

# JPEG XL SUPPORT

Status

🟡 Pending

Priority

5 Nice to have

Task

JPEG XL support

Add a timesheet

Add a timesheet for this task

Description

> [JPEG XL](#) is the future of all image formats. It is a new royalty-free image codec targeting the image quality as found on the web, providing about 60% size savings when compared to original JPEG at the same perceptual quality, while supporting modern features like HDR, animation, alpha channel, lossless JPEG recompression, lossless and progressive modes. It is based on Google's PIK and Cloudinary's FUIF, and is an ISO standard.

It can even losslessly recompress existing JPEG images (though Tiki could probably get even better-optimized results by re-generating all the thumbnails sizes to do it "cleanly" without worrying too much about backward compatibility).

Explanation here: <https://www.slideshare.net/cloudinarymarketing/imagecon-2019-jon-sneyer>

Reference implementation here: <https://github.com/libjxl/libjxl/>

Adoption:

- Chromium/Chrome and Firefox's dev versions already have initial implementations.
- Imagemagick already supports JPEG XL
- For GD, I filed a ticket at <https://github.com/libgd/libgd/issues/699>
- On Linux, gThumb, GIMP, Nautilus/etc. already supports JPEG XL.
- ...and so do various others: [https://en.wikipedia.org/wiki/JPEG\\_XL#Official\\_support](https://en.wikipedia.org/wiki/JPEG_XL#Official_support)

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The JPEG XL community is very motivated and vocal. If they see you making progress about it, they will retweet (and they monitor any mention of jpeg xl or #jpegxl on twitter, and they also have a subreddit). If you need help, their experts will happily advise. There's at least two of them who are very easy to identify due to their Twitter activity.

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### Marketing it:

- Once thips is implemented in Tiki, there needs to be a (joint?) press release announcement of some sort to leverage this, and again when it lands in a stable version, and again when it becomes enabled/enforced by default
- Being featured on the list of apps that implement it, in [https://en.wikipedia.org/wiki/JPEG\\_XL#Official\\_support](https://en.wikipedia.org/wiki/JPEG_XL#Official_support), and thus crosslinking to the Tiki wikipedia page, would make a *lot* of sense.

### Timeline:

- I think it would be worthwhile for Tiki to prepare for this and maybe announce it in time for the 20th anniversary. Once it is supported across browsers (see <https://caniuse.com/jpegxl> particularly its "notes" and "resources" tabs) I believe it should be the default public-facing format for Tiki.
- No rush to do it "urgently this week" however, as the EvoluData website is not ready so we don't really have a nice home to receive public attention
- If we miss Tiki's 20th anniversary timeframe/deadline for this, no big deal, it could come in later as its own big piece of announcement, though in that case it would be PR-beneficial to publicly announce it as being on our roadmap. Not just for PR, but also commenting on browsers' bug trackers upstream to "show traction" to help convince them that they should indeed intend to deploy the damned thing into production. We would be joining big guys like Adobe, Facebook, etc. in publicly stating our support, which certainly counts for something.

### Emails

Assigned to  
developer


Assigned by  
marclaporte

Keep informed  
sales-marketing-team

Also visible to

1- Visible to Anonymous (Public content)

### Related

-  [5 Nice to have: Wrong mimetype detection? WebP images don't get thumbnailed in Tiki tracker attachments list, and are not shown inline in page contents assigned to josaphat.imani](#)

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Saturday 02 of July, 2022 09:44:08 EDT

by Jeff Fortin T.

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Wednesday 10 of May, 2023 16:17:19 EDT

# Comments



Sounds great to me

**Marc Laporte** 2022-07-02 10:05

What can we do until gd supports it?

<https://packagist.org/packages/joppuyo/jpeg-xl-encode>



Avif?

**Marc Laporte** 2022-08-21 08:56

<https://caniuse.com/avif>

<https://caniuse.com/jpegxl>



JPEG XL still beats AVIF

**Jeff Fortin T.** 2022-08-23 11:43

Basically JPEG XL beats the crap out of *everything* (hence the "Next-Gen Alien Technology from the Future" moniker, compared to traditional JPEG being simply "Alien Technology from the Future"). Indeed the battle for market dominance is raging and I hope browser vendors get their sh!t together instead of only pushing AVIF + AV1, because JXL is technically superior in every aspect of quality *and* encoding performance (it's as fast as traditional turbo JPEG).

Some comparisons here:

- [https://cloudinary.com/blog/how\\_jpeg\\_xl\\_compares\\_to\\_other\\_image\\_codecs](https://cloudinary.com/blog/how_jpeg_xl_compares_to_other_image_codecs)

- <https://avif.io/blog/comparisons/avif-vs-jpegxl/>

The only situation where AVIF has an edge is in ultra low-bandwidth scenarios where you totally starve the encoder from bitrate, which doesn't really sound like real-world to me.



@Jeff

Marc Laporte 2022-08-21 10:31

I like the idea.

But I don't see what we can do, at our size.

The web giants need to work this out and we'll follow as soon it's available in browsers.