Using Images In WordPress

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Using Images In WordPress

WordPress Training

Name	Size	Kind I
svenue-2215317.jpg	11.04 MB	JPEG image
sealed.jpg	1.48 MB	JPEG image
road-1072821_1920.jpg	1.18 MB	JPEG image
road-1072823_1920.jpg	986 KB	JPEG image
avenue-2215317-2048x1365.jpg	971 KB	JPEG image
car-engine-1548434_1920.jpg	671 KB	JPEG image
road-1072821_1920-1568x1045.jpg	669 KB	JPEG image
mountain-landscape-2031539_1920.jpg	666 KB	JPEG image
road-1072821_1920-1536x1024.jpg	636 KB	JPEG image
dolomites-3670076_1920.jpg	588 KB	JPEG image
mountains-1761292_1920.jpg	562 KB	JPEG image
avenue-2215317-1568x1045.jpg	561 KB	JPEG image
road-1072823_1920-1568x915.jpg	544 KB	JPEG image
forest-931706_1920.jpg	543 KB	JPEG image
avenue-2215317-1536x1024.jpg	537 KB	JPEG image
road-1072823_1920-1536x897.jpg	520 KB	JPEG image

If your website uses loads of images, your site may have to store hundreds or even thousands of images.

Uploading loads of images to your server can lead to an excessively large image folder.

This can cause your site to exceed its hosting quota, create problems with data backups, slow down page loading times, and other issues.

Knowing how to use images correctly in WordPress can help you avoid many problems.

This tutorial covers:

- How to create and save images correctly in WordPress.
- How to reduce your image file size without compromising image quality
- How to optimize the size of your image files to help improve your site's page loading speed.

Avoid Using Large Image Files On Your Website

Images uploaded to the **WordPress Media Library** are stored on your web hosting server.

If you must use large media files or plan to add lots of images to your website, we recommend using a cloud storage service (e.g. **<u>Amazon S3</u>**, **<u>Dropbox</u>**, etc.) instead of uploading and storing these in your WordPress Media Library.

Note: If you store images on the cloud, use the Add Media tool's 'Insert from URL' feature to add the image to your content.

Actions	Insert from URL	×
Add media Create gallery	https://zzztemp.s3.us-east-1.amazonaws.com/avenue-2215317.jpg	
Create audio playlist Create video playlist Featured image	Alternative Text Describe the purpose of the image. Leave empty if the i Caption Stored on a cloud serve not in your Media Librar L	
	This is a large image	ost

Use an external storage service for adding large media files to WordPress!

To learn how to use the Add Media 'Insert from URL' tool, see this tutorial: <u>How To Add</u> <u>Images To WordPress</u>

Some situations, however, may not be avoidable.

For example, if you <u>run an eCommerce store on WordPress</u> using a platform like <u>WooCommerce</u>, you may have to upload all your product images to your site using the WordPress media library.

In this case, make sure that you are not uploading images that are larger than necessary.

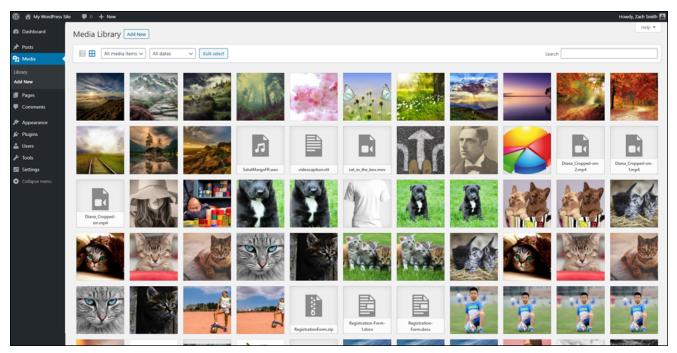


Uploading large images like these to your Media Library may cause performance issues on your site.

Let's see why this is a problem...

Media File Management

Images, videos, and other media uploaded to your website are normally managed through the **WordPress Media Library**.



WordPress Media Library.

Your media settings are configured in your **Media Settings** section.

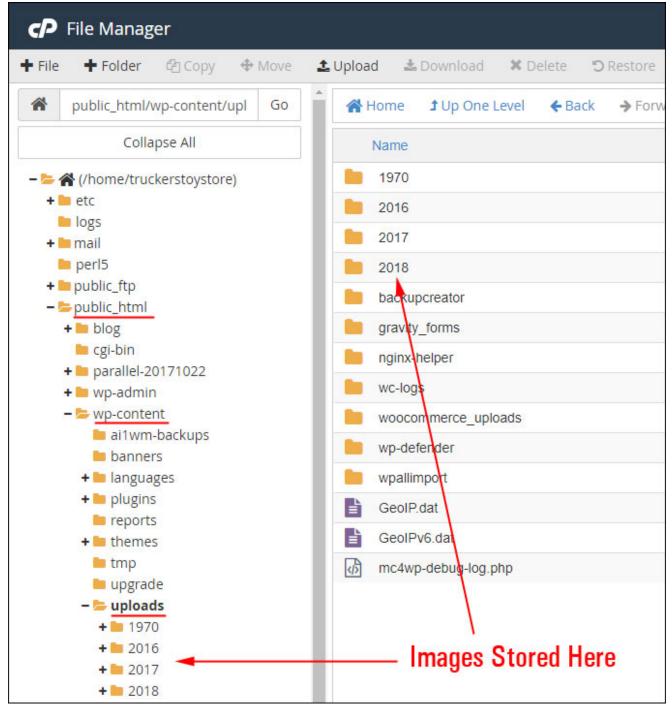
Here you can specify maximum image sizes and whether to store your media uploads into month and year-based folders.

🔞 🖌 My WordPress Si	te 🛡 0 🕂 New		
🚳 Dashboard	Media Settings		
🖈 Posts	Image sizes		
9 Media	The sizes listed below determine the	e maximum dimensions in	pixels to use when adding an image to the Media Library.
📕 Pages			
Comments	Thumbnail size	Width	150
🔊 Appearance		Height	150
🖌 Plugins		🗹 Crop thumbnail t	o exact dimensions (normally thumbnails are proportional)
👗 Users	Medium size	Max Width	300
🖋 Tools			
↓ † Settings		Max Height	300
General			
Writing	Large size	Max Width	1024
Reading		Max Height	1024
Discussion Media			
Permalinks	Uploading Files		
Privacy			
Collapse menu	 Organize my uploads into mo 	onth- and year-based fo	Iders
	Save Changes		

WordPress Media Settings screen.

When you add media files to your site via the Media Library, these are then uploaded to your server and stored in a directory called the wp-content > uploads folder.

Note: To access and view the contents of folders on your server requires using applications like **<u>FTP</u>** or a File Manager tool provided by your web host (e.g. **<u>cPanel's File Manager</u>**).



Media Library files are stored on your server.

Uploading loads of large images and other media files to your Media Library will cause your server's disk storage to swell up in size.

	ace with the Disk Usage fe	ature. All presented figures are relative to		
see usage data for individual files an Location	d the MySQL feature to s Size (MB)	ee data for individual databases. For more Disk Usage	e information, read our document	ation.
Files in home directory.	0.09 MB			
Files in hidden subdirectories.	2.27 MB			
etc/	0.01 MB			
logs/	75.74 MB	1		
perl5/	0.00 MB			
public_ftp/	0.00 MB			
public_html/	2,553.57 MB			
ssl/	0.05 MB			
tmp/	7.95 MB			
MySQL	218.38 MB			
Mailing Lists	0.00 MB			
Email Archives	0.00 MB	* Contained in the mail directory.		
	0.02 MB			

Storing large media files in your server can cause problems.

