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Language ⌄   ⊕   ✎   ⋮

WebClient.DownloadFile Method

Reference   👍 Feedback

In this article

Definition

Namespace: System.Net

Assembly: System.Net.WebClient.dll

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

Overloads

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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.

```
public:
 void DownloadFile(Uri ^ address, System::String ^
fileName);
```

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

```
member this.DownloadFile : Uri * string -> unit
```

```
Public Sub DownloadFile (address As Uri, fileName As
String)
```

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.

> ⓘ **Note**
>
> This member outputs trace information when you enable network tracing in your application. For more information, see **Network Tracing in .NET Framework**.

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

▼

DownloadFile(String, String)

Source: [WebClient.cs](#)⧉

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

```cpp
public:
 void DownloadFile(System::String ^ address,
System::String ^ fileName);
```

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

```fsharp
member this.DownloadFile : string * string -> unit
```

```vb
Public Sub DownloadFile (address As String, fileName
As String)
```

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.

```
String^ remoteUri = "http://www.contoso.com/library/homep
String^ fileName = "ms-banner.gif", ^myStringWebResource
// Create a new WebClient instance.
WebClient^ myWebClient = gcnew WebClient;
// Concatenate the domain with the Web resource filename.
myStringWebResource = String::Concat( remoteUri, fileName
Console::WriteLine( "Downloading File \"{0}\" from \"{1}\
// Download the Web resource and save it into the current
myWebClient->DownloadFile( myStringWebResource, fileName
```

```
Console::WriteLine( "Successfully Downloaded File \"{0}\"
Console::WriteLine( "\nDownloaded file saved in the follc
```

```csharp
string remoteUri = "http://www.contoso.com/library/homepa
string fileName = "ms-banner.gif", myStringWebResource =
// 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}\"
// Download the Web resource and save it into the current
myWebClient.DownloadFile(myStringWebResource,fileName);
Console.WriteLine("Successfully Downloaded File \"{0}\" 1
Console.WriteLine("\nDownloaded file saved in the followi
```

```vb
Dim remoteUri As String = "http://www.contoso.com/library
Dim fileName As String = "ms-banner.gif"
Dim myStringWebResource As String = Nothing
' Create a new WebClient instance.
Dim myWebClient As New WebClient()
' Concatenate the domain with the Web resource filename.
'requires a fully qualified resource name, concatenate th
myStringWebResource = remoteUri + fileName
Console.WriteLine("Downloading File ""{0}"" from ""{1}""
' The DownloadFile() method downloads the Web resource ar
myWebClient.DownloadFile(myStringWebResource, fileName)
Console.WriteLine("Successfully Downloaded file ""{0}"" 1
Console.WriteLine((ControlChars.Cr + "Downloaded file sav
```

Remarks

> ⊗ **Caution**
>
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> are obsolete, and you shouldn't use them for new
> development. Use **HttpClient** instead.

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

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Applies to

▼

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