Vision forward

Tracing Image SEO from its roots to Al-enhanced horizons

Roxana STINGU

Head of Search and SEO @roxanastingu



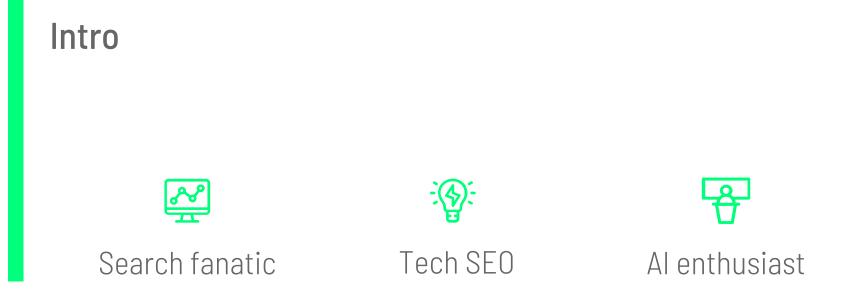


BY DDMA iab

Amsterdam 2024

)roxanastingu - March 2024









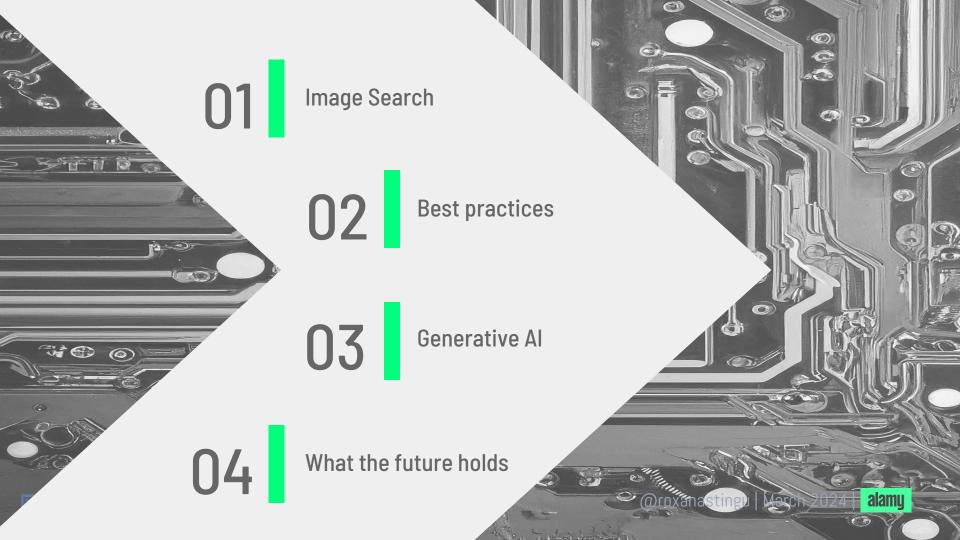


Image Search



It all started with a green dress...





New search facet for X < 1 : S > > 6



Images



BIZ & IT TECH SCIENCE POLICY CARS GAMING & CULTURE STO

BING STILL WORKS ... -

Internet rages after Google removes "view image" button, bowing to Getty

Getty drops lawsuit against Google in exchange for controversial image search changes.

RON AMADEO - 2/16/2018, 5:05 PM



Enlarge / Google Image search will no longer offer the "view image" button, which directly linked to an image.

At first there were only JPEGS



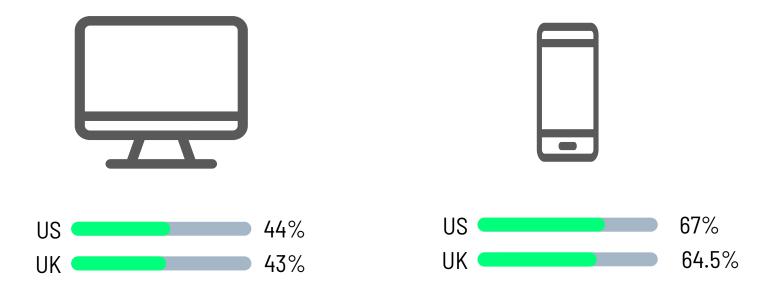
Images are everywhere





Images in Google Web Search

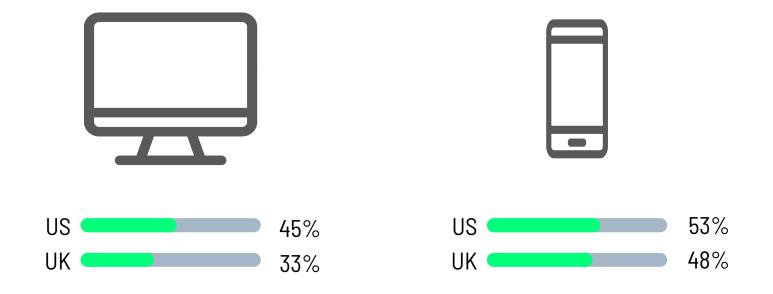
Data from SEMRush Sensor on March 10th, 2024