Storing large media files in your server can lead to problems like backing up files and slow down your website's performance and web page loading speed.

Hence, the reason why we recommend uploading large media files to a cloud storage service or a platform like YouTube (for videos) and embedding links to these files into your content using the **Add Media tool**.

Before we look at ways to reduce image file size, let's go over some image file basics.

Image Specifications & Guidelines

To avoid problems, we recommend spelling out some basic specifications and guidelines for using images on your website and making sure that everyone in your team understands things like:

- The difference between *image size* vs *image resolution*.
- Different *image formats* and when to use these.
- Different image specifications and settings for use in *digital content vs print*.

Let's go briefly through each of the above.

Image Size vs Image Resolution

Image size refers to the dimensions of an image and is usually expressed in terms of *pixels* or *points*.

Image resolution refers to the number of pixels that can fit inside a specific area of a screen or printed surface and is normally expressed in terms of *pixels per inch* (ppi) or *dots per inch* (dpi).

For example, the dimensions of the image below are 680 pixels wide x 400 pixels tall...

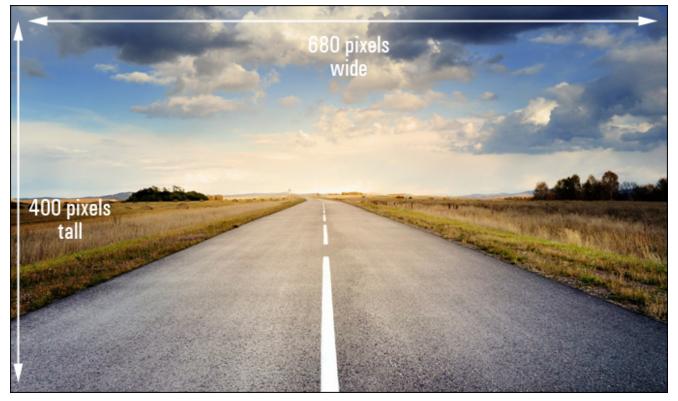


Image dimensions.

Using an image editing tool like **<u>Photoshop</u>**, we can see that the resolution of this image is 72 pixels per inch.

	680 pixels wide	
400 pixels		
tall	Image Size Pixel Dimensions: 796.9K Width: 680 pixels Height: 400 pixels Auto Document Size: Width: 680 points Height: 400 points Image Size Scale Styles Constrain Proportions Resample Image: Bicubic	

Image resolution.

Most images, photos, screenshots, logos intended for use in web content are only going to be viewed on computer and mobile device screens, which display low-resolution images (72-96 dpi) very well.

Images for printed publications (e.g. magazines, brochures, etc.) need to be output at a much higher resolution (e.g. 300 dpi).

Errors using images occur when confusing image size with image resolution. A large image with a low resolution will not work for print (images will become pixelated) and uploading high-resolution images to your website will increase the size of your server's database unnecessarily.

Image Format

Common formats used for saving images for use in websites include .jpg, .png, .gif, and newer formats like <u>WebP</u>.

For practical purposes and simplicity's sake, here's a good commercial rule of thumb to follow when deciding on which image format to use:

- Save images like photos as *.jpg* unless your images need to have a transparent background.
- Save non-photographic images like logos, graphics, and banners as .png.
- If your image needs to have a transparent background, save it as a *.png* and turn on the transparency option.
- Animated images (e.g. advertising banners) are normally saved as a .gif (or .webp)

You can learn more about different image formats here.

Digital Image Specs

If you plan to upload many images to your Media Library (e.g. product images for a large eCommerce site), then follow the specs below to ensure that your server's disk space won't become excessively large and difficult to manage:

- Image File Size: Aim for image file sizes no larger than around 500 kb.
- Image Resolution: 72-96 ppi.
- **Image Dimensions**: Try keeping your maximum image width to 900 1280 pixels. Typically, a width of 600-800 pixels is sufficient for most product images and screenshots.
- **Image Format**: *.jpg* (maximum quality) unless image requires a transparent background. If the image requires a transparent background, then save it as *.png* with the transparency option turned on.
- Image Mode: RGB

Print & Display Advertising Image Specs

High-quality printing or display advertising (e.g. magazines) typically require high-resolution images (e.g. 300 dpi) saved in *CMYK* image mode.



 If creating images for logos or company artwork, create these as high-resolution images in large sizes (e.g. 5,000 pixels wide), as these images will probably be used in print and make sure to reformat these images for use in digital artwork or web content using the digital image specs given earlier.

- Always work from larger to smaller dimensions and from higher to lower resolutions. Reducing image sizes and resolutions will retain image quality but not the other way round (i.e. going from smaller to larger image size or resolution will make the image appear blurred or pixelated).
- When creating images from scratch, set out the dimensions and resolution of your image before you start.

For example, you can set image size and resolution in Photoshop using the *Image > Image Size* dialog box.

🕙 🛛 Adobe Photoshop - [road-220058_1280.jpg @	100% (Layer 0, RGB/8#)]
Tile Edit Image Layer Select Filter	<u>View</u> <u>W</u> indow <u>H</u> elp
[]] - Mode	Style: Normal Width: Height:
	▶ <u> </u>
Duplicate Apply Image Calculations	Image Size X
Image Size AltCirit Canvas Size AltCirit Pixel Aspect Ratio AltCirit Rotate Canvas Crop Trim Reveal All Variables Variables	
Variables Apply Data Set Trap	Width: 9.444 inches ✓ Height: 5.556 inches ✓ Resolution: 72 pixels/inch ✓ ✓ Scale Styles
	Constrain Proportions Resample Image: Bicubic

Photoshop – Image Size.

How To Reduce Image File Size

Before making any changes to images that have already been uploaded to your website and are currently being used in your content, do the following:

1. Back up your website.

 Download folders containing images stored on your server to your hard drive. For example, if your images are stored on a server that uses <u>CPanel</u>, use an application like File Manager to compress and download a copy of the image folders to your hard drive, or use an <u>FTP</u> tool.

- 3. Extract and make a copy of these image folders. You will edit the images in the copied folders to make sure that nothing happens to the original files.
- 4. Create a folder inside your working images folder where you will edit and save images (call the folder something like "reduce these").
- 5. Select all large images above a certain file size (e.g. 500 kb) and copy these to your editing folder.
- 6. Work systematically through your files. Open and edit your images in an image editing application like Photoshop.
- 7. Save the edited image to the image editing folder containing all resized images.
- 8. Again, begin to systematically replace large file-sized images on your website with the smaller file-sized images you have just created.
- 9. After replacing all images on your website, review all pages to make sure that all images have been replaced correctly.
- 10. Delete the large images from your server. If you followed the above process, you should have a backup copy of the originals.
- 11. Go back to your website and check pages and content to make sure that no images are missing in your content.
- 12. Your files should now be significantly reduced in size.

If you can't view image file sizes in your hard drive's image folder, do the following:

Open the folder in your hard drive that contains your images, then right-click inside the folder and select *View > Details*.

