

JavaScript for Beginners - Photo Effects and Galleries

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Add image effects and galleries to your websites by using pre-written JavaScript readily available on the internet at low or no cost. Explore pop-up and zoom image functionality; build transitional, carousel, and thumbnail galleries. Gain real world experience and begin to utilize a growing and exciting number of JavaScript-driven webpage enhancements.

Class Exercises:

Simple Image Effects

1. Glossy
2. Instant

Image Pop-ups

1. Lightbox
2. Shadoxbox

Zoom! Zoom! Zoom!

1. Single image zoom
2. Multi-image zoom

Slideshow

1. Ultimate
2. Cycle

SIMPLE IMAGE EFFECTS

JavaScript can be used to add instant effects to your webpage images. The following effects, when applied, have a default look. That default look can be modified. The following exercises are based off free image effects found at:

- <http://www.netzgesta.de/cvi/>

GLOSSY.JS

Glossy.js is a very easy JavaScript effect to integrate into your webpage. By default, the script adds rounded corners, drop shadow and a glossy look to your image. This image effect, including instructions for use and file downloads can be found at:

- <http://www.netzgesta.de/glossy/>

IN ADOBE BRIDGE:

1. Locate and select fx-1.jpg in the 'site-working' folder
2. Right-click and choose *open with* Photoshop

IN ADOBE PHOTOSHOP:

1. From the Menu Bar, go to Image > Image Size
2. Set the image width value to 408 pixels
3. Set the interpolation to Bicubic Sharper
4. From the Menu Bar, go to View > Actual Pixels
5. From the Menu Bar, go to File > Save for Web & Devices...
6. Set the save preset to JPEG High (quality of 60)
7. Save the file into the 'site-media' folder
8. Close the fx-1.jpg file – do NOT save

IN ADOBE DREAMWEAVER:

1. Open simple-fx.html
2. Working in Design View
3. Replace the page left image with fx-1.jpg from the 'site-media' folder
4. Be sure the image is not scaled in the Properties Panel

TO ACCESS THE GLOSSY.JS FUNCTIONALITY:

1. Switch to Code View
2. Make room the <head> section to add a link to an external .js file
3. From the Menu Bar, Insert > HTML > Script Objects > Script
4. Link to the external .js file: site-javascript/glossy/glossy.js

TO ADD THE GLOSSY.JS EFFECT:

1. Working in Design View
2. Select the fx-1.jpg image
3. Switch to Code View
4. Within the fx-1.jpg image tag, add class="glossy"
5. Save your file
6. From the Menu Bar, File > Preview in Browser > Firefox

TO MODIFY THE DEFAULT LOOK:

1. For a different look, change to class="glossy noshadow"
2. Save your file
3. Refresh your Firefox page
4. For yet another different look, class="glossy iradius40"
5. Save your file
6. Refresh your Firefox page

SO WHERE DID THIS STUFF COME FROM?

- Visit: <http://www.netzgesta.de/glossy/>

INSTANT.JS

Instant.js is another easy script to implement. By default, this script adds a white border, drop shadow and tilt to your image. This image effect, including instructions for use and file downloads can be found at:

- <http://www.netzgesta.de/instant/>

IN ADOBE BRIDGE:

1. Locate and select fx-2.jpg in the 'site-working' folder
2. Right-click and choose *open with* Photoshop

IN ADOBE PHOTOSHOP:

1. From the Menu Bar, go to Image > Image Size
2. Set the image width value to 408 pixels
3. Set the interpolation to Bicubic Sharper
4. From the Menu Bar, go to View > Actual Pixels
5. From the Menu Bar, go to File > Save for Web & Devices...
6. Set the save preset to JPEG High (quality of 60)
7. Save the file into the 'site-media' folder
8. Close the fx-2.jpg file – do NOT save

IN ADOBE DREAMWEAVER:

1. Working in Design View
2. Replace the page right image with fx-2.jpg from the 'site-media' folder
3. Be sure the image is not scaled in the Properties Panel