Images in Google Web Search

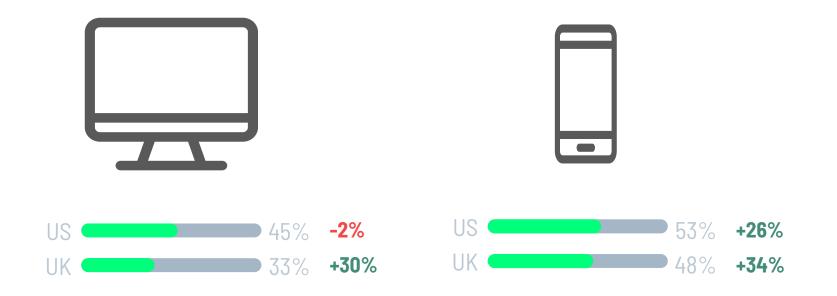
Data from SEMRush Sensor on May 2023





Images in Google Web Search

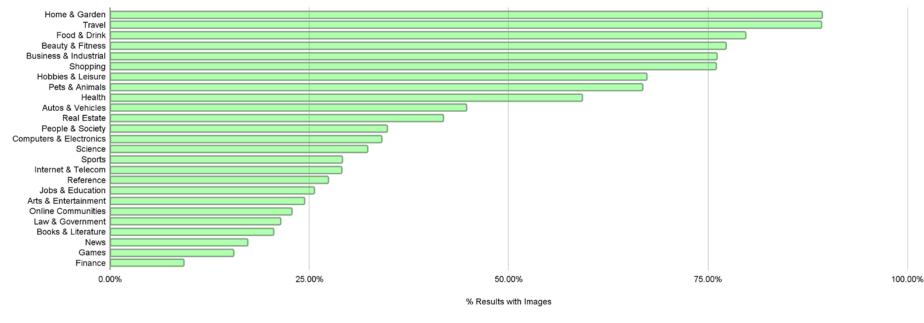
Change in 10 months





% of results with Images in Web Search

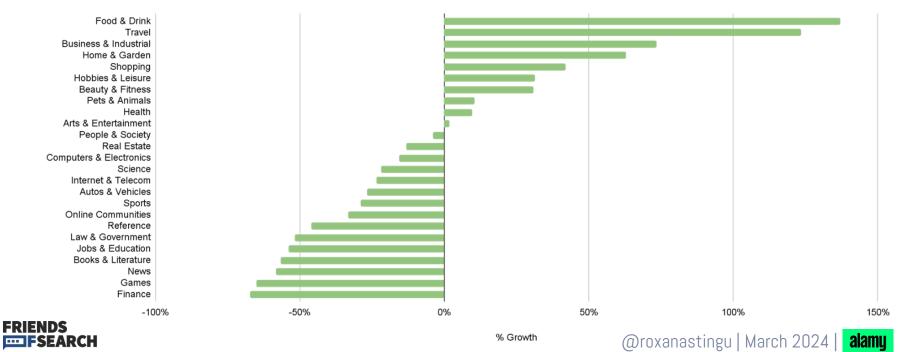
SEMRush Sensor data, US Desktop, March 10th, 2024



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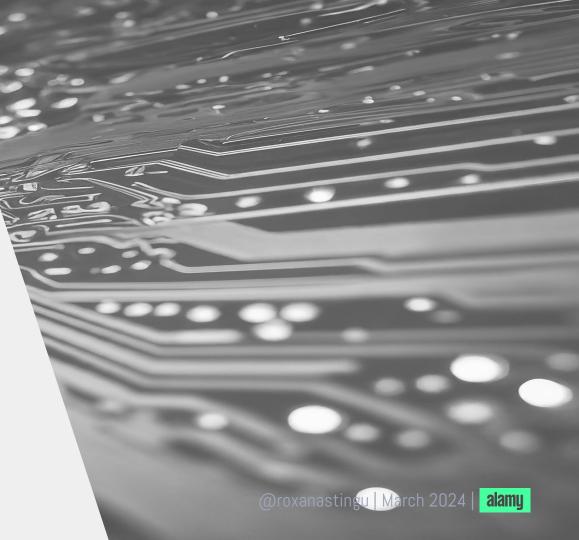
% growth by niche