CS90328-Pe te-Style-To ol-Box-Truc kers-Toy	ve al Sr	CS70203-SS -Tank-Skirt -1220mm-S ingle-Tru	Novelty	CE20-Bum per-SS-22-i nch-Box-En d-Trucker	Universal	CS20358-Gr ill-Bar-KW- Truckers-To y-Store-9	Safety	wheel-trim s-949x1024	228481A-LE D-SQ-1-Stu d-2-Face12 V-Amber		dash	-Elephant-E	w-On-Poin	6401-Sticke r-medium- Bulldog-W hite-Truc	Wicked	exterior-tri ms-1	CS80503-SS -WS-Exhau st-Shroud- Plain-Rig	CS90315-VI SOR-Headli ght-7-inch- Truckers	MP005-S- MARKER-R -A-1600X10 0-Sticker
CS30300-SS -Powerstar- Under-Doo r-Panel-D	rPowerstar-	Rear-Bars	-Wing-Ext- Argosy-Pair	SS-WING-E XT-ARGOS Y-PAIR-Tru ckers-Toy		CS20358-Gr ill-Bar-KW- Truckers-To y-Store-7				Wicked-102 4:975	wheel-trim s-768x828	CS70203-SS -Tank-Skirt +1220mm-S ingle-Tru	dash-1024x 1024	exterior-tri ms-1024x76 8	22805.2-LE D-Work-La mp-Trucker s-Toy-Sto	Mirror-Ligh ts-789x1024	14070-Brac ket-for-140 66-Undersl ung-Bar	SWC003.1- Steering-W heel-Cover -Gray-Eag	5146-mirror -2-inch-stic k-on-chro me-Truck
Rear-Bars-1 024x686 ts-768x997	12V-Wedge -Multi-Dire	CS80353-SS -Kick-Panel -WS-Left-U nder-Cab		-Multi-Dire	3514-STICK ER-TRAILER -Truckers-T oy-Store	-Light-Red- Truckers-To	exterior-tri ms-1-1024x 1024	CS10401-SS -BUG-DEF+ CORONAD O-Trucke	CS80326-SS -Headlight- Under-Pan els-490-2	Universal-1 024x947	CS20358-Gr ill-Bar-KW- Truckers-To y-Store-1	-Up-Right-	7226G-LED- 12V-Wedge -Multi-Dire ctional-Gr		d-2-Face12	ent-for-600	SWC003.1- Steering-W heel-Cover -Gray-Eag_	CS80327-SS -Elephant-E ars-4900480 0-PR-Truc	11140-Nut- Cover-Scre w-On-Poin ted-Truck
Western-St ar c-1-971x10 24	Pi CS80327-SS -Elephant-E ars-4900480 0-PR-Truc	L-1-SS-Rear -Underslun	Dash (2)	Mack	CS20601R-S S-WING-EX T-1770MM -R-18-LE	CS20602R-S S-WING-EX T-1980mm -R-18-LE	CS80404-SS -WS-Louv- Grill-4800-4 900-Truck	31379-LED- Angel-Eye- 7-inch-hea dlight-Cle	Mack-1024 x939	4482G-AC- VENT-Ken worth-401- 600-650-9	4482C-AC- VENT-Ken worth-401- 600-650-9	k-on-chro	CS30902-SS -Sun-Visor- Powerstar- Stralis-6-li	r-Truckers-	MP005-S- MARXER-R -A-1600010 0-Sticker	-WING-EXT -1770MM-	CS20351-SS -KW-Daylig ht-Door-Tri m-Dimpl		14066-13W L-1-SS-Rear -Underslun g-Light-8
KW-Cabov er-1024x427 er-1102x44		-140x100m m-stickon-		Peterbilt-10 24x904	r-Argosy-Tr	Cover-Scre	CS90315-VI SOR-Headli ght-7-inch- Truckers	11140-Nut- Cover-Scre w-On-Poin ted-Truck	wheel-trim s	CS80327-SS -Elephant-E ars-4900480 0-PR-Truc	ment-1-102	CE20-Bum per-SS-22-i nch-Box-En d-Trucker		Peterbilt	50506A-6-i nch-Air-Ra m-Truckers -Toy-Stor	14066-13W L-2-SS-Rear -Underslun g-Light-8	CS20308-SS -Head-Ligh t-Backing-S hort-904	6401-Sticke r-medium- Bulldog-W hite-Truc	4344-G-Pla stic-swivel- map-light- Gold-Tru
Sont By Group by Refresh Customize this fo	older	> Larg > • Med	e icons lium icons Il icons	\$	4344-Plasti c-swivel-m ap-light-Ch rome-Tru	CS10401-SS -BUG-DEF- CORONAD O-Trucke	CS10401-SS -BUG-DEF- CORONAD O-Trucke	at-33mm-L	MP005-S- MARKER-R -A-1600X10 0-Sticker	exterior-tri ms-768x576	CS20201-SS -Tank-Skirt -J-Bracket- 1440mm	dash-1100x 400	Rear+Bars+1 +1024x427	Rear-Bars-2 -1024x427	47215-Nut- Cvr-Top-H at-33mm-L ong-Poin	-Powerstar- Under-Slee	CS30300-SS -Powerstar- Under-Doo r-Panel-D	Rear-Bars-1 -1100x400	Rear-Bars-2 -1100x400
Paste Paste shortcut Undo Rename Share with	Ctrl+Z	Hide			8088-M-Shi ft-Boot-Styl e-23-inch- Maroon	Led-lights	CS30302-SS -Powerstar- Under-Win g-Panel	wheel-trim s-1100x400	Monster-M arkers-1	MP005-S- MARKER-R -A-1600X10 0-Sticker	CS30902-SS -Sun-Visor- Powerstar- Stralis-6-li	esterior-tri ms-1-1100x 400	CS40300-SS -PRE-CLEA NER-CVR- MACK-PA	CS2G000-K NOB-AC-K W-Gold-Tr uckers-T			CS10600-SS -Wing-Ext- Argosy-Pair -Truckers	XT-ARGOS Y-PAIR-Tru	Kenworth-1 024x1004
TortoiseSVN New Properties		> 20402-SS ag-Defle	CS30301-SS -Powerstar- Under-Slee	CS30300-SS -Powerstar- Under-Doo		ER-Thumbs -Up-Left-Tr	ECTOR-WS	dash-768x7 68	Freightliner -1024x1024	-Kiwi-Bird- Cut-Outs-T	CS80338-SS -Headlight- Backing-49		wheel-trim s-600x647	11140-Nut- Cover-Scre w-On-Poin	SW45SC-St eering-Whe el-4-Spoke-	-A-1600X10		CS30300-SS -Powerstar- Under-Doo	CS30301-SS •Powerstar- Under-Slee
ers-Toy-S ingle-Tru.	-4800-490	del lanat	and Denal	- Denni D	Truckers	uckers-To	-4800-490				00-Short			ted-Truck	Straight-T	0-Sticker	m-Long	r-Panel-D	per-Panel

Select View – Details.

You should now be able to see all the image file sizes listed.