TO ACCESS THE INSTANT.JS FUNCTIONALITY:

1. Switch to Code View
2. Make room the <head> section to add a link to an external .js file
3. From the Menu Bar, Insert > HTML > Script Objects > Script
4. Link to the external .js file: site-javascript/instant/instant.js

TO ADD THE INSTANT.JS EFFECT:

1. Working in Design View
2. Select the fx-2.jpg image
3. Switch to Code View
4. Within the fx-2.jpg image tag, add class="instant"
5. Save your file
6. From the Menu Bar, File > Preview in Browser > Firefox

TO MODIFY THE DEFAULT LOOK:

1. For a different look, change to class="instant historical"
2. Save your file
3. Refresh your Firefox page
4. For yet another different look, class="instant icolor002748"
5. Save your file
6. Refresh your Firefox page
7. For yet another different look, class="instant itiltnone"
8. Save your file
9. Refresh your Firefox page

TO ADD A CAPTION BASED ON THE ALT ATTRIBUTE

1. Working in Design View
2. Select the fx-2.jpg image
3. Give the fx-2.jpg a short 'alt' in the Properties Panel
4. Switch to Code View
5. Make room the <head> section to add a link to a second external .js file
6. From the Menu Bar, Insert > HTML > Script Objects > Script
7. Link to the external .js file: site-javascript/instant/cvi_text_lib.js
8. Within your image tag, add class="instant itxtalt"
9. Save your file
10. Refresh your Firefox page

TEST WHAT YOU KNOW:

1. Go to <http://www.netzgesta.de/instant/>
2. Under the Classes section, find the element that allows you to control the color of the caption text
3. Modify class="instant itxtalt" so that your caption color is bright red (FF0000)

IMAGE POP-UPS

JavaScript can be used to add pop-up interactivity to your images. A pop-up typically consists of a small image (thumbnail), which when clicked, pops open a larger version of the image in a separate window. Pop-ups are often used when 'real estate' (space) issues exist on a webpage.

LIGHTBOX

One of, if not the original, 'box' JavaScript pop-up tools. Like the previous image effects, pop-up functionality is to be supplied by an external .js file. Users can control the 'look and feel' of the pop-up window by editing a set of CSS rules. This pop-up effect, including instructions for use and file downloads can be found at:

- <http://www.huddletogether.com/projects/lightbox/>

IN ADOBE BRIDGE:

1. Locate and select both pop-up-1.jpg and pop-up-2.jpg in the 'site-working' folder
2. Right-click and choose *open with* Photoshop

IN ADOBE PHOTOSHOP:

1. Highlight pop-up-1.jpg
2. From the Menu Bar, go to Image > Image Size
3. Set the image width value to 600 pixels
4. Set the interpolation to Bicubic Sharper
5. From the Menu Bar, go to View > Actual Pixels
6. From the Menu Bar, go to File > Save for Web & Devices...
7. Set the save preset to JPEG High (quality of 60)
8. Save the image as pop-up-1-big.jpg into the 'site-media' folder
9. From the Menu Bar, go to Image > Image Size
10. Set the image width value to 200 pixels
11. Set the interpolation to Bicubic
12. From the Menu Bar, go to View > Actual Pixels
13. From the Menu Bar, go to File > Save for Web & Devices...
14. Set the save preset to JPEG High (quality of 60)
15. Save the image as pop-up-1-small.jpg into the 'site-media' folder
16. Close the pop-up-1.jpg file – do NOT save
17. Repeat the multi resize/save process above for pop-up-2.jpg
18. Close the pop-up-2.jpg file – do NOT save

IN ADOBE DREAMWEAVER:

1. Open pop-up.html
2. Working in Design View
3. Replace the page left, left image with pop-up-1-small.jpg from the 'site-media' folder
4. Replace the page left, right image with pop-up-2-small.jpg from the 'site-media' folder
5. Be sure both images are not scaled in the Properties Panel
6. Link pop-up-1-small.jpg to pop-up-1-big.jpg in the Properties Panel
7. Link pop-up-2-small.jpg to pop-up-2-big.jpg in the Properties Panel
8. Save your file
9. From the Menu Bar, File > Preview in Browser > Firefox
10. Test your image links

