A04 "IMAGE PROCESSING ADVENTURE QUEST"

ITAI 1378- *Introduction to Computer Vision*

Professor: Patricia McManus

This Photo by Unknown Author is licensed under CC BY-NC

Group 4

Kaire Campomanes

Dallas Foster

Elijah Ghaya

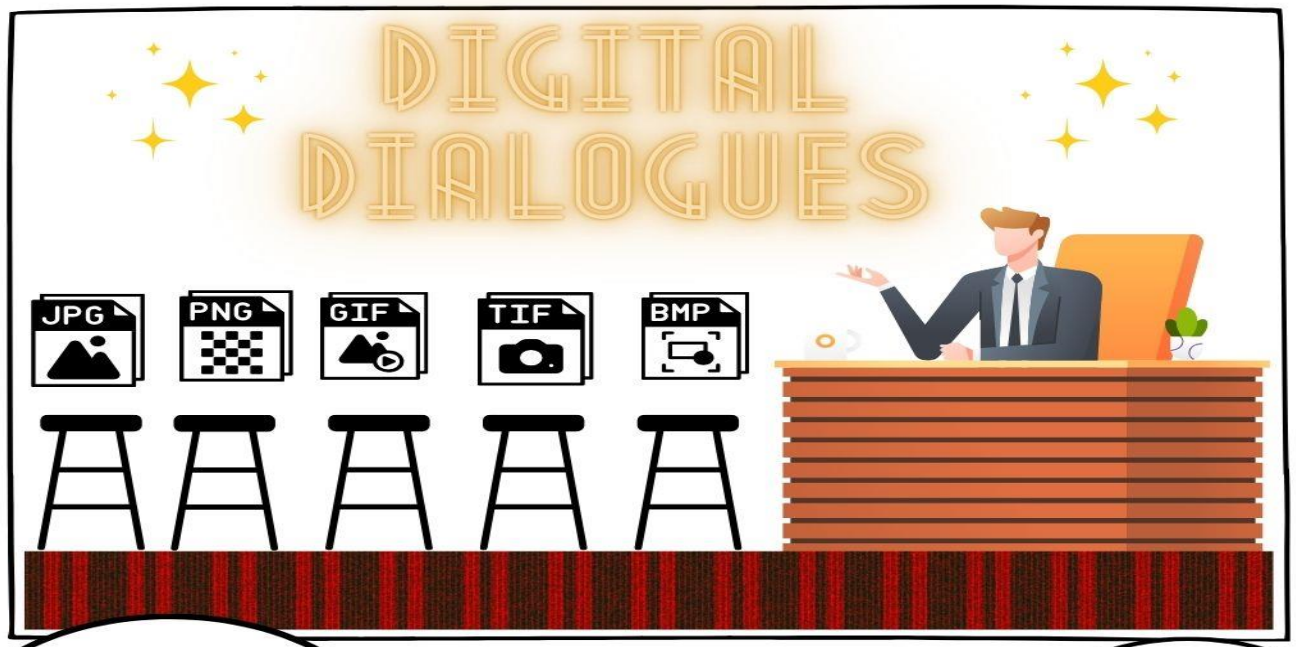
Hisham Macaraya

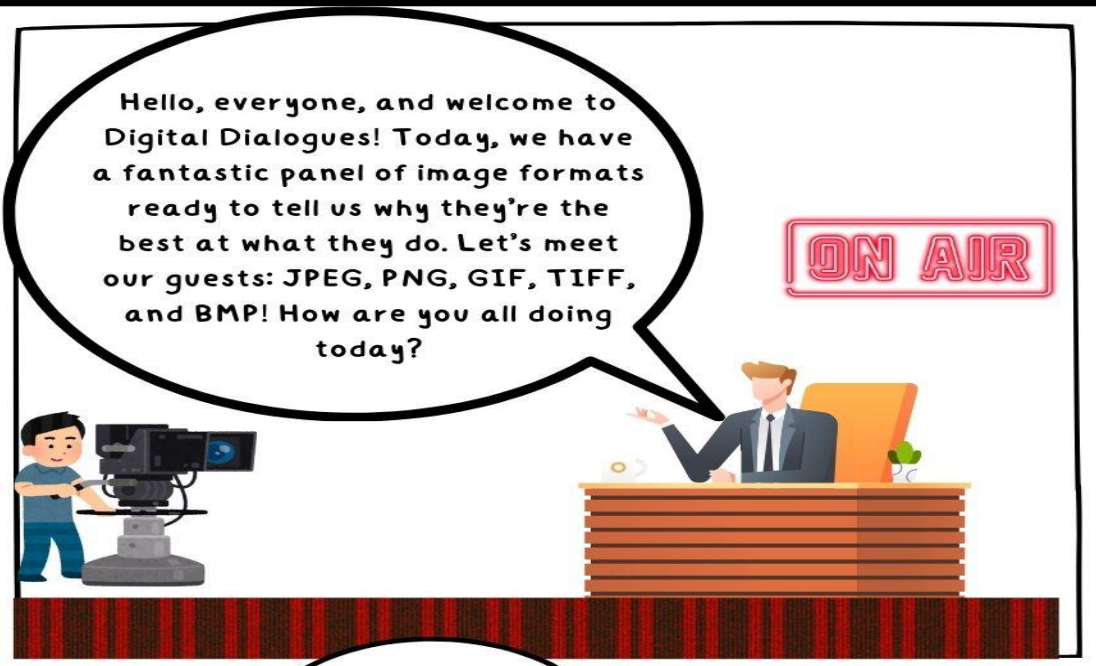
Katherine Stanton

9/16/2024

Techie Tom Interviews Image Formatting's Finest

TUNE IN FOR THE INSIDE SCOOP WITH JPG, PNG, BMP, TIF, AND GIF

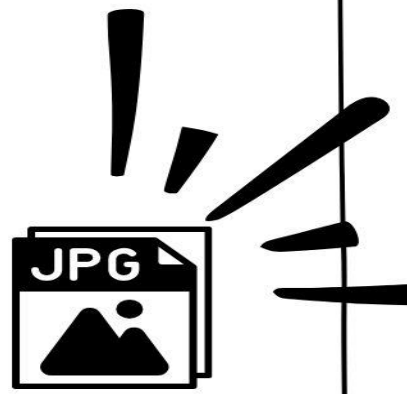




Fantastic! Let's dive into the first question: Why should someone choose you for their next project? JPEG, you look eager to start!

ON AIR

Oh, you know me, Tom. I'm the go-to for everyday photos, especially when people need something easy and light. I compress images so they don't take up too much space—perfect for websites or sharing on social media. I'm fast and efficient. Sure, I lose a bit of quality when you save me over and over, but I get the job done. Ain't nobody complaining when the files load fast!



Hold on, Tom, I think I'm the one they should turn to if they care about quality and transparency. I don't lose any details, and my edges are always crisp. I'm the top choice for logos, icons, and anything that needs a see-through background. Sure, I might take up a little more space, but we both know perfection comes with a price.

I hear you, PNG, but let's not forget about fun! I bring life to the party with my animations. Think about all those memes and moving stickers people can't get enough of! Yeah, my colors are limited, but who needs millions of shades when you're looping forever in glorious motion?

Love the energy, GIF! But TIFF, you look like you're ready to weigh in—let's hear it.

Thank you, Tom. Now, while my colleagues here are suitable for casual applications, I pride myself on being the choice of professionals. Photographers, designers, and archivists—people who need every single detail preserved—trust me. I offer lossless quality, meaning no data is sacrificed, and I can handle layers and metadata with ease. True, I may not be the most efficient in terms of file size, but some things, Tom, are simply worth the extra space.

I'm with TIFF on this one. Back in the day, I was the go-to when you needed uncompressed, pixel-perfect quality. I'm simple—none of this fancy compression or transparency stuff. You get what you see with me. Sure, I'm a bit old-fashioned, but sometimes classic just works, y'know?

Some solid points all around! Now, let's move to our next question: What's your biggest weakness? Everyone has one—come on, be honest.

I'll go first, Tom. I compress to save space, but that means I lose some details. The more you edit and save me, the worse I get. It's called generation loss. So yeah, if you need pixel-perfect precision, I might not be your guy.