Name	Date modified	Туре	Size
CS90328-Pete-Style-Tool-Box-Truckers-Toy-Store	1/10/2018 11:06 AM	PNG File	3,624 KB
SWC003-Steering-Wheel-Cover-Gray-Eagle-18-inch-Truckers-Toy-Store	1/10/2018 11:05 AM	PNG File	3,160 KB
International	1/10/2018 11:06 AM	PNG File	2,833 KB
CS70203-SS-Tank-Skirt-1220mm-Single-Truckers-Toy-Store	1/10/2018 11:06 AM	PNG File	2,616 KB
Novelty	1/10/2018 11:06 AM	PNG File	2,112 KB
CE20-Bumper-SS-22-inch-Box-End-Truckers-Toy-Store-1024x1024	1/10/2018 11:06 AM	PNG File	2,008 KB
Universal	1/10/2018 11:06 AM	PNG File	2,006 KB
CS20358-Grill-Bar-KW-Truckers-Toy-Store-958x1024	1/10/2018 11:05 AM	PNG File	1,992 KB
Safety	1/10/2018 11:06 AM	PNG File	1,921 KB
wheel-trims-949x1024	1/10/2018 11:05 AM	PNG File	1,875 KB
228481A-LED-SQ-1-Stud-2-Face12V-Amber-Truckers-Toy-Store-1024x889	1/10/2018 11:05 AM	PNG File	1,807 KB
CS20344R-SS-Bonnet-Vent-for-600-Series-KW-RHS-Truckers-Toy-Store	1/10/2018 11:06 AM	PNG File	1,802 KB
🖬 dash	1/10/2018 11:05 AM	PNG File	1,760 KB
CS80327-SS-Elephant-Ears-49004800-PR-Truckers-Toy-Store-768x1303	1/10/2018 11:06 AM	PNG File	1,676 KB
11140-Nut-Cover-Screw-On-Pointed-Truckers-Toy-Store-1024x768	1/10/2018 11:06 AM	PNG File	1,598 KB
6401-Sticker-medium-Bulldog-White-Truckers-Toy-Store-1024x834	1/10/2018 11:05 AM	PNG File	1,576 KB
🖬 Wicked	1/10/2018 11:06 AM	PNG File	1,566 KB
exterior-trims-1	1/10/2018 11:05 AM	PNG File	1,543 KB
CS80503-SS-WS-Exhaust-Shroud-Plain-Right-Truckers-Toy-Store-600x1280	1/10/2018 11:05 AM	PNG File	1,510 KB
CS90315-VISOR-Headlight-7-inch-Truckers-Toy-Store-964x1024	1/10/2018 11:06 AM	PNG File	1,504 KB
MP005-S-MARKER-R-A-1600X100-Sticker-Class-1-Truckers-Toy-Store-1024x627	1/10/2018 11:06 AM	PNG File	1,412 KB
CS30300-SS-Powerstar-Under-Door-Panel-Day-Cab-Truckers-Toy-Store-1024x768	1/10/2018 11:05 AM	PNG File	1,351 KB
CS30301-SS-Powerstar-Under-Sleeper-Panel-Day-Cab-Truckers-Toy-Store-1024x768	1/10/2018 11:06 AM	PNG File	1,351 KB
CS30302-SS-Powerstar-Under-Wing-Panel-Day-Cab-Truckers-Toy-Store-1024x768	1/10/2018 11:05 AM	PNG File	1,346 KB
Rear-Bars	1/10/2018 11:05 AM	PNG File	1,336 KB
CS10600-SS-Wing-Ext-Argosy-Pair-Truckers-Toy-Store-768x1024	1/10/2018 11:05 AM	PNG File	1,319 KB
SS-WING-EXT-ARGOSY-PAIR-Truckers-Toy-Store-768x1024	1/10/2018 11:06 AM	PNG File	1,319 KB
CS80353-SS-Kick-Panel-WS-Left-Under-Cab-Truckers-Toy-Store	1/10/2018 11:05 AM	PNG File	1,297 KB
CS20358-Grill-Bar-KW-Truckers-Toy-Store-768x821	1/10/2018 11:05 AM	PNG File	1,280 KB
894LA-Side-Multivolt-Amber-Freightliner-SunVisor-Light-Truckers-Toy-Store-1024	1/10/2018 11:05 AM	PNG File	1,275 KB
CS90311-Spot-Light-Cover-Truckers-Toy-Store-1024x812	1/10/2018 11:05 AM	PNG File	1,275 KB
CE20-Bumper-SS-22-inch-Box-End-Truckers-Toy-Store	1/10/2018 11:05 AM	PNG File	1,264 KB
Wicked-1024x975	1/10/2018 11:05 AM	PNG File	1,260 KB

List of images displaying image file sizes.

The next step is to start reducing each image file to a smaller size.

Name	Date modified	Туре	Size
CS90328-Pete-Style-Tool-Box-Truckers-Toy-Store	1/10/2018 11:06 AM	PNG File	3,624 KB
SWC003-Steering-Wheel-Cover-Gray-Eagle-18-inch-Truckers-Toy-Store	1/10/2018 11:05 AM	PNG File	3,160 KB
International	1/10/2018 11:06 AM	PNG File	2,833 KB
CS70203-SS-Tank-Skirt-1220mm-Single-Truckers-Toy-Store	1/10/2018 11:06 AM	PNG File	2,616 KB
Novelty	1/10/2018 11:06 AM	PNG File	2,112 KB

Reduce each image file to a smaller size.

Let's look now at ways to reduce image file sizes.

Save Files As .Jpg

Images saved in *.jpg* format normally result in smaller file sizes than the same image saved in *.png* format.

For example, if we save this example image as a .png...

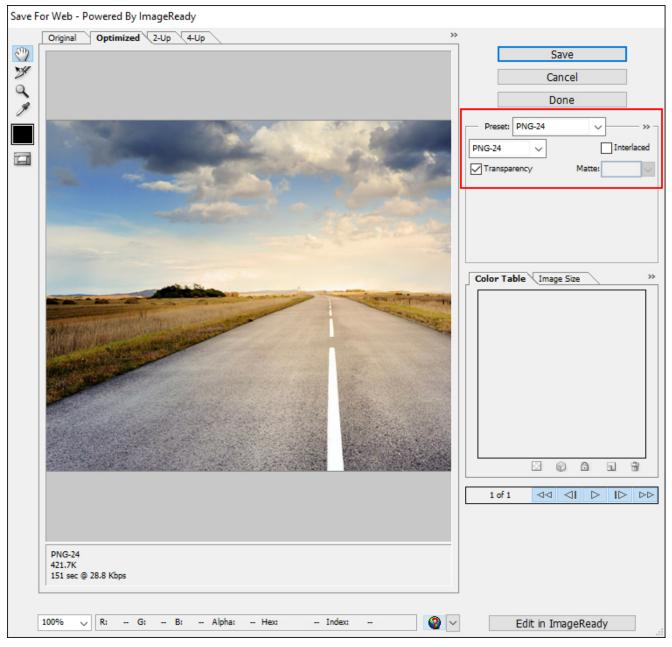


Image saved as .png

And then save the same image as a .jpg (maximum quality) ...

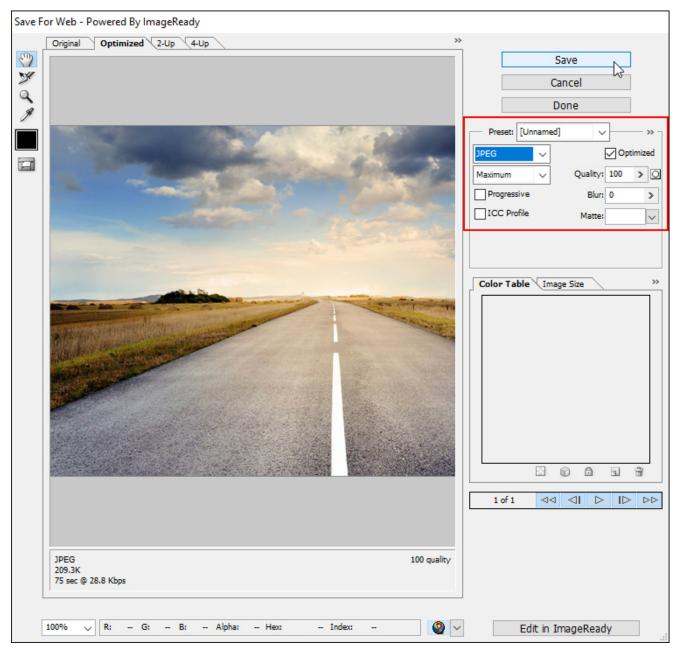


Image saved as .jpg

You can see that even though they are both the same image, the *.png* file has a larger file size than the *.jpg* image.