TO ADD THE LIGHTBOX POP-UP FUNCTIONALITY AND CSS:

1. Switch to Code View
2. Make room the <head> section to add a link to an external .js file
3. From the Menu Bar, Insert > HTML > Script Objects > Script
4. Link to the external .js file: site-javascript/lightbox/lightbox.js
5. In the CSS Panel, click the Attach Style Sheet icon (chain links)
6. Attach: site-javascript/lightbox/lightbox.css

TO ADD THE LIGHTBOX POP-UP EFFECT:

1. Working in Design View
2. Select the pop-up-1-small.jpg image
3. Switch to Code View
4. Within the pop-up-1-small.jpg link tag <a>, add rel="lightbox"
5. Within the pop-up-2-small.jpg link tag <a>, add rel="lightbox"
6. To add a pop-up window caption, within the pop-up-2-small.jpg link tag <a>, title="change me"
7. Save your file
8. Refresh your Firefox page
9. Click on you pop-ups

TO MODIFY THE DEFAULT CSS LOOK:

1. In the CSS panel, double-click to modify the #lightbox rule
2. In the Background section, change the Background-color value to one of your own liking
3. Save your files
4. Refresh your Firefox page
5. Click on your pop-ups

MODIFY THE LIGHTBOX.JS FILE:

1. In the Files panel, double-click to open: site-javascript/lightbox/lightbox.js
2. In line 38, change to 'site-javascript/lightbox/loading.gif'
3. In line 39, change to 'site-javascript/lightbox/close.gif'
4. Save your files
5. Refresh your Firefox page
6. Click on your pop-ups

SHADOWBOX

Based off the original Lightbox tool, pop-up functionality is also supplied by an external .jf file. Users can control the 'look and feel' of the pop-up window by editing a set of CSS rules. The pop-up tool can easily be modified to create a pop-up gallery. This pop-up effect, including instructions for use and file downloads can be found at:

- <http://www.shadowbox-js.com/index.html>

REMOVE THE CONFLICT BETWEEN LIGHTBOX AND SHADOWBOX

1. Working in Code View
2. In the <head> section, remove the links to the lightbox.js and lightbox.css files
3. Remove the rel="lightbox" from each lightbox'd image link
4. Save your files and refresh your Firefox page
5. Save your files
6. Refresh your Firefox page
7. Click on your pop-ups

IN ADOBE BRIDGE:

1. Locate and select both pop-up-3.jpg and pop-up-4.jpg in the 'site-working' folder
2. Right-click and choose *open with* Photoshop

IN ADOBE PHOTOSHOP:

1. Highlight pop-up-3.jpg
2. From the Menu Bar, go to Image > Image Size
3. Set the image width value to 600 pixels
4. Set the interpolation to Bicubic Sharper
5. From the Menu Bar, go to View > Actual Pixels
6. From the Menu Bar, go to File > Save for Web & Devices...
7. Set the save preset to JPEG High (quality of 60)
8. Save the image as pop-up-3-big.jpg into the 'site-media' folder
9. From the Menu Bar, go to Image > Image Size
10. Set the image width value to 200 pixels
11. Set the interpolation to Bicubic
12. From the Menu Bar, go to View > Actual Pixels
13. From the Menu Bar, go to File > Save for Web & Devices...
14. Set the save preset to JPEG High (quality of 60)
15. Save the image as pop-up-3-small.jpg into the 'site-media' folder
16. Close the pop-up-3.jpg file – do NOT save
17. Repeat the multi resize/save process above for pop-up-4.jpg
18. Close the pop-up-4.jpg file – do NOT save

IN ADOBE DREAMWEAVER:

