



free|gsm.ro

Online Image Editor

Live demo at www.FreeGSM.ro

FreeGSM.ro is a site created to offer free, high quality logos and wallpapers for the Internet user that have mobile phones.

The whole site is built around the "**FreeGSM Online Image Editor & Logo Generator**", a powerful application designed to help users manipulate images online, in a browser, without any additional application installed.



Basic Concepts

The application is used as the following scenario describes:

- 1) A user comes to the site and uploads a picture
- 2) He resizes and crops it to fit it's mobile phone screen
- 3) He saves the resized/cropped picture. This is called "*temporary logo*". The image from which was created (the original one is called "*temporary image*").
- 4) If he chooses to contribute with the image he uploaded to the site's logos and images gallery, until an administrator approves them to get in the public site gallery, they will be called "*contributed images*" and "*contributed logos*". If the user does not contribute, they will remain as "*temporary images*" and "*temporary logos*".
- 5) Any other user may come on the site and browse the freegsm image/logo gallery and pick up his own logo for his mobile, being able to edit it to fit on his mobile phone's screen.

These terms are used mostly in the Administrator section.

Features

Image Opening:

- Opening image from the local computer
You can open any JPG, GIF, PNG image from your local computer. After the picture has been uploaded on the server, it will be displayed in the left part.
- Opening image from local gallery
This application comes with a picture gallery script inside it, that helps you navigate through the images you want and load in the application for editing and further processing.

Image Editing & Processing:

Resizing:

- Clicking "Interactive" and dragging the mouse with the left button pressed over the image. The image will automatically resize while you'll move your mouse
- Choosing a phone from list and automatically resize the image at it's screen dimensions
- Resize by a percent. You can select at how much to resize from the current image (ex. 70%)
- Resize by clicking "Advanced" and entering dimensions manually.
- Fine resizing by clicking the 4 arrowed yellow circle.

Cropping:

- The green rectangle containing the battery and signal in the top represents the virtual phone screen, represents the cropping rectangle. What is inside it will appear in the final exported image. Clicking "Interactive" will let you crop using the mouse directly on the image.
- Cropping by a predefined phone screen (chosen from the list of phones)
- Crop all image (sets the cropping rectangle at the image's dimensions)
- Crop by clicking "Advanced" and enter cropping rectangle coordinates manually
- Fine moving of cropping rectangle by clicking the 4 arrowed yellow circle.

Rotating:

- Image rotating can be done at 0°, 90°, 180° and 270° by pressing "Rotate"

Color enhancement:

- You can make the image in shades grey.
- You can increase the brightness of the image.

Image saving:

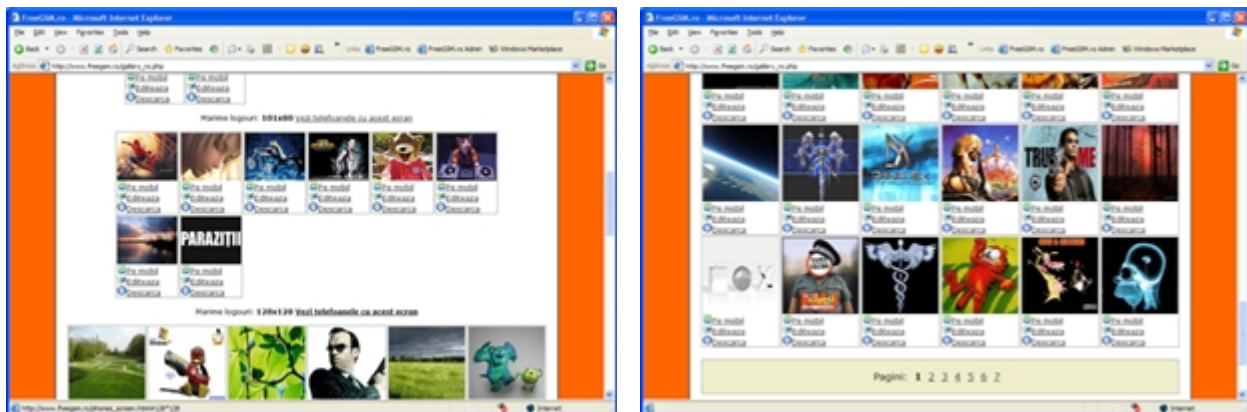
- You can save in JPG and GIF.
- For JPG, you can set the quality of the exported image between 1 and 100. 100 means greater quality.
- Once saved, you may download the picture to your mobile phone through WAP or data cable. Also, there is the option to save it on your computer.
- You may also choose to contribute with the image you have just created to the site's image's gallery. When contributing, both original images and created images will be put on a pending list for the approval by the administrator of the site, so that only approved images will go in the public gallery.