Name	Date	Туре	Size
🖻 image-680x400	1/12/2018 3:57 PM	JPG File	210 KB
🖬 image-680x400	1/12/2018 3:55 PM	PNG File	422 KB

This .png image is larger than the same image saved as a .jpg

Keeping this in mind, here's something you can do if you have unnecessarily saved lots of image files on your website as *.png* instead of *.jpg*.

Locate and open a large .png file from your working images folder using your image editor (e.g. Photoshop).

Look in:	aaa-reduce	- · · · · · · · · · · · · · · · · · · ·	Data	Tree	Con X
+	Name		Date	Туре	Size
ick access		Pete-Style-Tool-Box-Truckers-Toy-Store	4/4/2016 10:59 PM	PNG File	3,624 KB
nen occess		iteering-Wheel-Cover-Gray-Eagle-18-inch-Truckers-Toy-Store	12/2/2017 7:34 AM	PNG File	3,160 KB
	Internation		4/4/2016 10:59 PM	PNG File	2,833 KB
Desktop		SS-Tank-Skirt-1220mm-Single-Truckers-Toy-Store	4/4/2016 11:00 PM	PNG File	2,616 KB
Jesktop	Novelty		12/2/2017 7:10 AM	PNG File	2,112 KB
<u> </u>		nper-SS-22-inch-Box-End-Truckers-Toy-Store-1024x1024	5/5/2017 5:04 AM	PNG File	2,008 KB
•	Universal		4/4/2016 10:57 PM	PNG File	2,006 KB
ibraries		Grill-Bar-KW-Truckers-Toy-Store-958x1024	5/5/2017 5:01 AM	PNG File	1,992 KB
	Safety		4/4/2016 10:57 PM	PNG File	1,921 KB
~~	wheel-trin		5/5/2017 4:50 AM	PNG File	1,875 KB
This PC		ED-SQ-1-Stud-2-Face12V-Amber-Truckers-Toy-Store-1024x889	5/5/2017 5:05 AM	PNG File	1,807 KB
a		-SS-Bonnet-Vent-for-600-Series-KW-RHS-Truckers-Toy-Store	4/4/2016 11:02 PM	PNG File	1,802 KB
?	🖬 dash		4/4/2016 10:55 PM	PNG File	1,760 KB
letwork		S-Elephant-Ears-49004800-PR-Truckers-Toy-Store-768x1303	5/5/2017 4:59 AM	PNG File	1,676 KB
		t-Cover-Screw-On-Pointed-Truckers-Toy-Store-1024x768	5/5/2017 5:11 AM	PNG File	1,598 KB
		er-medium-Bulldog-White-Truckers-Toy-Store-1024x834	5/5/2017 5:13 AM	PNG File	1,576 KB
	Wicked		4/4/2016 10:55 PM	PNG File	1,566 KB
	exterior-tri		4/4/2016 10:55 PM	PNG File	1,543 KB
		SS-WS-Exhaust-Shroud-Plain-Right-Truckers-Toy-Store-600x1280	5/5/2017 4:58 AM	PNG File	1,510 KB
		/ISOR-Headlight-7-inch-Truckers-Toy-Store-964x1024	5/5/2017 4:57 AM	PNG File	1,504 KB
		MARKER-R-A-1600X100-Sticker-Class-1-Truckers-Toy-Store-1024	5/5/2017 4:56 AM	PNG File	1,412 KB
	S30300-S	S-Powerstar-Under-Door-Panel-Day-Cab-Truckers-Toy-Store-10	5/5/2017 5:00 AM	PNG File	1,351 KB
	<				>
	File name:	SWC003-Steering-Wheel-Cover-Gray-Eagle-18-inch-Truckers-Toy-Store	e		 Open
	Files of type:	All Formats		10 m	Cancel
	Files of type:	All Formats			~

Open a large .png file

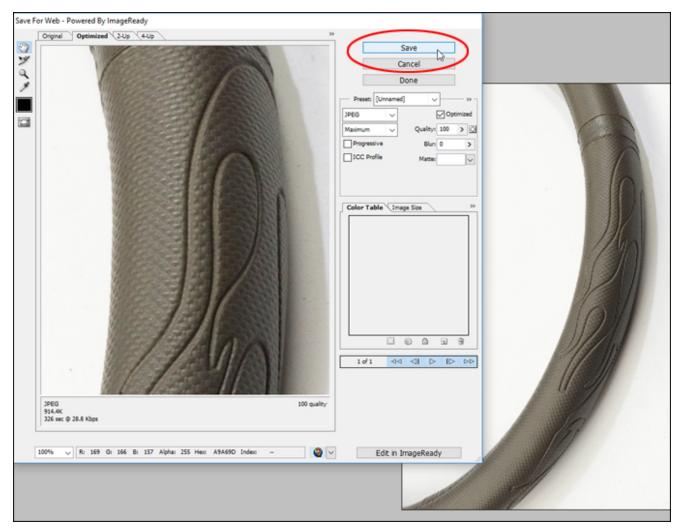
For this example, we have selected an image that is over 3 Mb in size (3,160 kb). If we apply the image specifications from our earlier section to this image, we can see that:

- 1. The file doesn't need to have a transparent background. It can be resaved as a .jpg image.
- 2. The image dimensions are much larger than necessary.

Large Image Dimensions	
Image Size	
Pixel Dimensions: 9.00M Width: 1536 pixels ~ OK Height: 2048 pixels ~ Image: Cancel	
Document Size: Midth: 1536 points] Height: 2048 points]	
Resolution: 72 pixels/inch ~	
Scale Styles Constrain Proportions	
Resample Image: Bicubic	
	Background Not Transparent

We can reduce the file size of this image.

Let's save this file as a .jpg image first and see how much we can reduce the image file size.



Save the file as a .jpg

By changing the file format from .png to .jpg, we have significantly reduced the image file size (from 3,160 kb to 915 kb).

Name	Date	Туре	Size
SWC003-Steering-Wheel-Cover	1/12/2018	JPG File	915 KB
SWC003-Steering-Wheel-Cover	1/10/2018	PNG File	3,160 KB

Same image, different image file sizes.

This reduced image, however, is still almost twice as large as the file size specifications we have set for our images (no larger than 500 kb).

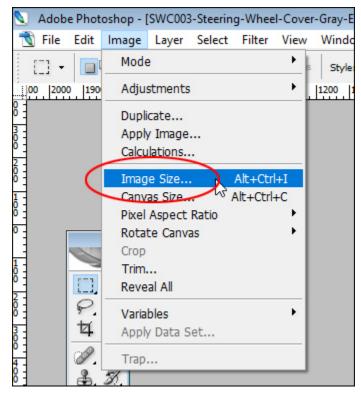
Now we have two options. We can reduce the image file size by:

- Reducing file size dimensions
- Reducing image quality

Reduce File Size Dimensions

Let's repeat the above process, but this time, we'll reduce file size dimensions before saving the image as a .jpg.

First, select the image and open the 'Image Size' dialog box (Image > Image Size in Photoshop).