1. Working in Design View
2. Replace the page right, left image with pop-up-3-small.jpg from the 'site-media' folder
3. Replace the page right, right image with pop-up-4-small.jpg from the 'site-media' folder
4. Be sure both images are not scaled in the Properties Panel
5. Link pop-up-3-small.jpg to pop-up-3-big.jpg in the Properties Panel
6. Link pop-up-4-small.jpg to pop-up-4-big.jpg in the Properties Panel

TO ADD THE SHADOWBOX POP-UP FUNCTIONALITY AND CSS:

1. Switch to Code View
2. Make room the <head> section to add a link to an external .js file
3. From the Menu Bar, Insert > HTML > Script Objects > Script
4. Link to the external .js file: site-javascript/shadowbox/shadowbox.js
5. Add the following to the <head> section:
`<script type="text/javascript"> Shadowbox.init(); </script>`
6. In the CSS Panel, click the Attach Style Sheet icon (chain links)
7. Attach: site-javascript/shadowbox/shadowbox.css

TO ADD THE SHADOWBOX POP-UP EFFECT:

1. Working in Design View
2. Select the pop-up-3-small.jpg image
3. Switch to Code View
4. Within the pop-up-3-small.jpg link tag, add rel="shadowbox"
5. Within the pop-up-4-small.jpg link tag, add rel="shadowbox"
6. To add a pop-up window caption, within the pop-up-4-small.jpg link tag <a>, title="change me"
7. Save your files
8. Refresh your Firefox page
9. Click on your shadowbox pop-ups

TO CREATE A SHADOWBOX POP-UP GALLERY:

1. Working in Code View
2. Within the pop-up-3-small.jpg link tag, change to rel="shadowbox[group]"
3. Within the pop-up-4-small.jpg link tag, change to rel="shadowbox[group]"
4. Save your files
5. Refresh your Firefox page
6. Click on your shadowbox pop-ups

POP-UP FROM TEXT LINK: TEST WHAT YOU KNOW!

1. Link this text to pop-up-4-big.jpg
2. Add rel="shadowbox" to the text link tag
3. Save your files
4. Refresh your Firefox page
5. Click on the text link above

POP-UP ALTERNATIVES:

- <http://visuallightbox.com/index.html>
- <http://fancybox.net/home>
- <http://colorpowered.com/colorbox/>
- <http://highslide.com/>
- Additional Lightbox spin-offs

ZOOM! ZOOM! ZOOM!

JavaScript can be used to add zoom interactivity to your images. A zoom typically consists of a smaller image, which when rolled over with a mouse, reveals a larger, more detailed version of the image. JavaScript zooms are also often used when 'real estate' (space) issues exist on a webpage. Zooms are also used when image details need to be supplied to an audience.

MAGIC ZOOM: INNER ZOOM

MagicZoom is not a free JavaScript tool, but is well worth the cost. Users can download a trial version of the product and test it for functionality. If functionality needs are met, a commercial version of the product can be purchased. Users then simply replace the trial .js file with the commercial .js file. No additional page modifications need to be made. This pop-up effect, including instructions for use and file downloads can be found at:

- <http://www.magictoolbox.com/magiczoom/>

IN ADOBE BRIDGE:

1. Locate and select magic-zoom.jpg in the 'site-working' folder
2. Right-click and choose *open with* Photoshop

IN ADOBE PHOTOSHOP:

1. Highlight magic-zoom.jpg
2. From the Menu Bar, go to Image > Image Size
3. Set the image width value to 1600 pixels
4. Set the interpolation to Bicubic Sharper
5. From the Menu Bar, go to View > Actual Pixels
6. From the Menu Bar, go to File > Save for Web & Devices...
7. Set the save preset to JPEG Medium (quality of 30)
8. Save the image as magic-zoom-big.jpg into the 'site-media' folder
9. From the Menu Bar, go to Image > Image Size
10. Set the image width value to 408 pixels
11. Leave the interpolation on Bicubic
12. From the Menu Bar, go to View > Actual Pixels
13. From the Menu Bar, go to File > Save for Web & Devices...
14. Set the save preset to JPEG High (quality of 60)
15. Save the image as magic-zoom-small.jpg into the 'site-media' folder
16. Close the magic-zoom.jpg file – do NOT save

