

# JavaScript Popup Generator



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## Conventions

Commands syntax, instructions in programming language and examples are with font `COURIER NEW`. The optional parties of syntactic explanation are contained between `[square parentheses]`, alternatives are separated by `|` and the variable parties are in *italics*.

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## 1 PopUp generator


This is a documentation of the JavaScript `popUpGen.js` script for generate popups.

### 1.1 Using the Popup generator

The popup is created by calling the function:

```
link = popUp(parameters)
```

where *parameters* is an associative array that contains the data necessary to personalize the popup; the function returns an object, `link`, that points to the popup generated.

Below a list of parameters,  the key parameters are indifferent to the case.

Name	Default value	Note
cancel	click	Cancel by mouse click or key (see <a href="#">here</a> for values), or mouseout or number of milliseconds
class	empty	
content	empty	Is the content that must be shown
fade	empty	From 0 to two numeric values, the first one is fade in, the second one the fade out; the values are milliseconds
height	-1	For images, on default the height is automatically determined
id	empty	
left	-1	The default value forces horizontal centering
movable	false	To make the popup movable
top	-1	The default value forces vertical centering
style	empty	
width	-1	For images, on default the width is automatically determined

### 1.2 Compatibility

Needs HTML5 for access the size of images.

### 1.3 How works

#### 1.3.1 Popup creation

The popup is inserted in the HTML tag indicated by the parameter `id` or in a `div` tag newly created if the `id` is not indicated or it does not exist; the `div` is inserted as child of `body`:

```
var link = document.body.appendChild(document.createElement("div"));
```

and style:

```
position:absolute;display:inline-block;
```

#### 1.3.2 Popup closing

The popup is removed, unless the `cancel` parameter is `no`, when a key is typed or mouse event occurs (see paragraph [1.4.1 Cancel](#)).

If the popup is into an existent HTML tag, i.e. the `id` exists, the inner content is cleared, otherwise the `div` created is removed.

## 1.4 Parameters

### 1.4.1 Cancel

`click|no|mouseout|key|number`

This indicates how the popup can be closed:

- number* is a milliseconds of the popup life, *number* is inclusive of any *fade* duration;

- `no` means that the popup remains on the page (see paragraph 2.3 *Cancel a permanent popup*);
- `mouseout` indicates the popup disappears when the mouse comes out of the popup.
- key see [here](#) for values; some possible keys are: Delete, Enter, Escape, Tab.

`Click`, `mouseout` and `no` are indifferent to case.

#### 1.4.2 Class

Adds a `class` to the popup container.

#### 1.4.3 Content

Is the popup content that is inserted on the `div` created.


Content can be a name of a file image of type `.jpg`, `.jpeg`, `.png` or `.gif` or any HTML fragment.

#### 1.4.4 Fade

Can contains up to two numbers space separated: the first one is fade in time, the second one the fade out time; the time values are in milliseconds; if only fade out is requested the fade in must be present with value 0, for example: `{content: '...', fade: "0 2000", ...}`

#### 1.4.5 Id

Is the `id` of the element where the `content` of the popup will be inserted.

 The lack of `id` or an `id` nonexistent is the necessary condition for a movable popup.

#### 1.4.6 Left and Top

These parameters are taken into account if a container `id` is not indicated or this doesn't exist.

If the value are `-1` (the default) the popup is centered.

#### 1.4.7 Movable

The parameter is taken into consideration if the parameter `id` is omitted or the `id` is not existent; if `movable:true` the popup can be manually moved.

#### 1.4.8 Style

Add a style to a popup container, for example: `"style":"text-align: center"`.

#### 1.4.9 Width and Height

They determine the size of the popup,  it makes sense for popups with images.

A value `-1` doesn't change the relative dimension.

Setting `width` and `height` at the same time can possibly distort image, vice versa, setting one of the parameters maintains the proportions of a possible image.

## 2 Examples

### 2.1 Center

Due to the default values of `top` and `left` parameters it is only necessary the `content`. The popup disappears by a mouse `click`.

```
popup({content: 'images/rabbitLake.png'})
```

### 2.2 Cancel by Escape key

In addition to the `content`, the `cancel` parameter must be set to `Escape`.

```
popup({content: '...', cancel: 'Escape', ...})
```

### 2.3 Cancel a permanent popup

```
PopupDiv = popup({content: '...', cancel: 'No', ...})
...
var remove = x => x.remove();
```

```
...
remove (popUpDiv);
```

## 2.4 Fading


The fade can affect both the display and the disappearance of the popup.

```
popUp({'content': '...', 'fade':'2000',...}) // fade in two seconds
popUp({'content': '...', 'fade':'0 2000',...}) // fade out two seconds
```

## 2.5 Show random image

The example presupposes an application on the server, in the example below a PHP script.

```
Var parms = {...}
parms.content = "<img src='getImage.php?R="+Date.now()+"'>";
```

 The ?R="+Date.now() is to avoid the image caching.

See the paragraph 3.2 for an example of sending a random image by a PHP script on server.

## 2.6 Popup of text and images

```
var complex = `
<table>
<thead>
  <tr>
    <th colspan=3>Form Generator for B4A</th>
  </tr>
</thead>
<tr>
<td></td>
<td><ul>
<li>Has been added a Timer management,
</li><li>A view Toggle, possibly with image with more than two states,
</li><li>Added CKL, a check boxes list;
</li><li>%#months returns a month number from 1 to 12,
</li><li>an error on Reset button in Tabs and Section has been corrected.
</li></ul></td>
<td></td>
</table>`
...
Var parms = {...}
parms.content = complex;
```

## 3 Annexes

### 3.1 Sandbox

In the site <https://www.condorinformatique.com/PopUp/index.html> there is a demo useful for test the capabilities of the package.

### 3.2 PHP script for get a random image

```
<?php
function randomImg($folder) {
    $aImages = chooseImages($folder);
    return $aImages[rand(0,count($aImages)-1)];
}
function chooseImages($folder) {
    $aImages = glob($folder . '/*.{jpg,jpeg,png,gif}', GLOB_BRACE);
    $aBigImages = [];
    foreach($aImages as $k => $file) {
        if (filesize($file) > 10000) array_push($aBigImages,$aImages[$k]);
    }
    return $aBigImages;
}
if (isset($_REQUEST["List"])){
    $aImages = chooseImages("images");
    $re = '/^.*\/(.*)\..*$/mi';
    foreach($aImages as $k => $file) {
        preg_match($re,$aImages[$k],$matches);
        $aImages[$k] .= "=". $matches[1];
    }
    echo implode(",",$aImages);
} else {
    $fileImage = randomImg("images");
    $aMimeTypes = array('jpeg' => 'image/jpeg',
                        'jpg' => 'image/jpeg',
                        'png' => 'image/png',
                        'gif' => 'image/gif',);
    $path_parts = pathinfo($fileImage);
    header("Content-type: ".$aMimeTypes[$path_parts['extension']]);
    readfile("$fileImage");
}
exit(0);
?>
```

## 4 History

- |       |                |                                                                                                                                                                                                                          |
|-------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.1.0 | 30 March 2020  | First version                                                                                                                                                                                                            |
| 0.1.1 | 26 April 2020  | Correct resizing of image                                                                                                                                                                                                |
| 0.1.2 | September 2024 | <ul style="list-style-type: none"><li>• Added the parameter <code>movable</code>,</li><li>• the function now returns the object div created that contains the popup.</li><li>• the center of popup is correct.</li></ul> |
| 0.1.3 | October 2024   | <ul style="list-style-type: none"><li>• Correct positioning of the popup on the screen.</li></ul>                                                                                                                        |