SEMRush Sensor data, US Desktop, March 10th, 2024 Compared to May 2023



02

Best Practices



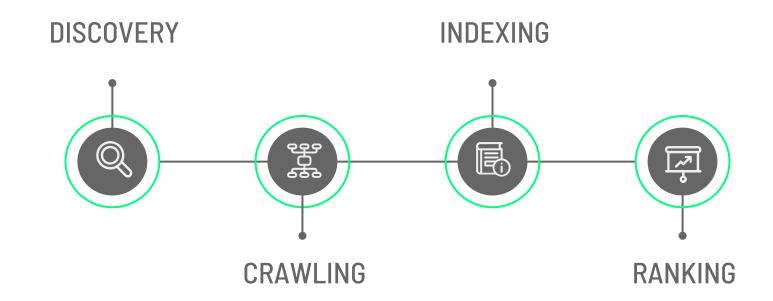










Image sitemaps

<?xml version="1.0" encoding="UTF-8"?>

<urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9"</pre>

xmlns:image="http://www.google.com/schemas/sitemap-image/1.1">

<url>

<loc>https://www.example.com/sample1.html</loc>

<image:image>

<image:loc>https://www.example.com/image1.jpg</image:loc>

<image:caption>Succinct sentence to describe the image</image:caption> <image:geo location>Amsterdam, Netherlands</image:geo location>

<image:title>Image title</image:title>

<image:license>Image Archive License, Standard Use</image:license>

</image:image>

</url>

</urlset>

Required

Deprecated





DISCOVERY



HTML

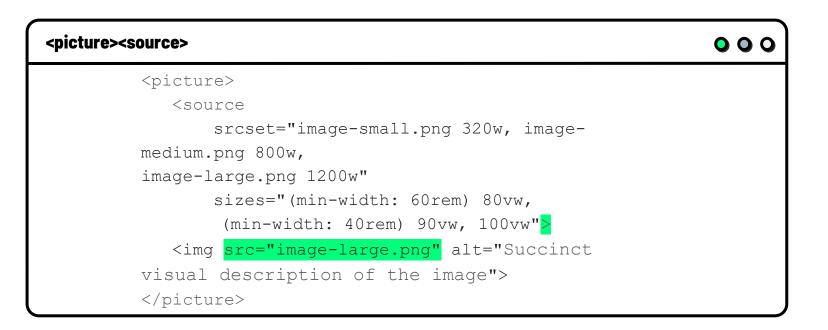
					C	00
<img <mark=""/> src="imagel.jpg"	alt="Succinct	visual	description	of the	image"	/>

<div></div>	000
<div style="background-image:url(image1.jpg)">Succinct visual</div>	
description of the image	



DISCOVERY

HTML: Responsive and image formats

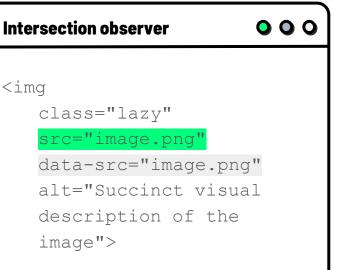




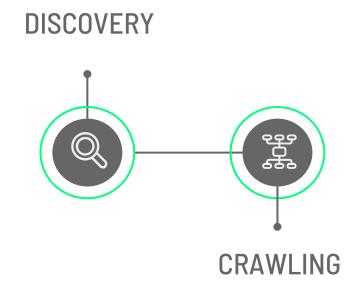
Lazy loading



Browser level	•••	Intersection o
		<img< th=""></img<>
<img< td=""><td></td><td>class=</td></img<>		class=
<pre>src="image.png</pre>	J TT	src="i
loading="lazy"	1	data-s
alt="Succinct	visual	alt="S
description of	the	descri
image">		image"









