

UploadStringAsync

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··· / System.Net / WebClient / Methods /

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WebClient.DownloadFile Method

Reference Feedback

In this article

Definition

Overloads

DownloadFile(Uri, String)

DownloadFile(String, String)

Definition

Namespace: System.Net

Assembly: System.Net.WebClient.dll

Downloads the resource with the specified URI to a local file.

Overloads

Expand table

DownloadFile(Uri, String) Downloads the resource with the specified URI to a local file. DownloadFile(String, String) Downloads the resource with the specified URI to a local file.

DownloadFile(Uri, String)

Source: WebClient.cs ☑

Downloads the resource with the specified URI to a local file.

Copy C# public void DownloadFile (Uri address, string fileName);

Parameters

address Uri

The URI specified as a String, from which to download data.

fileName String

The name of the local file that is to receive the data.

Exceptions

ArgumentNullException

The address parameter is null.

-or-

The fileName parameter is null.

WebException

The URI formed by combining BaseAddress and address is invalid.

-or-

filename is null or Empty.

-or-

The file does not exist.

-or-

An error occurred while downloading data.

NotSupportedException

The method has been called simultaneously on multiple threads.

Remarks

⊗ Caution

WebRequest, HttpWebRequest, ServicePoint, and WebClient are obsolete, and you shouldn't use them for new development. Use HttpClient instead.

The DownloadFile method downloads to a local file data from the URI specified by in the address parameter. This method blocks while downloading the resource. To download a resource and continue executing while waiting for the server's response, use one of the DownloadFileAsync methods.

If the BaseAddress property is not an empty string ("") and address does not contain an absolute URI, address must be a relative URI that is combined with BaseAddress to form the absolute URI of the requested data. If the QueryString property is not an empty string, it is appended to address.

This method uses the RETR command to download an FTP resource. For an HTTP resource, the GET method is used.

① Note

This member outputs trace information when you enable network tracing in your application. For more information, see <u>Network Tracing in .NET Framework</u>.

When using this method in a middle tier application, such as an ASP.NET page, you will receive an error if the account under which the application executes does not have permission to access the file.

Applies to

▼ .NET 9 and other versions

Product	Versions
.NET	Core 2.0, Core 2.1, Core 2.2, Core 3.0, Core 3.1, 5, 6, 7, 8, 9
.NET Framework	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	2.0, 2.1

DownloadFile(String, String)

Source: WebClient.cs ☑

Downloads the resource with the specified URI to a local file.

```
C#

public void DownloadFile (string address, string fileName);
```

Parameters

address String

The URI from which to download data.

fileName String

The name of the local file that is to receive the data.

Exceptions

ArgumentNullException

The address parameter is null.

WebException

The URI formed by combining BaseAddress and address is invalid.

-or-

filename is null or Empty.

-or-

The file does not exist.

-or- An error occurred while downloading data.

NotSupportedException

The method has been called simultaneously on multiple threads.

Examples

The following code example downloads a file from http://www.contoso.com ☑ to the local hard drive.

```
c#

string remoteUri = "http://www.contoso.com/library/homepage/images/";
string fileName = "ms-banner.gif", myStringWebResource = null;
// Create a new WebClient instance.
WebClient myWebClient = new WebClient();
// Concatenate the domain with the Web resource filename.
myStringWebResource = remoteUri + fileName;
Console.WriteLine("Downloading File \"{0}\" from \"{1}\" .....\n\n", fileNa
// Download the Web resource and save it into the current filesystem folder.
myWebClient.DownloadFile(myStringWebResource,fileName);
Console.WriteLine("Successfully Downloaded File \"{0}\" from \"{1}\"", fileNa
Console.WriteLine("\nDownloaded file saved in the following file system folded)
```

Remarks

⊗ Caution

WebRequest, HttpWebRequest, ServicePoint, and WebClient are obsolete, and you shouldn't use them for new development. Use **HttpClient** instead.

The DownloadFile method downloads to a local file data from the URI specified by in the address parameter. This method blocks while downloading the resource. To download a resource and continue executing while waiting for the server's response, use one of the DownloadFileAsync methods.

If the BaseAddress property is not an empty string ("") and address does not contain an absolute URI, address must be a relative URI that is combined with BaseAddress to form the absolute URI of the requested data. If the QueryString property is not an empty string, it is appended to address.

This method uses the RETR command to download an FTP resource. For an HTTP resource, the GET method is used.

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Product	Versions
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.NET Standard	2.0, 2.1

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