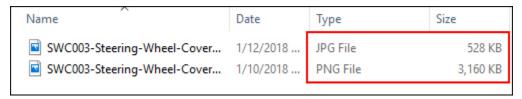
Photoshop: Image > Image Size

Change the image dimensions to reduce the image size and make it fit within your specifications.

Image Size X	
Pixel Dimensions: 4.62M (was 9.00M)	
Width: 1100 pixels ~ - B Cancel	
Height: 1467 pixels ~ - Auto	
Document Size:	
Width: 1100 points ~ -	
Height: 1466.7 points V	10
Resolution: 72 pixels/inch ~	
Scale Styles Constrain Proportions	
Resample Image: Bicubic ~	1740
	101

Reduce image dimensions.

Now resave the image as a .jpg and look at the resulting file size.



The same image has been significantly reduced in size.

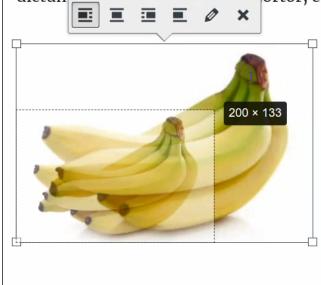
We have significantly reduced the file size of this image.



Resizing image dimensions in your web pages will not reduce the file size of the original image on your server.

To reduce the file size of images stored on your server, you will need to change the dimensions of the original image, then replace the original image in your server with your newly edited image.

Vivamus et lacus ac ipsum bibendum ullamcorper. In hac habitasse platea dictum<u>et Appear a maleguada t</u>ortor, eu ornare ante.



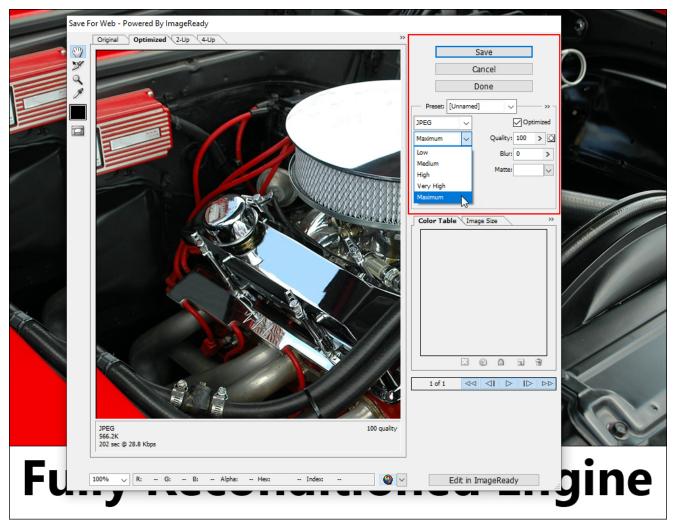
Aliquam vehicula massa sit amet dolor tincidunt sollicitudin. Nullam volutpat elit eu nulla tempor malesuada.

Aenean feugiat cursus mauris, vel lobortis purus volutpat finibus. Nunc lacinia et dolor a tempor. Proin vestibulum lorem a quam

Resizing images on your page does not reduce the image file's size on your server.

Reduce Image Quality

Depending on what you plan to use images for, reducing image quality by a level or two won't make that much difference to the final result and can help improve the loading performance of your page.



JPEG image quality settings.

For example, below is a .jpg image saved using maximum quality image optimization settings (100%).



JPEG settings – Maximum Quality 100%

Here's the same .jpg image saved using the next level down (Very High).



JPEG settings - Very High Quality 80%

Here's the same .jpg image saved using the next level down (High).



JPEG settings – High Quality 60%

Here's the same .jpg image saved using the next level down (Medium).



JPEG settings – Medium Quality 30%

Here's the same .jpg image saved using the next level down (Low).



JPEG settings – Low Quality 10%

Although there's not that much of a noticeable visible difference in the images, the difference in file sizes can be significant.

Name	Туре	Size			
Engine-01.jpg	JPG File	604 KB	— 100%	1	
Engine-02.jpg	JPG File	326 KB	4 80%		
Engine-03.jpg	JPG File	204 KB	 60%	JPG Quality	
Engine-04.jpg	JPG File	112 KB	 30%		
🔳 Engine-05.jpg	JPG File	74 KB	— 10%		
				—	

Same image, different JPEG quality settings.

In addition to the above, you can also use the methods below to reduce the image file size.

Crop Unnecessary Image Areas

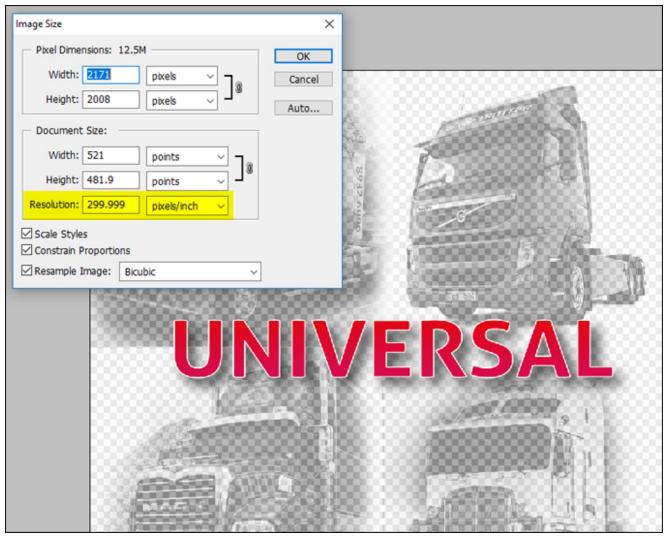
If there are any excess areas around an image that are not required or essential, consider cropping the image to reduce image file size.



Crop excess areas around images to reduce file size.

Check Image Resolution

Check to see if any large images uploaded to your website have been saved using a high image resolution and change the settings to reduce image file size.



Images for use in web content don't need to have high resolutions like images for use in print.

As you can see, using some or all of the above methods can significantly reduce the file size of your stored images.

Name	Date	Туре	Size
Universal-300ppi	1/12/2018	PNG File	2,006 KB
🖬 Universal-300ppi	1/12/2018		1,541 KB
🖬 Universal-72ppi	1/12/2018		288 KB
Universal-72ppi	1/12/2018	JPG File	137 KB

Reducing image file sizes can improve your website's page loading speed significantly.

Reduce Image Bloat And Reclaim Server Storage Space

When you upload images to your site via the Media Library, WordPress automatically creates new versions of these images in different sizes by default (e.g. Thumbnail, Medium, Large, and Full Size).

		ATTACHMENT D	None
		Link To Size	None ✓ Medium – 300 × 199 ✓ Thumbnail – 150 × 150 Medium – 300 × 199
	Image Sizes		Large – 750 × 499 Full Size – 1920 × 1276

By default, WordPress creates several image sizes for every image uploaded to your Media Library.

This adds more image files to your server. Over time, these accumulated image files can take up valuable storage space on your server.

Name	Size	Kind
car-engine-1548434_1920-150x150.jpg	8 KB	JPEG image
car-engine-1548434_1920-300x199.jpg	18 KB	JPEG image
Car-engine-1548434_1920-768x510.jpg	84 KB	JPEG image
E car-engine-1548434_1920-1024x681.jpg	137 KB	JPEG image
E car-engine-1548434_1920-1536x1021.jpg	270 KB	JPEG image
E car-engine-1548434_1920-1568x1042.jpg	281 KB	JPEG image
E car-engine-1548434_1920.jpg	671 KB	JPEG image

All these files were created from one uploaded image and placed on your server.