약

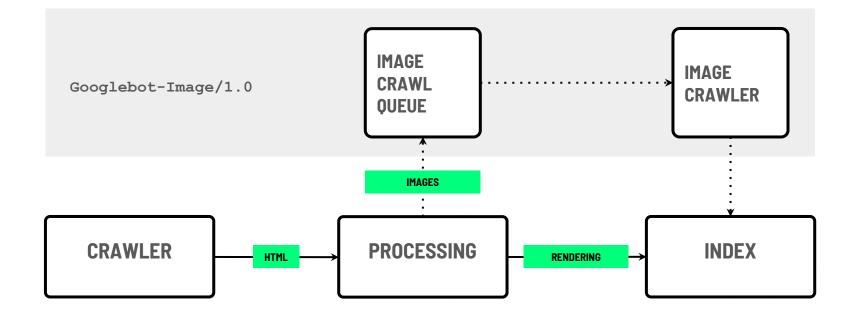
The basics of crawling





<u>용</u>







CDNs



← Tweet



What are the best practices around maintaining links, traffic & #SEO value for images when they are hosted on a CDN, since the CDN is on a subdomain or separate website? @googlewmc @JohnMu

9:35 PM · Mar 4, 2019

2 Retweets	9 Likes	1 Bookmark		
Q		↑ ↓	\heartsuit	Ţ



giovannimu (official) — #StaplerLife @JohnMu · Mar 5, 2019 Replying to @lilyraynyc

It doesn't matter how you host the images, there's no SEO-bonus for having them on the same host/domain. However, since changing image URLs is "hard", I'd use your own hostname for the CDN (avoid yoursite.cdncorp.com and use cdn.yoursite.com), so you can change CDNs.

```
Q 5 t↓ 40 ♡ 81 III ±
```



