# What is a postback?

Asked 16 years, 2 months ago Modified 8 months ago Viewed 155k times



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I'm making my way into web development and have seen the word *postback* thrown around. Coming from a nonweb based background, what does a new web developer have to know about postbacks? (i.e. what are they and when do they arise?)



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Any more information you'd like to share to help a newbie in the web world be aware of postbacks would be most greatly appreciated.

postback

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edited Jul 20, 2012 at 7:57

S DJJ

**⊗** 33.1k • 20 • 94 • 103

asked Oct 8, 2008 at 15:01



Scott Saad

**18.3k** • 11 • 66 • 85





The following is aimed at beginners to ASP.Net...

## 201 When does it happen?









A postback originates from the client browser. Usually one of the controls on the page will be manipulated by the user (a button clicked or dropdown changed, etc), and this control will initiate a postback. The state of this control, plus all other controls on the page,(known as the View State) is **Posted Back** to the web server.

## What happens?

Most commonly the postback causes the web server to create an instance of the code behind class of the page that initiated the postback. This page object is then executed within the normal page lifecycle with a slight difference (see below). If you do not redirect the user specifically to another page somewhere during the page lifecycle, the final result of the postback will be the same page displayed to the user again, and then another postback could happen, and so on.

## Why does it happen?

The web application is running on the web server. In order to process the user's response, cause the application state to change, or move to a different page,

you need to get some code to execute on the web server. The only way to achieve this is to collect up all the information that the user is currently working on and send it all back to the server.

#### Some things for a beginner to note are...

- The state of the controls on the posting back page are available within the context. This will allow you to manipulate the page controls or redirect to another page based on the information there.
- Controls on a web form have events, and therefore event handlers, just like any other controls. The initialisation part of the page lifecycle will execute before the event handler of the control that caused the post back. Therefore the code in the page's Init and Load event handler will execute before the code in the event handler for the button that the user clicked.
- The value of the "Page.IsPostBack" property will be set to "true" when the page is executing after a postback, and "false" otherwise.
- Technologies like Ajax and MVC have changed the way postbacks work.

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edited Nov 24, 2009 at 16:35



3 Small correction - "The state of this control, plus all other controls on the page,(known as the View State) is Posted Back." This data is actually the Postback data. Viewstate data is also posted back but that is the state of the controls the last time they were on the server. – Simon Keep Oct 20, 2008 at 16:15

Note postback is used on all .NET platforms, not just ASP.NET – JNF Jul 20, 2012 at 7:59

- "In order to process the user's response, cause the application state to change, or move to a different page, you need to get some code to execute on the web server." This is a little misleading. You don't always *need* 'code to execute on the web server' to do these things. When possible, it can be better to process user input on the client. One of the most important things to know about post-backs is how/when *not* to do them; i.e., when to take care of things client-side, or via Ajax, etc. Hawkeye Parker Nov 7, 2013 at 18:37
- Agree @HawkeyeParker. I wrote this back when all I knew was Web Forms architecture. Things have certainly come a long way since then! All of my explanation definitely doesn't take Ajax and into account at all. Andy McCluggage Nov 13, 2013 at 16:08



#### From wikipedia:

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A Postback is an action taken by an interactive webpage, when the entire page and its contents are sent to the server for processing some



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information and then, the server posts the same page back to the browser.

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answered Oct 8, 2008 at 15:02

Galwegian

**42.2k** • 16 • 113 • 158

@Galwegian: Don't you think then it will only happen when some validation errors occur so as to present the same page as the outcome. – Farhan stands with Palestine Dec 19, 2014 at 18:32

how does the server "posts" the same page back to the browser ? – gaurav5430 Jan 27, 2021 at 4:26



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Expanding on the definitions given, the most important thing you need to know as a web-developer is that NO STATE IS SAVED between postbacks. There are ways to retain state, such as the Session or Viewstate collections in ASP.NET, but as a rule of thumb write your programs where you can recreate your state on every postback.