Unless you need to have different-sized files for every uploaded image stored on your server, it's better to delete these unused files or upload only one version of the image to your server.



To prevent WordPress from creating different versions of every uploaded image, do the following:

Go to your **Media Settings** (*Dashboard Menu > Media > Settings*)

1	My WordPress Site	e 🛡 0 🕂 New		
2 2	Dashboard	Media Settings		
*	Posts	Image sizes		
91	Media	The sizes listed below determine the	maximum dimensions in	pixels to use when adding an image to the Media Library.
	Pages			
•	Comments	Thumbnail size	Width	150
~	Appearance		Height	150
*	Plugins		Crop thumbnail to	o exact dimensions (normally thumbnails are proportional)
4	Users	Medium size	Max Width	300
ø	Tools			
4t	Settings		Max Height	300
Gei	neral			
Wr	iting	Large size	Max Width	1024
	ading		Max Height	1024
-	cussion			
	edia	Uploading Files		
	vacy			
0	Collapse menu	✓ Organize my uploads into more	nth- and year-based fol	lders
		Save Changes		

Media Settings screen.

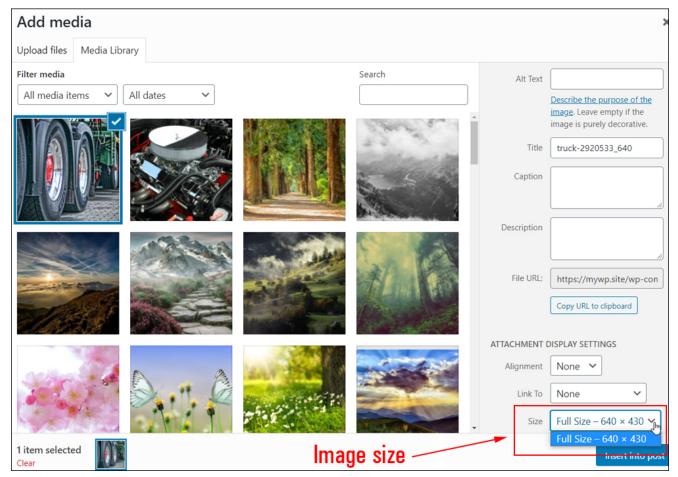
Change all the values in the **Image Sizes** section to "0" (zero) and save your changes.

Media Settings		
Image sizes		
The sizes listed below determine the	e maximum dimensions in	pixels to use when adding an image to the Media Library.
Thumbnail size	Width	0
	Height	0
	✓ Crop thumbnail to	o exact dimensions (normally thumbnails are proportional)
Medium size	Max Width	• Change these
	Max Height	• values to "O"
Large size	Max Width	0
	Max Height	0
Uploading Files		
✓ Organize my uploads into mo	onth- and year-based fo	lders
Save Changes		

Change all image sizes to zero.

Now, when you upload images to WordPress via the Media Library, only the original uploaded version of the image will be added to your server.

Note: Make sure you upload the correct-sized image you plan to use in your content.



Only the original image file will be uploaded to your server.

If you check the image folder on your server, you will see that only the uploaded image was added...no other versions!

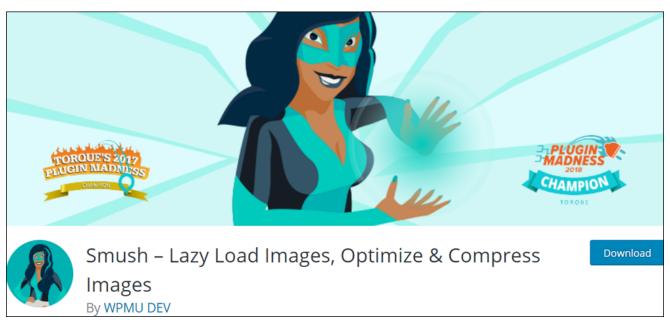
Name	Size	Kind
sunset-3325080_1920-150x150.jpg	6 KB	JPEG image
sunset-3325080_1920-300x137.jpg	11 KB	JPEG image
sunset-3325080_1920-768x351.jpg	56 KB	JPEG image
sunset-3325080_1920-1024x468.jpg	94 KB	JPEG image
sunset-3325080_1920-1536x702.jpg	197 KB	JPEG image
sunset-3325080_1920-1568x717.jpg	206 KB	JPEG image
sunset-3325080_1920.jpg	382 KB	JPEG image
tree-276014_1920-150x150.jpg	7 KB	JPEG image
E tree-276014_1920-300x191.jpg	16 KB	JPEG image
E tree-276014_1920-768x488.jpg	83 KB	JPEG image
tree-276014_1920-1024x651.jpg	139 KB	JPEG image
tree-276014_1920-1536x977.jpg	285 KB	JPEG image
E tree-276014_1920-1568x997.jpg	296 KB	JPEG image
E tree-276014_1920.jpg	519 KB	JPEG image
🖻 truck-2920533_640.jpg	84 KB	JPEG image

Only the original image was uploaded to your server after changing your Media settings.

Image & Media Library Optimization Plugins

Whether you choose to store different-sized images on your server or clean up any unused media files, plugins can help.

So, in addition to the methods described above to reduce image file sizes, if you plan to upload loads of images to your site using the WordPress media library, we recommend looking at image optimization and media cleanup plugins like the ones below.



WP Smush

WP Smush Image Compression and Optimization plugin for WordPress.

WP Smush scans images that you upload (or have already added) to your site and automatically resizes, optimizes, and compresses these, removing unnecessary data before adding it to your media library.

This plugin strips hidden bulky information from your images and reduces file size without losing image quality.

DASHBOARD			C RE-CHECK IMAGES	DOCUMENTATION
	01.0		Image Resize Savings	274.3 KB
	91.2 _{MB / 67.8%} Total Savings 3871 1 Images Smushed Images Resized	67.8%	Directory Smush Savings	Choose directory
		-	Super-Smush Savings	90.9 MB
		Images Resized	CDN	 Active
Bulk Smush	Bulk Smush		Smush individual image	s via your Media Library
Directory Smush Integrations	Bulk smush detects images that can be optimized and allows you to compress them in bulk.			
Lazy Load 🛛 🖸	All attachments have	been smushed. Awesome!		

WP Smush automatically optimizes images uploaded to WordPress.

For more information about this plugin, go here: **Smush**

Media Cleaner



Media Cleaner – Clean & Optimize Space.

<u>Media Cleaner</u> cleans your WordPress Media Library of all unused or broken media entries and files that aren't being used in your website. you can also restrict the scan to images only.

Media Cleaner analyzes and detects any files not being used on your site and places them into the plugin's internal trash. After testing to make sure that the plugin has not marked any files for deletion that you want to keep, you can restore the files from the trash, or permanently delete them.