Well, I'm perfect at maintaining image quality, but my file sizes can be hefty. If you've got a huge, colorful image, I'll take up a lot of room. I'm worth it, of course, but I'm not the best choice when you're low on storage space.

Oh, I know my limits! My color palette is super tiny—just 256 colors. Sometimes, I can look a little grainy, and sure, my animations are simple compared to modern standards. But I'm retro, and that's part of my charm, right?

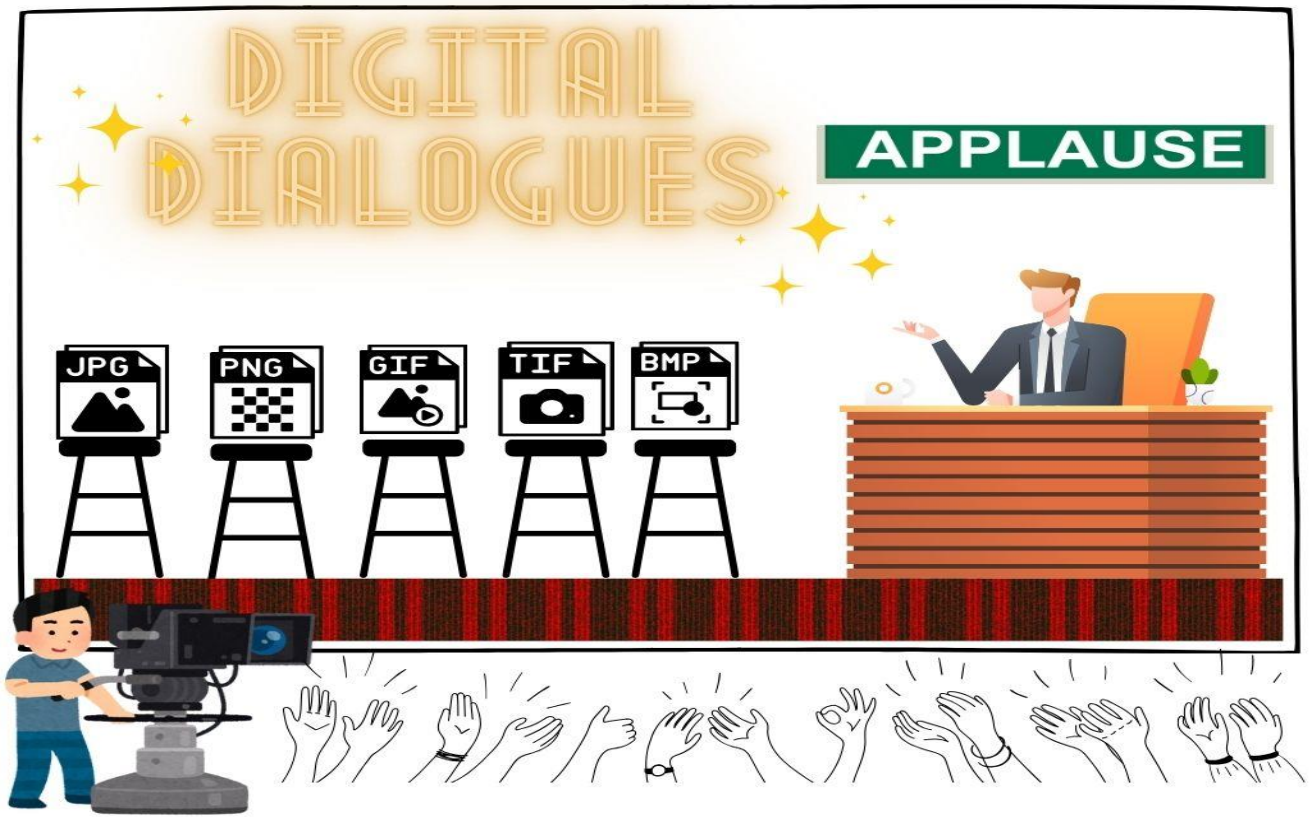
I suppose my weakness would be my file size. I don't compress easily, and when I do, it's lossless, so the files remain quite large. This is why I'm not ideal for the web or casual use. But for professional tasks, that's a small price to pay.

