
4 Examples of how to use substring in a String
5
6 created 27 Jul 2010,
7 modified 2 Apr 2012
8 by Zach EVELAND
9
10 This example code is in the public domain.
11
12 https://www.arduino.cc/en/Tutorial/BuiltInExamples/StringSubstring
13 */
14
15 void setup() {
16   // Open serial communications and wait for port to open:
17   Serial.begin(9600);
18   while (!Serial) {
19     ; // wait for serial port to connect. Needed for native USB port only
20   }
21
22   // send an intro:
23   Serial.println("\n\nString  substring():");
24   Serial.println();
25 }
26
27 void loop() {
28   // Set up a String:
29   String stringOne = "Content-Type: text/html";
30   Serial.println(stringOne);
31
32   // substring(index) looks for the substring from the index position to the end:
```

### Learn more

You can find more basic tutorials in the [built-in examples](#) section.

You can also explore the [language reference](#), a detailed collection of the Arduino programming language.

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