	Scan Media	Library	v		Delete All
There a	re 34 issues with y	our files, accour	nting for 50.72 MB. Your trash contains 0.00 MB.		
Issues	(34) Ignored (0)	Trash (0)		34 results 🔍 🔇	Page 1 of 4 🔊 📎
	Thumb Origin		Title & Path \vee	lssue 🗸 🗸	Size 🔨
	ID 929		avenue-2215317 2021/02/avenue-2215317-scaled.jpg (+ 9 files)	Seems not in use	15649.41 KB
	ID 10		cat-1152809 2020/10/cat-1152809-scaled.jpg (+ 9 files)	Seems not in use	4046.22 KB
	ID 917		road-1072821_1920 2021/02/road-1072821_1920.jpg (+ 7 files)	Seems not in use	3042.80 KB
	ID 918		road-1072823_1920 2021/02/road-1072823_1920.jpg (+ 7 files)	Seems not in use	2484.13 KB
	ID 291		dog-280332_1920 2020/12/dog-280332_1920.jpg (+ 7 files)	Seems not in use	1759.27 KB
	ID 926		mountain-landscape-2031539_1920 2021/02/mountain-landscape-2031539_1920.jpg (+ 7 files)	Seems not in use	1664.78 KB
	ID 931		car-engine-1548434_1920 2021/02/car-engine-1548434_1920.jpg (+ 7 files)	Seems not in use	1504.43 KB
	ID 914		mountains-1761292_1920 2021/02/mountains-1761292_1920.jpg (+ 7 files)	Seems not in use	1408.41 KB
	ID 921		tree-276014_1920 2021/02/tree-276014_1920.jpg (+ 7 files)	Seems not in use	1377.08 KB
	ID 924		forest-931706_1920 2021/02/forest-931706_1920.jpg (+ 7 files)	Seems not in use	1292.93 KB
	Thumb Origin	~	Title & Path V	Issue 🗸	Size 🔨

Use Media Cleaner to delete any unused images from your server.

Note: Make sure you have a full backup of your site before using this plugin.

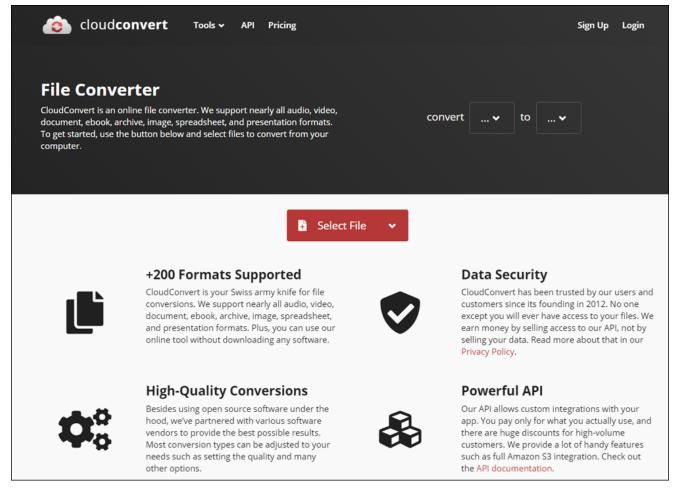
For more information about this plugin, go here: Media Cleaner

Additional Resources – Media File Conversion Tools

There are several online tools you can use to convert media files from one format to another (e.g., convert a *.png* file into a *.jpg*, or a *.gif* image into a *.mp4* or .webm file).

Here are a couple of free online tools you can check out:

CloudConvert.com



CloudConvert.com

<u>**CloudConvert**</u> is a free online file converter. It supports +200 file formats and provides highquality file conversions. Use this tool to convert images, videos, audios, documents, etc. from one format into another.

Go here to access this tool: CloudConvert

GifGifs.com

GIFGIFS Free animated GIFs, free GIF ani		SUPPORTUS :-)	🤠 t <	<mark>⊯≣ English</mark>	Español
Tools	<u>GIF tools</u> /				
GIF resizer	Resize a GIF online				
GIF optimizer GIF crop GIF reverser Rotate GIF Add text to GIF JPEG optimizer PNG optimizer Split GIF	UPLOAD GIF OR PASTE IMAGE URL		<u>%</u>	x	px

GifGifs.com

<u>GifGifs.com</u> is a great free online tool that lets you edit *.gif* images in many ways, such as resizing, cropping, rotating, adding text to images, etc.

Go here to access this tool: GifGifs.com

Congratulations! Now you know how to reduce image file sizes to help improve your page loading speed.

		•	<u>ن</u>	р ж
🖺 Places	Name	Permissions	Modified Size	Kind I
▼ → Production	avenue-2215317.jpg	read and write	Feb 05, 2021 03:27 PM 11.04 ME	3 JPEG image
• 🔁 Files	avenue-2215317-scaled.jpg	read and write	Feb 05, 2021 03:27 PM 1.48 ME	3 JPEG image
▶ 🔜 wp-admin	road-1072821_1920.jpg	read and write	Feb 05, 2021 08:12 AM 1.18 MB	3 JPEG image
wp-content	road-1072823_1920.jpg	read and write	Feb 05, 2021 08:13 AM 986 KE	3 JPEG image
multiple	avenue-2215317-2048x1365.jpg	read and write	Feb 05, 2021 03:27 PM 971 KE	3 JPEG image
Logs	car-engine-1548434_1920.jpg	read and write	Today 10:37 AM 671 KE	3 JPEG image
Y	road-1072821_1920-1568x1045.jpg	read and write	Feb 05, 2021 08:12 AM 669 KE	3 JPEG image
	mountain-landscape-2031539_1920.jpg	read and write	Feb 05, 2021 08:13 AM 666 KE	3 JPEG image
	road-1072821_1920-1536x1024.jpg	read and write	Feb 05, 2021 08:12 AM 636 KE	3 JPEG image
	dolomites-3670076_1920.jpg	read and write	Feb 05, 2021 03:16 PM 588 KE	3 JPEG image
	mountains-1761292_1920.jpg	read and write	Feb 05, 2021 08:12 AM 562 KE	3 JPEG image
	avenue-2215317-1568x1045.jpg	read and write	Feb 05, 2021 03:27 PM 561 KE	3 JPEG image
	road-1072823_1920-1568x915.jpg	read and write	Feb 05, 2021 08:13 AM 544 KE	3 JPEG image
	forest-931706_1920.jpg	read and write	Feb 05, 2021 08:13 AM 543 KE	3 JPEG image
	avenue-2215317-1536x1024.jpg	read and write	Feb 05, 2021 03:27 PM 537 KE	3 JPEG image
	road-1072823_1920-1536x897.jpg	read and write	Feb 05, 2021 08:13 AM 520 KE	3 JPEG image
	E tree-276014_1920.jpg	read and write	Feb 05, 2021 08:13 AM 519 KB	3 JPEG image
	nature-3082832_1920.jpg	read and write	Feb 05, 2021 08:12 AM 432 KE	3 JPEG image
	sunset-3325080_1920.jpg	read and write	Feb 05, 2021 08:13 AM 382 KE	3 JPEG image
	E hills-615429_1920.jpg	read and write	Feb 05, 2021 08:13 AM 378 KE	3 JPEG image
	mountain-landscape-2031539_1920-1568x882.jpg	read and write	Feb 05, 2021 08:13 AM 361 KE	3 JPEG image
	mountain-landscape-2031539_1920-1536x864.jpg	read and write	Feb 05, 2021 08:13 AM 342 KE	3 JPEG image
	mountains-1761292_1920-1568x883.jpg	read and write	Feb 05, 2021 08:12 AM 304 KE	3 JPEG image
	tree-276014_1920-1568x997.jpg	read and write	Feb 05, 2021 08:13 AM 296 KE	3 JPEG image
	mountains-1761292_1920-1536x865.jpg	read and write	Feb 05, 2021 08:12 AM 291 KE	3 JPEG image
	tree-276014_1920-1536x977.jpg	read and write	Feb 05, 2021 08:13 AM 285 KE	JPEG image
	car-engine-1548434_1920-1568x1042.jpg	read and write	Today 10:37 AM 281 KE	3 JPEG image

Reduce large images and save images in the right format to improve your site's performance.

For more information on using images in WordPress, see these tutorials:

Updated: April 9th, 2023