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Chrome desktop notification example [closed]

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How does one use [Chrome desktop notifications](#)? I'd like that use that in my own code.

377



Update: Here's [a blog post](#) explaining webkit notifications with an example.



264

[javascript](#)[desktop](#)[google-chrome](#)[notifications](#)

edited Aug 9 '17 at 7:12

[rogerdpack](#)**36k** 17 138 263

asked Feb 16 '10 at 7:07

[Sridhar Ratnakumar](#)**36k** 53 127 162

closed as off-topic by [Baum mit Augen ♦](#), [ayaio](#), [FelixSFD](#), [EJoshuaS](#), [Machavity](#) May 29 '17 at 19:01

This question appears to be off-topic. The users who voted to close gave this specific reason:

- "Questions asking us to **recommend or find a book, tool, software library, tutorial or other off-site resource** are off-topic for Stack Overflow as they tend to attract opinionated answers and spam. Instead, [describe](#)

the problem and what has been done so far to solve it." – Baum mit Augen, ayaio, FelixSFD, EJoshuaS, Machavity

If this question can be reworded to fit the rules in the [help center](#), please [edit the question](#).


2 I've left an [answer below](#) updated as of Nov 2012, after HTML notifications became deprecated. It has an actual example like the one you were looking for. – [Dan Dascalescu](#) Nov 11 '12 at 4:15

1 Sample and article (2013): - smartjava.org/examples/notifications - smartjava.org/content/chrome-and-firefox-desktop-notifications
Old article (2010): - html5rocks.com/en/tutorials/notifications/quick – [Christophe Roussy](#) Feb 12 '13 at 16:24

1 **Update:** as of 2015 websites can also send real push notifications, which are delivered even when the user is not surfing the website. Check out [this answer](#) – [collimarco](#) Jan 24 '16 at 13:14

Your blog post is broken. I am on Chrome, and it tells me I need to try Chrome. :-)

 – [ShiningLight](#) Apr 21 '17 at 18:59

2 All these voters for marking it as closed must be IE / Safari lovers. It is specific to browser notification and that particularly for chrome. if it so off topic then why there are so many people liking it and marking it as starred in the first place? – [prash](#) Aug 7 '18 at 3:27 

8 Answers



668



In modern browsers, there are two types of notifications:

- [Desktop notifications](#) - simple to trigger, work as long as the page is open, and may disappear automatically after a few seconds



- [Service Worker notifications](#) - a bit more complicated, but they can work in the background (even after the page is closed), are persistent, and support action buttons

The API call takes the same parameters (except for actions - not available on desktop notifications), which are well-documented on [MDN](#) and for service workers, on [Google's Web Fundamentals](#) site.

Below is a working example of **desktop** notifications for Chrome, Firefox, Opera and Safari. Note that for security reasons, starting with Chrome 62, [permission for the Notification API may no longer be requested from a cross-origin iframe](#), so we can't demo this using StackOverflow's code snippets. You'll need to save this example in an HTML file on your site/application, and make sure to use `localhost://` or `HTTPS`.

```
// request permission on page load
document.addEventListener('DOMContentLoaded', function ()
  if (!Notification) {
    alert('Desktop notifications not available in your browser');
    return;
  }

  if (Notification.permission !== 'granted')
    Notification.requestPermission();
});

function notifyMe() {
  if (Notification.permission !== 'granted')
    Notification.requestPermission();
  else {
    var notification = new Notification('Notification title', {
      icon: 'http://cdn.sstatic.net/stackexchange/img/logo',
      body: 'Hey there! You've been notified!',
    });

    notification.onclick = function () {
      window.open('http://stackoverflow.com/a/13328397/126');
    };
  }
}
```

```
}  
  
}  
  
<button onclick="notifyMe()">Notify me!</button>
```

We're using the [W3C Notifications](#) API. Do not confuse this with the [Chrome extensions notifications API](#), which is different. Chrome extension notifications obviously only work in Chrome extensions, and don't require any special permission from the user.

W3C notifications work in many browsers (see support on [caniuse](#)), and require user permission. As a best practice, don't ask for this permission right off the bat. [Explain to the user first why they would want notifications](#) and see other [push notifications patterns](#).

Note that Chrome doesn't honor the notification icon on Linux, due to [this bug](#).

Final words

Notification support has been in continuous flux, with various APIs being deprecated over the last years. If you're curious, check the previous edits of this answer to see what used to work in Chrome, and to learn the story of rich HTML notifications.

Now the latest standard is at <https://notifications.spec.whatwg.org/>.

As to why there are two different calls to the same effect, depending on whether you're in a service worker or not - see [this ticket I filed while I worked at Google](#).