CDNs + Redirects

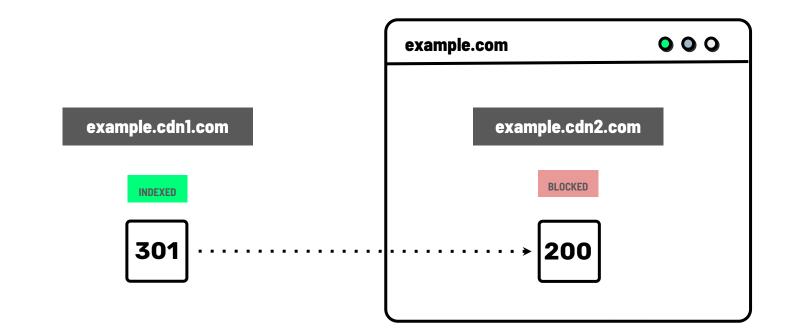


example.com	•••
example.cdn1	.com
INDEXED	
200	

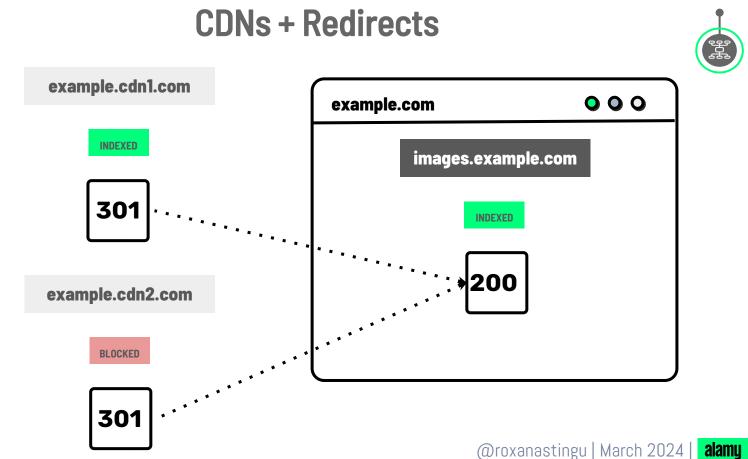


CDNs + Redirects

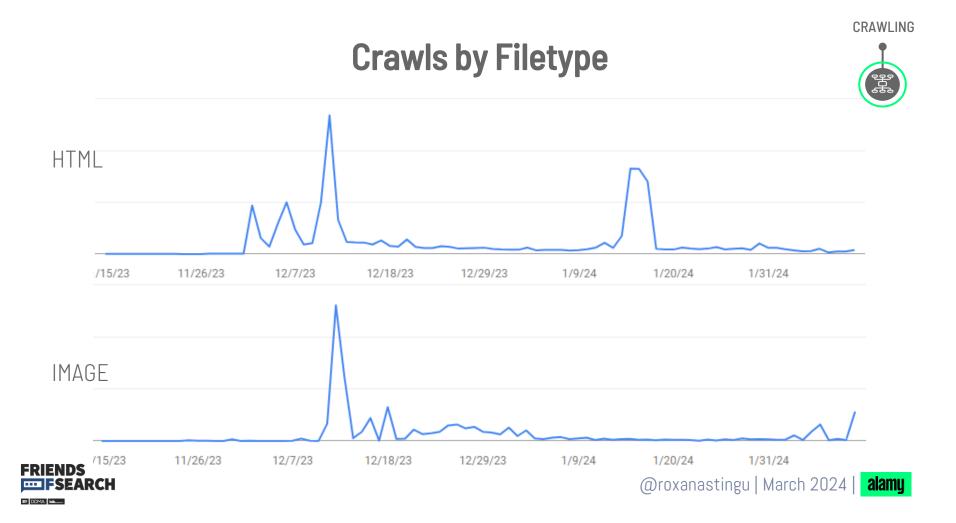






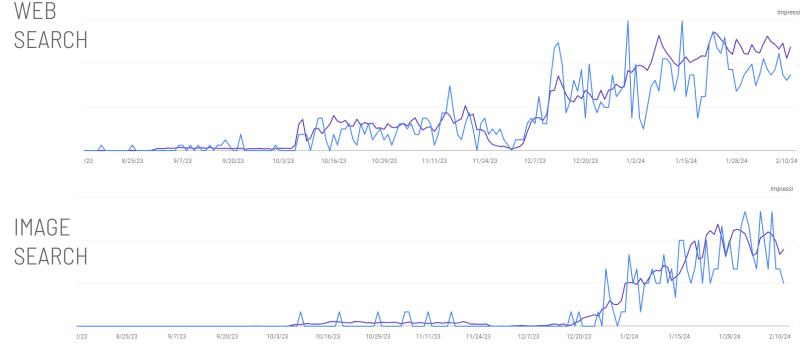








Expect delayed results in Image Search





Canonicalisation

Popper la construction de la con

I've set a canonical (.htaccess) header from an image to another one.

For instance:

1

9

site.com/image-small.jpg

has a canonical header to:

site.com/image.jpg (Original image).

However the website only uses the image-small.jpg and because of that, image.jpg was never read by Google and is not indexed (only image-small.jpg is). After about a week, the image was removed from the results.

Is it normal for Google to remove credit from content because the original content is poorly indexed?





No canonicalisation for images

子

1 Answer

Highest score (default) Sorted by: ŧ

2 •

Google doesn't use rel=canonical headers for images, so you're probably just seeing normal fluctuations (there's no guarantee of indexing).