Other features:

- Multi-language support. Currently have English, French, German, Espagnol, Romanian. Other languages can be added on demand.
- Configurable banners locations.

Logo Gallery:

The logos which were contributed and approved by the administrator can be found in the public logo gallery. Sorted on categories, and displayed together grouped by phone screen size to which belong, anyone can download, edit or find out the direct WAP link for the logo intended to download.



Screen shots from logo gallery (http://www.freegsm.ro/gallery_en.php)

Administrator section:

In order to manage images, logos, contributed images, contributed logos, temporary images and temporary, the administrator of the site has a special designed administrator section. From here he can approve the images contributed to go public, delete images, move images through categories, etc ...

WAP page:

There also exists a WAP page for this application, the equivalent of the public logo gallery on the site. From here you can browse logos by categories and download them on your phone. If a certain logo is not suitable for your phone's screen size, you can resize it on the fly and get a copy of the resized logo.

Security

Security is a very important issue in today's software applications, especially the web applications.

That's why FreeGSM Online Image Editor has a way of handling different situations intended to bring it down.

The security item is formed by three techniques:

Advanced input validation. This includes:

- Fields validation
- Image upload validation (user cannot insert non-images, or very huge images, etc)

Protection for Flooding. This includes:

- If the same IP is doing operations like "Uploading", "Saving", "Contributing" at a very little time delay between them, the operation will be delayed with a certain settable interval of time.
- A script is ran every 30 minutes to see if there is danger of flooding (many images uploaded). In case the space occupied by the images flooding dangerously increases, the script *deletes* the temporary images/logos and contributed images/logos uploaded since the last flooding check, such that a normal user using this application will never feel the effect of someone flooding it. This script reports the quantity of all the types of images and logos found at that moment.
Also, based on this script it can be made charts to see the evolution of users working with this application. The results are sent to a specified email address.

Source code protection.

Due the fact this application is written in HTML, using Javascript it's source code can be easily stolen or modified by anyone.

That's why, all code delivered is obfuscated with a powerful obfuscator (developed by me especially for this software). It obfuscates the Javascript inside it and makes it impossible to reverse into the original code and understand the logic of what's happening there.

Platform

This application requires the following things for the server-side part:

- Apache 1.x or 2.x for Windows or Linux
- PHP (may be 4 and 5, works well on both)
- MySQL (version 4 or above)

Client application requires:

Internet Explorer 5 or greater.

Unfortunately, due to the proprietary imaging-processing technologies of IE >5, this application cannot run on Opera or on Mozilla Firefox functioning 100%. Due to the fact that is frustrating to tell the user "Real time brightness, rotation and greyscale is not available in this browser", I preferred to leave it working only for Internet Explorer.

Delivery

Delivery of this software product is done under the following conditions:

- All source code is delivered, but OBFUSCATED. Read above what obfuscation means and why it's crucial for this kind of application.
- Buying this application also includes:
 - Customizing the logo to put your own company logo
 - Adding two banners in the locations desired (if needed)
 - An installation on your server (this includes copying the files, setting up database, setting up the administrator section and running a simple test). The CPANEL password is required for having the full rights while installing.
- Any changes, updates, requests will made at an additional price established by both parties.
- The buyer must agree the standard terms for selling and buying software. Also, the buyer has to be aware that under no circumstances the seller will be held responsible for any kind of damage brought by using this application.

Contact

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