See also [notify.js](#) for a helper library.

edited May 12 at 7:41

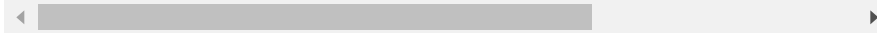
answered Nov 11 '12 at 4:13



Dan Dascalescu

71.8k 22 209 288

-
- 4 @mghaoui - popular != true (necessarily). i've marked this one as the correct answer. – [Sridhar Ratnakumar](#) Feb 17 '13 at 21:07
-
- 2 window.webkitNotifications.checkPermission() will throw an exception in non-Chrome browsers – [J.T. Taylor](#) Jul 11 '13 at 23:24
-
- 2 Close is not a method. I think you want notification.cancel() > decadecity.net/blog/2012/10/12/webkit-notification-api >> Also it appears to close on its own. – [KingOfHypocrites](#) May 9 '14 at 17:46
-
- 3 Thank you for the support, using this with Pusher has helped me building notification system. – [Awijeet](#) Jun 20 '15 at 18:05
-
- 3 not working in *Chrome Version 47.0.2526.80 dev-m* while worked on Mozilla Fire fox on Windows 8 – [Sarz](#) Dec 13 '15 at 20:13
-



84



Check the [design](#) and [API specification](#) (it's still a draft) or check the source from (page no longer available) for a simple example: It's mainly a call to `window.webkitNotifications.createNotification` .

+150

If you want a more robust example (you're trying to create your own Google Chrome's extension, and would like to know how to deal with permissions, local storage and such), check out [Gmail Notifier Extension](#): download the crx file instead of installing it, unzip it and read its source code.

edited Apr 4 '18 at 13:04



alexi2

3,445 3 22 37

answered Feb 28 '10 at 4:56



GmonC

10.4k 1 25 36

Isn't there anything which works for all browsers ? –

[Roi Namir](#) Aug 21 '12 at 11:32

@Roi, There is [a Firefox extension](#), as well as [a native Firefox implementation which is coming sooner or later](#). In the case of Internet Explorer, a possible solution would be to ask users of your site to download [Chrome Frame](#), as this would be a viable solution to get notifications working. There is [some other Microsoft Solution](#). – [Bryan Field](#) Oct 10 '12 at 20:30

- 6 This answer is completely obsolete by now, 4 years later.
 @RoiNamir: there is the Notifications API. Check [my answer](#).
 – [Dan Dascalescu](#) Sep 14 '15 at 8:51
-

- 1 The example link is dead. – [Vinny](#) Oct 13 '17 at 19:32
-



33



It appears that `window.webkitNotifications` has already been deprecated and removed. However, there's a [new API](#), and it appears to work in the latest version of Firefox as well.

```
function notifyMe() {
  // Let's check if the browser supports notifications
  if (!("Notification" in window)) {
```

```
    alert("This browser does not support desktop notificat:");
  }

  // Let's check if the user is okay to get some notificat
  else if (Notification.permission === "granted") {
    // If it's okay let's create a notification
    var notification = new Notification("Hi there!");
  }

  // Otherwise, we need to ask the user for permission
  // Note, Chrome does not implement the permission static
  // So we have to check for NOT 'denied' instead of 'defau
  else if (Notification.permission !== 'denied') {
    Notification.requestPermission(function (permission) {

      // Whatever the user answers, we make sure we store :
      if(!('permission' in Notification)) {
        Notification.permission = permission;
      }

      // If the user is okay, let's create a notification
      if (permission === "granted") {
        var notification = new Notification("Hi there!");
      }
    });
  } else {
    alert(`Permission is ${Notification.permission}`);
  }
}
```

[codepen](#)

edited Mar 20 at 0:46

answered May 31 '14 at 20:41



[mpen](#)

128k 180 659 972

The code snippet came from [here](#). You should mention the source, instead of pretending as if you wrote it. – Miron Nov 17 '17 at 6:40

@Miron Please take a look at the hyperlink in the first

paragraph. I linked the source, and then copied the code into my answer as per SO etiquette. If MDN wasn't a wiki I might have been more explicit about who the author was, but I'm not pretending anything. – [mpen](#) Nov 17 '17 at 18:40

I don't see where he said he wrote it? – [Brandito](#) Nov 21 '17 at 3:02

codepen doesn't work – [Stepan Yakovenko](#) Mar 19 at 23:13

- 1 [@StepanYakovenko](#) Try the codepen link again. I added an extra `else` at the end to tell you what the problem is. You probably globally disabled notifications like me :\ – [mpen](#) Mar 20 at 0:45



