

# C LIBRARY FUNCTION - FGETS

[http://www.tutorialspoint.com/c\\_standard\\_library/c\\_function\\_fgets.htm](http://www.tutorialspoint.com/c_standard_library/c_function_fgets.htm)

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## Description

The C library function **char \*fgets(char \*str, int n, FILE \*stream)** reads a line from the specified stream and stores it into the string pointed to by **str**. It stops when either **n - 1** characters are read, the newline character is read, or the end-of-file is reached, whichever comes first.

## Declaration

Following is the declaration for fgets function.

```
char *fgets(char *str, int n, FILE *stream)
```

## Parameters

- **str** -- This is the pointer to an array of chars where the string read is stored.
- **n** -- This is the maximum number of characters to be read *including the final null - character*. Usually, the length of the array passed as str is used.
- **stream** -- This is the pointer to a FILE object that identifies the stream where characters are read from.

## Return Value

On success, the function returns the same str parameter. If the End-of-File is encountered and no characters have been read, the contents of str remain unchanged and a null pointer is returned.

If an error occurs, a null pointer is returned.

## Example

The following example shows the usage of fgets function.

```
#include <stdio.h>

int main()
{
    FILE *fp;
    char str[60];

    /* opening file for reading */
    fp = fopen("file.txt" , "r");
    if(fp == NULL)
    {
        perror("Error opening file");
        return(-1);
    }
    if( fgets (str, 60, fp)!=NULL )
    {
        /* writing content to stdout */
        puts(str);
    }
    fclose(fp);

    return(0);
}
```

Let us assume, we have a text file **file.txt**, which has the following content. This file will be used as an input for our example program:

We are in 2012

Now, let us compile and run the above program that will produce the following result:

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