

Disable browser caching with meta HTML tags

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The correct minimum set of headers that works across the most important browsers:

```
Cache-Control: no-cache, no-store, must-revalidate  
Pragma: no-cache  
Expires: 0
```

Where:

- `Cache-Control` is for **HTTP 1.1**
- `Pragma` is for **HTTP 1.0**
- `Expires` is for **proxies**

Web Pages (HTML)

For the Web Pages (HTML) add the following `<meta>` tags to the page(s) you want to keep browsers from caching (the code must be in the `<head>` section of your page, for example right after `<title>` tag):

```
<meta http-equiv="Cache-Control" content="no-cache, no-store, must-reva  
<meta http-equiv="Pragma" content="no-cache" />  
<meta http-equiv="Expires" content="0" />
```

.htaccess (Apache)

```
<IfModule mod_headers.c>  
  Header set Cache-Control "no-cache, no-store, must-revalidate"  
  Header set Pragma "no-cache"  
  Header set Expires 0  
</IfModule>
```

Java Servlet

```
response.setHeader("Cache-Control", "no-cache, no-store, must-revalidate");  
response.setHeader("Pragma", "no-cache");  
response.setDateHeader("Expires", 0);
```

PHP

```
header('Cache-Control: no-cache, no-store, must-revalidate');  
header('Pragma: no-cache');  
header('Expires: 0');
```

ASP

```
Response.AddHeader "Cache-Control", "no-cache, no-store, must-revalidate"  
Response.AddHeader "Pragma", "no-cache"  
Response.AddHeader "Expires", "0"
```

ASP.NET

```
Response.AppendHeader("Cache-Control", "no-cache, no-store, must-revalidate");  
Response.AppendHeader("Pragma", "no-cache");  
Response.AppendHeader("Expires", "0");
```

Ruby on Rails

```
response.headers['Cache-Control'] = 'no-cache, no-store, must-revalidate'  
response.headers['Pragma'] = 'no-cache'  
response.headers['Expires'] = '0'
```

Python on Flask

```
resp.headers["Cache-Control"] = "no-cache, no-store, must-revalidate"  
resp.headers["Pragma"] = "no-cache"  
resp.headers["Expires"] = "0"
```

Google Go

```
responseWriter.Header().Set("Cache-Control", "no-cache, no-store, must-  
responseWriter.Header().Set("Pragma", "no-cache")  
responseWriter.Header().Set("Expires", "0")
```

Resources

- [Hypertext Transfer Protocol - HTTP/1.1](#)
- [Stack Overflow](#)

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