14



I like:

<http://www.html5rocks.com/en/tutorials/notifications/quick/#toc-examples> but it uses old variables, so the demo doesn't work anymore. `webkitNotifications` is now `Notification`.

edited Sep 8 '15 at 17:38

answered Feb 19 '11 at 17:47



Rudie

29.4k

32

115

161

The Twitter example there no longer works. – [Dan Dascalescu](#) Nov 11 '12 at 2:56

You should tell html5rocks.com/en/profiles One of em must work for Twitter => – [Rudie](#) Nov 11 '12 at 10:41

Heh. Hakim was the best guy to [notify](#), since I happen to [have contributed](#) to his presentation framework. – [Dan Dascalescu](#) Nov 11 '12 at 10:44



I made this simple Notification wrapper. It works on Chrome, Safari and Firefox.

4



Probably on Opera, IE and Edge as well but I haven't tested it yet.

Just get the notify.js file from here <https://github.com/gravmatt/js-notify> and put it into your page.

Get it on Bower

```
$ bower install js-notify
```

This is how it works:

```
notify('title', {  
  body: 'Notification Text',  
  icon: 'path/to/image.png',  
  onclick: function(e) {}, // e -> Notification object  
  onclose: function(e) {},  
  ondenied: function(e) {}  
});
```

You have to set the title but the json object as the second argument is optional.

edited Jan 27 '16 at 13:18

answered Jan 13 '16 at 10:24



[gravmatt](#)

316 4 13

nuget rulz..., - [Alex](#) Dec 3 '16 at 16:06

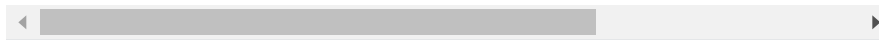
@gravmatt have you encountered an issue with Firefox where if there is more then one browser window open, the notification

does not appear ? – [eran otzap](#) Feb 21 '17 at 11:57

@eranotzap it should work with multiple tabs. I run a project where this is no problem. but I'm not sure with multiple windows. – [gravmatt](#) Feb 21 '17 at 15:58

I have the same problem with multiple tabs – [eran otzap](#) Feb 21 '17 at 16:36

- 1 @eranotzap I tested it now on windows and mac. I can't see the notification in any corner of the screen but I hear the sound of the notifications and on mac I get the notification in the sidebar (with multiple tabs open). Firefox is the new internet explorer. – [gravmatt](#) Feb 22 '17 at 16:27



```
<!DOCTYPE html>

<html>

<head>
<title>Hello!</title>
<script>
function notify(){

if (Notification.permission !== "granted") {
Notification.requestPermission();
}
else{
var notification = new Notification('hello', {
body: "Hey there!",
});
notification.onclick = function () {
window.open("http://google.com");
};
}
}
</script>
</head>

<body>
<button onclick="notify()">Notify</button>
</body>
```

answered Oct 7 '16 at 9:41

[Hina Halani](#)

104 7

- 1 Please refrain from posting code-only answers. Add a bit of comments and/or explanation, so that when people read this post in the future they will understand it. – [Adriaan](#) Oct 8 '16 at 21:04

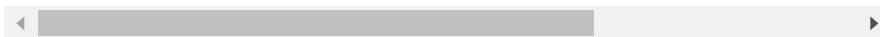
For this particular code snippet, it seems pretty straightforward, though. Other users could also post a follow up question on the comment, right? – [frosthox](#) Nov 16 '17 at 15:54

[JSfiddle](#) with the code above does not work, "Permission for the Notification API may no longer be requested from a cross-origin iframe.". However, when you open the Developer console, and enter `Notification.requestPermission();`, then `var notification = new Notification('hello', { body: "Hey there!", });` the notification shows up. –

[Kai Noack](#) Dec 22 '17 at 11:07

I'm sorry, but what exactly does this answer add to mine? –

[Dan Dascalescu](#) May 12 at 17:07



Notify.js is a wrapper around the new webkit notifications. It works pretty well.

3



<http://alxgbsn.co.uk/2013/02/20/notify-js-a-handly-wrapper-for-the-web-notifications-api/>

answered Jul 3 '14 at 22:04

[Ashley Davis](#)

7,552 6 48 68



Here is nice documentation on APIs,

<https://developer.chrome.com/apps/notifications>

3 And, official video explanation by Google,



<https://developers.google.com/live/shows/83992232-1001>

answered Apr 11 '14 at 6:32



Altaf Patel

1,069 12 26

-
- 1 That API only works in Chrome apps and extensions. It's different from the [Notifications API](#). – Dan Dascalescu Sep 14 '15 at 8:53
-