

Path.GetFileName Method

Reference

Definition

Namespace: [System.IO](#)

Assembly: System.Runtime.dll

Overloads

 Expand table

GetFileName(ReadOnlySpan<Char>)	Returns the file name and extension of a file path that is represented by a read-only character span.
GetFileName(String)	Returns the file name and extension of the specified path string.

GetFileName(ReadOnlySpan<Char>)

Source: [Path.cs](#)

Returns the file name and extension of a file path that is represented by a read-only character span.

C#

```
public static ReadOnlySpan<char> GetFileName (ReadOnlySpan<char> path);
```

Parameters

path [ReadOnlySpan<Char>](#)

A read-only span that contains the path from which to obtain the file name and extension.

Returns

[ReadOnlySpan<Char>](#)

The characters after the last directory separator character in `path`.

Remarks

The returned read-only span contains the characters of the path that follow the last separator in `path`. If the last character in `path` is a volume or directory separator character, the method returns `ReadOnlySpan<T>.Empty`. If `path` contains no separator character, the method returns `path`.

See also

- [File path formats on Windows systems](#)

Applies to

▼ .NET 9 and other versions

Product	Versions
.NET	Core 2.1, Core 2.2, Core 3.0, Core 3.1, 5, 6, 7, 8, 9
.NET Standard	2.1

GetFileName(String)

Source: [Path.cs](#)

Returns the file name and extension of the specified path string.

C#

```
public static string? GetFileName (string? path);
```

Parameters

path `String`

The path string from which to obtain the file name and extension.

Returns

`String`

The characters after the last directory separator character in `path`. If the last character of `path` is a directory or volume separator character, this method returns `Empty`. If `path` is `null`, this method returns `null`.

Exceptions

[ArgumentException](#)

.NET Framework and .NET Core versions older than 2.1: `path` contains one or more of the invalid characters defined in [GetInvalidPathChars\(\)](#).

Examples

The following example demonstrates the behavior of the `GetFileName` method on a Windows-based desktop platform.

C#

```
string fileName = @"C:\mydir\myfile.ext";
string path = @"C:\mydir\";
string result;

result = Path.GetFileName(fileName);
Console.WriteLine("GetFileName('{0}') returns '{1}'",
    fileName, result);

result = Path.GetFileName(path);
Console.WriteLine("GetFileName('{0}') returns '{1}'",
    path, result);

// This code produces output similar to the following:
//
// GetFileName('C:\mydir\myfile.ext') returns 'myfile.ext'
// GetFileName('C:\mydir\') returns ''
```

Remarks

The returned value is `null` if the file path is `null`.

The separator characters used to determine the start of the file name are [DirectorySeparatorChar](#) and [AltDirectorySeparatorChar](#).

Because `\` is a legal file name on Unix, `GetFileName` running under Unix-based platforms cannot correctly return the file name from a Windows-based path like `C:\mydir\myfile.ext`, but `GetFileName` running under Windows-based platforms can correctly return the file name from a Unix-based path like `/tmp/myfile.ext`, so the

behavior of the `GetFileName` method is not strictly the same on Unix-based and Windows-based platforms.

For a list of common I/O tasks, see [Common I/O Tasks](#).

See also

- [File path formats on Windows systems](#)
- [File and Stream I/O](#)
- [How to: Read Text from a File](#)
- [How to: Write Text to a File](#)

Applies to

▼ .NET 9 and other versions

Product	Versions
.NET	Core 1.0, Core 1.1, Core 2.0, Core 2.1, Core 2.2, Core 3.0, Core 3.1, 5, 6, 7, 8, 9
.NET Framework	1.1, 2.0, 3.0, 3.5, 4.0, 4.5, 4.5.1, 4.5.2, 4.6, 4.6.1, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8, 4.8.1
.NET Standard	1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 2.0, 2.1
UWP	10.0

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