Share Improve this answer Follow

answered Mar 28, 2017 at 19:36



EDIENDS BY DDMA iab



Advice still stands*



answered Mar 28, 2017 at 19:36



John Mueller **7,441** • 1 • 20 • 26

*Last checked on January 15th, 2024



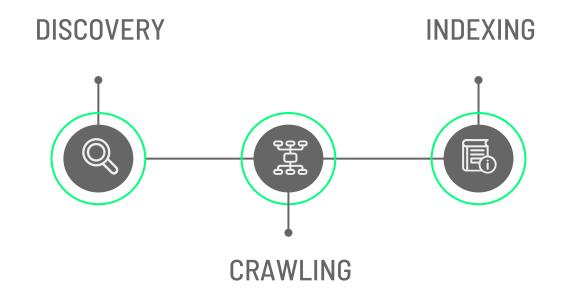


<u>용</u>

Blocking crawls to images

robots.txt	•••
User-agent: Googlebot-Image	
Disallow: /very-secret-images/	







INDEXING

Indexable image formats





	000
<img src="data:image/svg+xml;<mark>base64</mark>,



Image retrieval patent

206

210

Image Search

Results

Image Search

Results

Image

Collection

<u>250</u>

Index

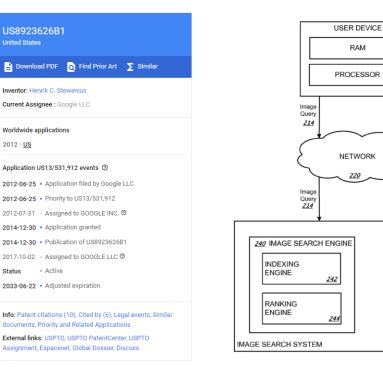
Database

260

230

<u>216</u>

<u>216</u>



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Status

INDEXING

Textual information





WEB DOCUMENT

Text around images Alt attribute values

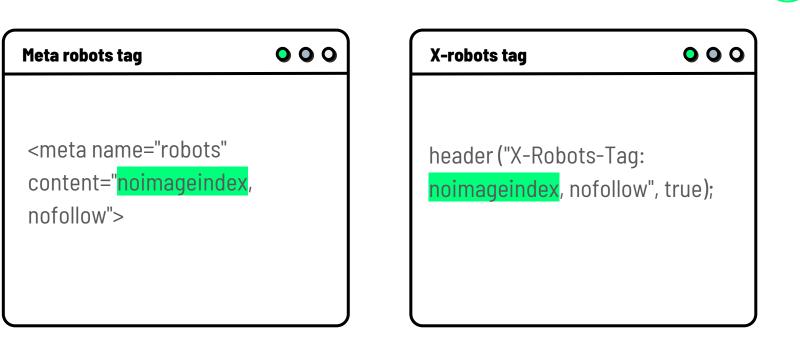
Image captions Anchor texts Metadata File name



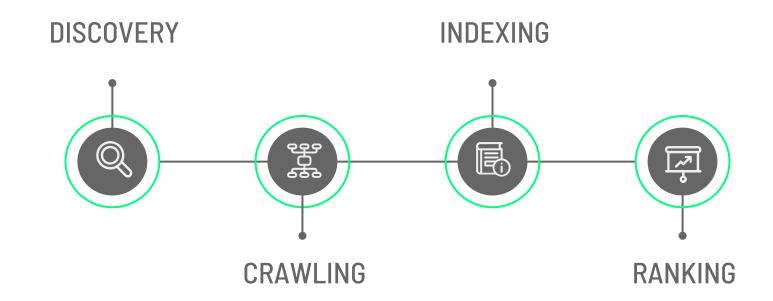
THE INDEX

INDEXING

Keeping images out of the index









The basics of ranking for images



PAGE WITHOUT IMAGE



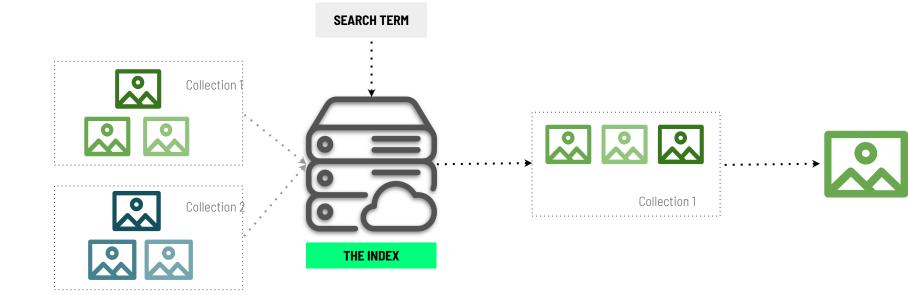
 \checkmark

IMAGE WITHOUT PAGE





How images are ranked

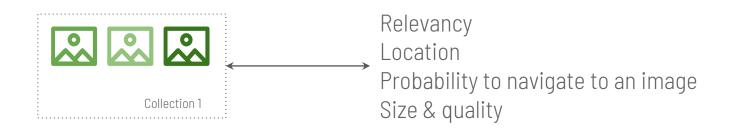






What can influence the order of images in a collection









What is image size?

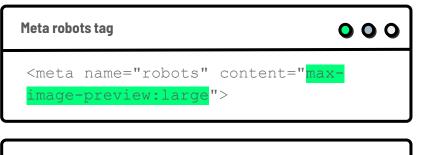
File size	Image resolution	Aspect ratio
123 kb	1200px wide	16x9, 4x3, and 1x1



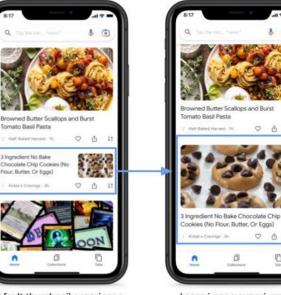


Control image previews









Default thumbnail experience

Large image experience



Does Google use EXIF?





"The short answer is: [...] it is something that Google is able to parse out, and I think we do reserve the right to use it in ranking." **Matt Cutts**



Does Google use EXIF?



2014

"The short answer is: [...] it is something that Google is able to parse out, and I think we do reserve the right to use it in ranking." Matt Cutts



"This is still the same as before." John Mueller



RANKING

Does Google use EXIF?