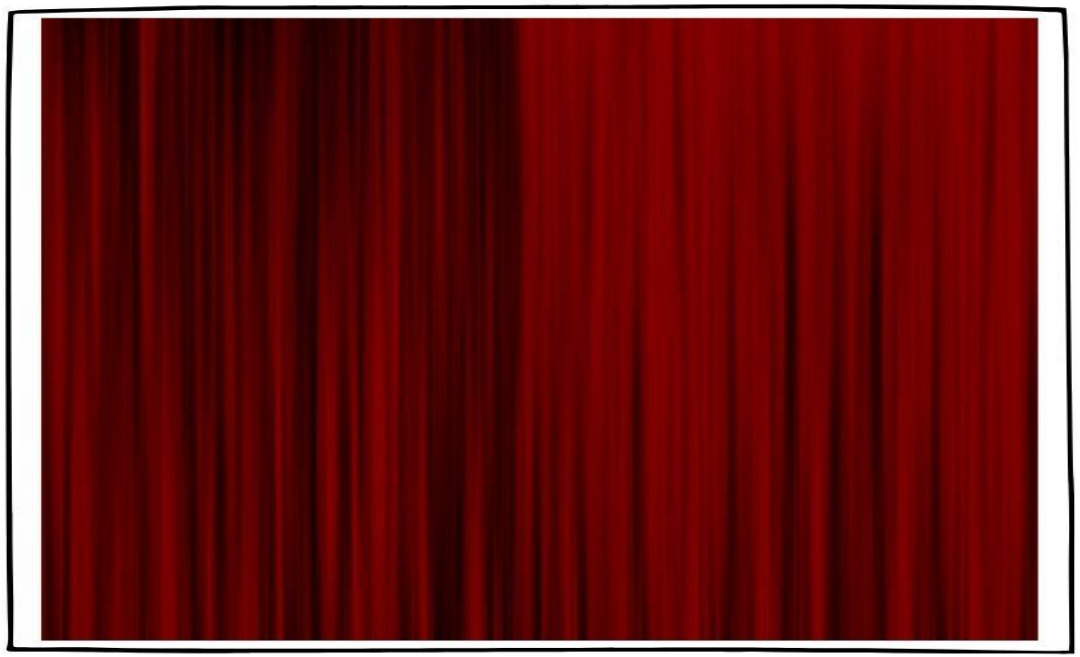
I'm everywhere in meme culture! People have used me to express everything from joy to frustration in just a few frames. I once saw myself looping on a billboard. Talk about leveling up!

I'd have to say when people email me, expecting me to just slip into inboxes unnoticed. My files are massive, Tom. I'm not built for casual exchanges—I'm for professionals, museums, and archives. Email? No thanks.

Weirdest situation? Probably when someone accidentally saves a 10MB image as a BMP just for a quick screenshot. They're like, "Why's this file huge?" Yeah, that's my bad, but I'm old-school.

I love the enthusiasm! Well, it's clear each of you has your strengths and a place in the digital world. Thanks for joining us today! That wraps up this episode of Digital Dialogues. Catch us next time for more tech fun!


DIGITAL
DIALOGUES
APPLAUSE
JPG
PNG
GIF
TIF
BMP



References:

- JPEG: Joint Photographic Experts Group (JPEG). (2020). JPEG image compression standard. Retrieved from https://jpeg.org
- PNG: World Wide Web Consortium (W3C). (2003). Portable Network Graphics (PNG) Specification (2nd Ed.). Retrieved from https://www.w3.org/TR/PNG/
- GIF: CompuServe Inc. (1987). Graphics Interchange Format (GIF). Retrieved from https://www.w3.org/Graphics/GIF/spec-gif87.txt
- TIFF: Adobe Systems Incorporated. (1992). Tagged Image File Format (TIFF). Retrieved from https://www.adobe.com/go/tiff
- BMP: Microsoft Corporation. (1990). Bitmap Image File (BMP) format. Retrieved from https://learn.microsoft.com/en-us/windows/win32/gdi/bitmaps