This is probably the biggest difference between desktop and web-based application programming, and took me months to learn to the point where I was instinctively writing this way.

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answered Oct 8, 2008 at 15:05



RB.

**37.1k** • 13 • 100 • 134

- well put. nothing is saved except in the session and viewstate
   Miles Oct 8, 2008 at 15:13
- Great point! Yes, this definitely seems like something that takes a bit to wrap one's brain around, when coming from the client programming domain. Scott Saad Oct 8, 2008 at 16:05



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Postback happens when a webpage posts its data back to the same script/dll/whatever that generated the page in the first place.



Example in C# (asp.net)



• • •



```
if (!IsPostback)
  // generate form
else
  process submitted data;
```

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answered Oct 8, 2008 at 16:36



**Chris Cudmore 30.1k** • 12 • 59 • 95



13

Web developement generally involves html pages that hold forms (<form> tags). Forms post to URLs. You can set a given form to post to any url you want to. A **postback** is when a form posts back to it's own page/url.







The term has special significance for ASP. Net WebForms developers, because it is the primary mechanism driving a lot of the behavior for a page — specifically 'event handling'. ASP.Net WebForms pages have exactly one server form which nearly always posts back to itself, and these postbacks trigger execution on the server of something called the Page Lifecycle.

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edited Jun 21, 2021 at 20:01

answered Oct 8, 2008 at 15:11



Joel Coehoorn

**415k** • 114 • 577 • 813



The term is also used in web application development when interacting with 3rd party web-service APIs











Many APIs require both an interactive and non-interactive integration. Typically the interactive part is done using redirects (site 1 redirects a user to site 2, where they sign in, and are redirected back). The non-interactive part is done using a 'postback', or an HTTP POST from site 2's servers to site 1's servers.

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answered Mar 18, 2010 at 20:46

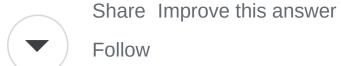


where can I get more info about this? – gaurav5430 Jan 27, 2021 at 4:27



When a script generates an html form and that form's action http POSTs back to the same form.





answered Oct 8, 2008 at 15:03









5



Postback refers to HTML forms. An HTML form has 2 methods: GET and POST. These methods determine how data is sent from the client via the form, to the server. A Postback is the action of POSTing back to the submitting page. In essence, it forms a complete circuit from the client, to the server, and back again.





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answered Oct 8, 2008 at 15:04



**6,255** • 4 • 33 • 43



Postback is essentially when a form is submitted to the same page or script (.php .asp etc) as you are currently on to proccesses the data rather than sending you to a new page.





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An example could be a page on a forum (viewpage.php), where you submit a comment and it is submitted to the same page (viewpage.php) and you would then see it with the new content added.

See: <a href="http://en.wikipedia.org/wiki/Postback">http://en.wikipedia.org/wiki/Postback</a>

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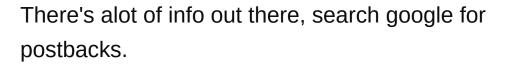
answered Oct 8, 2008 at 15:08





A post back is anything that cause the page from the client's web browser to be pushed back to the server.

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Most of the time, any ASP control will cause a post back (button/link click) but some don't unless you tell them to (checkbox/combobox)

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answered Oct 8, 2008 at 15:03



Miles

**5,736** • 19 • 65 • 87



3

Yet the question is answered accurately above, but just want to share my knowledge. Postback is basically a property that we can use while doing some tasks that need us to manage the state of the page, that is either we have fired some event for e.g. a button click or if we have





refreshed our page. When our page loads for the very first time, that is if we have refreshed our page, at that time postback-property is false, and after that it becomes true.

```
if(!ispostback)
{
  // do some task here
}
else
{
  //do another task here
}
```

http://happycodng.blogspot.in/2013/09/concept-of-postback-in.html

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answered Dec 18, 2013 at 11:13
user3114934
141 • 1 • 4