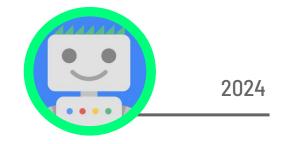


2014

"The short answer is: [...] it is something that Google is able to parse out, and I think we do reserve the right to use it in ranking." Matt Cutts



"This is still the same as before." John Mueller



"To tell Google about your image metadata, add structured data or IPTC photo metadata to each image on your site." **Google Search Central Documentation - Image metadata** in Google Images



IPTC - International Press Telecommunications Council

Image Rights Metadata



Creator

Credit line

Copyright notice



T/O Todd Owyoung

Jason Aldean | New York Music Photographer Todd Owyoung

Creator: Todd Owyoung | Credit: Todd Owyoung Copyright: © Todd Owyoung

Information extracted from IPTC Photo Metadata.

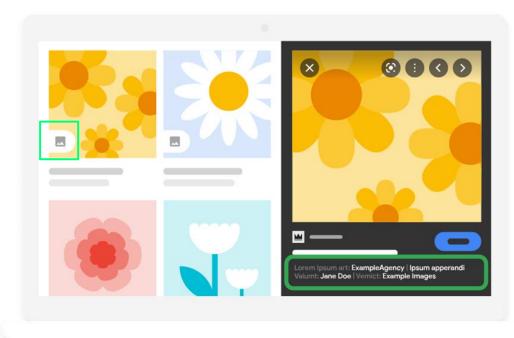
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Visit



Licensable Badge





license

acquireLicensePage



Structured data v. IPTC

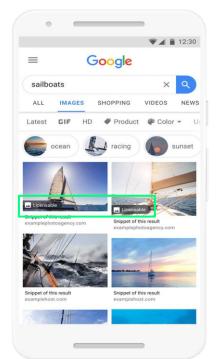


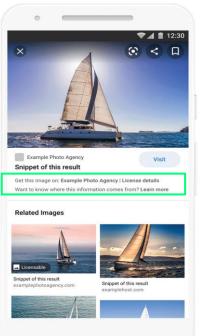


Structured data

Page specific

Creates rich snippets for your pages that are ranking for a specific image







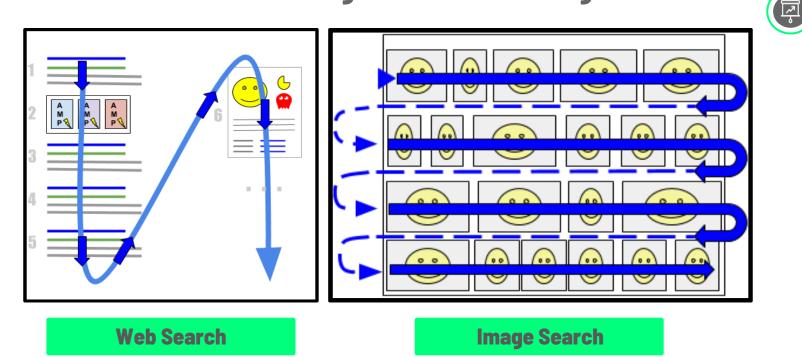
IPTC metadata

Image specific

Creates rich snippets whenever the image shows up, no matter which page is ranking



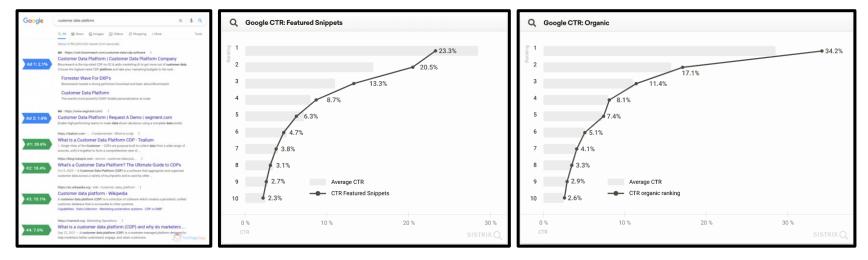
Web v. Image Search ranking











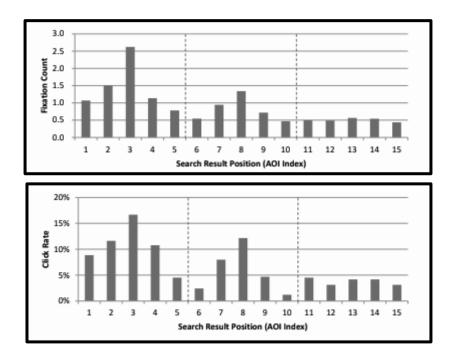
Web Search

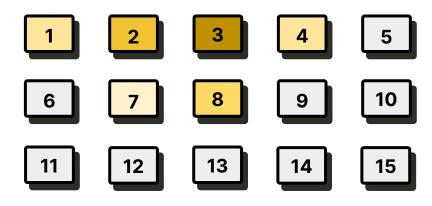




~

Eye tracking study for Image Search





An Eye-Tracking Study of User Behavior in Web Image Search



Wanxuan Lu and Yunde Jia Beijing Laboratory of Intelligent Information Technology, School of Computer Science, Beijing Institute of Technology, Beijing 100081, China



Spikes in impressions?