IN ADOBE DREAMWEAVER:

1. Open zoom.html
2. Working in Design View
3. Replace the page left image with magic-zoom-small.jpg from the 'site-media' folder
4. Be sure the images is not scaled in the Properties Panel
5. Link magic-zoom-small.jpg to magic-zoom-big.jpg in the Properties Panel

TO ADD THE MAGICZOOM FUNCTIONALITY AND CSS:

1. Switch to Code View
2. Make room the <head> section to add a link to an external .js file
3. From the Menu Bar, Insert > HTML > Script Objects > Script
4. Link to site-javascript/magiczoom-trial/magiczoom.js
5. In the CSS Panel, click the Attach Style Sheet icon (chain links)
6. Attach: site-javascript/magiczoom-trial/magiczoom.css

TO ADD THE MAGICZOOM EFFECT:

1. Working in Design View
2. Select the magic-zoom-small.jpg image
3. Switch to Code View
4. Within the magic-zoom-small.jpg link tag, add
class="MagicZoom" rel="zoom-position:inner;"
5. Save your files
6. Refresh your Firefox page
7. Roll-over your MagicZoom'd image

MODIFY THE DEFAULT LOOK:

1. Within the magic-zoom.jpg link tag, change to:
rel="zoom-position:right;"
2. Save your files
3. Refresh your Firefox page
4. Roll-over your MagicZoom'd image
5. Within the magic-zoom.jpg link tag, change to:
rel="zoom-position:right;zoom-fade:true"
6. Save your files
7. Refresh your Firefox page
8. Roll-over your MagicZoom'd image

MAGIC ZOOM: MULTI-IMAGE INNER ZOOM

MagicZoom can also be rigged to create a multi-image zoom gallery. To see the standard single image MagicZoom and multi-image MagicZoom in action, visit:

- <http://www.lilylotus.com/index.html>
- <http://www.onehulagirl.com/>
- <http://www.blaisedomino.com/>

IN ADOBE DREAMWEAVER:

1. Replace the page right, large image with multi-zoom-1-medium.jpg from the 'site-media' folder
2. Be sure the images are not scaled in the Properties Panel
3. Link multi-zoom-1-medium.jpg to multi-zoom-1-big.jpg in the Properties Panel
4. Replace the thumbnails, from left to right, with multi-zoom-1-thumb.jpg, multi-zoom-2-thumb.jpg and multi-zoom-3-thumb.jpg in the Properties Panel
5. Link the thumbnails, from left to right, to multi-zoom-1-big.jpg, multi-zoom-2-big.jpg and multi-zoom-3-big.jpg in the Properties Panel

TO ADD THE MAGICZOOM EFFECT:

1. Working in Design View
2. Select the page right, large image
3. Switch to Code View
4. Within the large image link tag, add:
`class="MagicZoom" id="Zoomer" rel="zoom-position:inner;"`
5. Within the left thumbnail link tag, add:
`rel="zoom-id:Zoomer" rev=" site-media/multi-zoom-1-medium.jpg"`
6. Within the middle thumbnail link tag, add:
`rel="zoom-id:Zoomer" rev=" site-media/multi-zoom-2- medium.jpg"`
7. Within the right thumbnail link tag, add:
`rel="zoom-id:Zoomer" rev=" site-media/multi-zoom-3- medium.jpg"`
8. Save your files
9. From the Menu Bar, File > Preview in Browser > Firefox
10. Roll-over your MagicZoom'd gallery

JAVASCRIPT SLIDESHOWS

JavaScript slideshows are a great way of adding spice to your static webpages. There are dozens (hundreds?) of different slideshow solutions available on the web. We will now explore two of them.

