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Language

# WebClient.DownloadFile Method

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# 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)

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.

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

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

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

```
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 followi
```

```
string remoteUri = "http://www.contoso.com/library/homepage.aspx";
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}\"", fileName, myStringWebResource);
// Download the Web resource and save it into the current directory.
myWebClient.DownloadFile(myStringWebResource, fileName);
Console.WriteLine("Successfully Downloaded File \"{0}\" from \"{1}\"", fileName, myStringWebResource);
Console.WriteLine("\nDownloaded file saved in the following location: {0}", myStringWebResource);
```

```
Dim remoteUri As String = "http://www.contoso.com/library/homepage.aspx";
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 the domain with the resource filename.
myStringWebResource = remoteUri + fileName
Console.WriteLine("Downloading File \"{0}\" from \"{1}\"", fileName, myStringWebResource);
' The DownloadFile() method downloads the Web resource and saves it into the current directory.
myWebClient.DownloadFile(myStringWebResource, fileName);
Console.WriteLine("Successfully Downloaded file \"{0}\" from \"{1}\"", fileName, myStringWebResource);
Console.WriteLine((ControlChars.Cr + "Downloaded file saved in the following location: {0}"), myStringWebResource);
```

## 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



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
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