ULTIMATE FADE-IN SLIDESHOW

This slideshow solution supports captioning and linking as well as additional modifications to adjust slideshow behavior (speed, randomness etc.). This image slideshow, including instructions for use and file downloads can be found at:

- <http://www.dynamicdrive.com/dynamicindex14/fadeinslideshow.htm>

IN DREAMWEAVER

1. Create a new folder inside your 'site-javascript' folder called 'ultimate'

IN FIREFOX

1. Navigate to the link above
2. Download the fadeslideshow.js offered on the page to the 'site-javascript/ultimate' folder
3. Copy the large chunk of code which you are told must be inserted into the your page <head>In Dreamweaver

IN DREAMWEAVER

1. Open slideshow.html
2. Switch to Code View
3. Make room the <head> section to add the copied code
4. Paste the code into the <head> section

CLEAN-UP WHAT YOU PASTED

1. Carefully delete the second slideshow - we only need 1
2. Modify the fadeslideshow.js link to read: `src="site-javascript/ultimate/fadeslideshow.js">`
3. Remove the empty lines in the head section

IN FIREFOX

1. Navigate to the link above
2. Find and copy `<div id="fadeshow1"></div>`

IN DREAMWEAVER

1. Switch to Design View
2. Select the page left image that reads "Slideshow will appear HERE"
3. Switch to Code View
4. Delete both the image and the `<div>` that surrounds it
5. Paste `<div id="fadeshow1"></div>` in its place
6. Save your file
7. Refresh your Firefox page

TIME PERMITTING

1. Modify or delete slideshow links
 2. Modify or delete slideshow captions
 3. Replace slideshow images (408x306)
 4. Modify slideshow behaviors
 5. Create a CSS rule to control `<div id="fadeshow1"></div>`
-

JQUERY CYCLE SLIDESHOW

Wow...an amazingly easy slideshow to set up with tons of interesting display options. We will also take advantage of the 'example' file provided in the product download. This image slideshow, including instructions for use and file downloads can be found at:

- <http://www.malsup.com/jquery/cycle/>

IN ADOBE BRIDGE

1. Select cycle-1.psd, cycle-2.psd, cycle-3.psd and cycle-4.psd
2. From the Menu Bar, go to Tools > Photoshop > Image Processor
3. Select JGEG as the only file type to be processed
4. Set the quality to 6
5. Set the width to 408 - height to 306
6. Choose to Save in same location - hit Run
7. Open the newly created JPEG folder
8. Select the 4 processed images
9. Right-click and choose Move to > Choose folder
10. Move the 4 images to the 'site-media' folder

1. Working in Design View
2. Select the page right image which reads "Slideshow will appear HERE"
3. Replace the image with cycle-1.jpg from the 'site-media' folder
4. Open the following file: site-javascript/jquery-cycle/example.html
5. In example.html, switch to Code View
6. In the <head> section, copy the link to jquery.min.js
7. Switch back to slideshow.html
8. Switch to Code View
9. Make room the <head> section to add the copied link
10. Paste the copied link
11. Make room the <head> section to add a link to an external .js file
12. From the Menu Bar, Insert > HTML > Script Objects > Script
13. Link to the external .js file: site-javascript/jquery-cycle/jquery.cycle.all.min
14. Switch back to example.html
15. Working in Code View
16. Copy the third, multi-line <script>
17. Switch back to slideshow.html
18. Working in Code View
19. Make room the <head> section to add the copied code
20. Paste the copied code
21. Switch back to Design View
22. Select the page right image (cycle-1.jpg)
23. Switch back to Code View

24. Change the <div> surrounding cycle-1.jpg from:
class="img-box" to class="slideshow"
25. Copy the image code
26. Paste the image code three times to support a total of four images
27. Change the three pasted image names to cycle-2, cycle-3 and cycle-4
28. Save your file
29. Refresh your Firefox page

TIME PERMITTING

1. Modify slideshow style
2. Create a CSS rule to control <div class="slideshow"></div>