Roxana Stingu @RoxanaStingu

Replying to @bertiecharlton

If you see keywords ranking 1st in Web Search with lots of impressions and virtually no clicks, it's most likely an image inside an image pack - clicks to these go to image search so check same keywords for clicks under Image Search rather than Web Search.

2:42 PM · Nov 5. 2021 · Twitter for Android



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...



Search Console - Web Search data cheat sheet



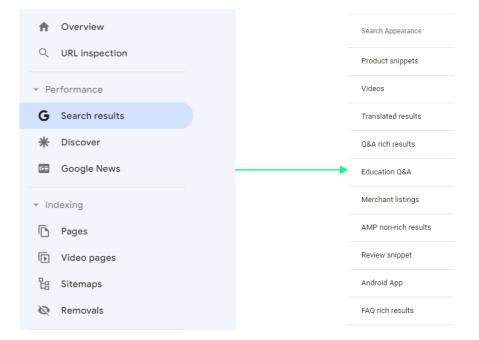
		Impressions	Clicks	Average Position
Knowledge Panel	Clicking takes you to Image Search		Query Refinement	Same as Knowledge Panel links, after blue links
lmage Carousel	Clicking opens the Image Preview panel	When Scrolled into view	\times	Space it occupies
Image Pack	Clicking takes you to Image Search		\times	Space it occupies
lmage Thumbnails	Clicking takes you to the website	\checkmark		Space it occupies





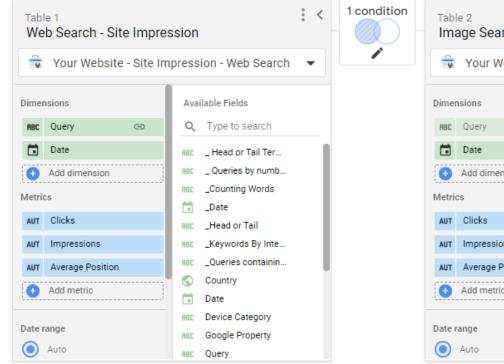
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Search Console Search Appearance





Get creative



: < Image Search - Site Impression 💼 🛛 Your Website - Site Impression - Image Sear... 🔻 Available Fields Ð Q Type to search Ē. _Date \odot Country Add dimension Date Device Category ABC Google Property ABC AUT Impressions Query ABC Average Position 123 Average Position 123 Clicks Add metric Impressions 123 123 Site CTR

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RANKING

<u>ک</u>



Estimate what queries appear in image packs or knowledge graphs



CASE

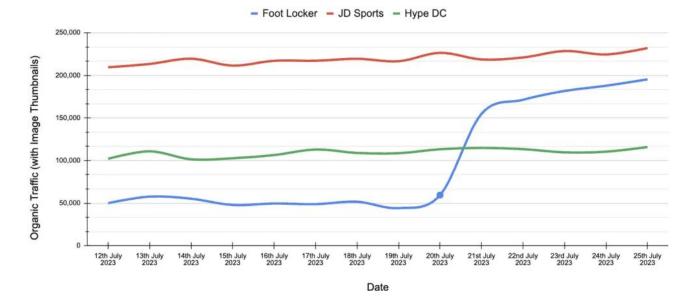
WHEN Query (Image Search)=Query (Web Search) AND Average Position (Web Search) =1 AND Web Impressions > 100 AND Web Clicks < (Web Impressions/100) THEN "Image Pack or Image Carousel" WHEN Query (Image Search)=Query (Web Search) AND Average Position (Web Search) >5 AND Web Impressions > 100 AND Web Clicks < (Web Impressions/100) THEN "Knowledge Panel" ELSE "Other"

END



Are images worth the hassle?

Foot Locker Google image thumbnail organic traffic vs. competitors (Semrush index)



228% increase in estimated organic visits p/mo that now have image thumbnails

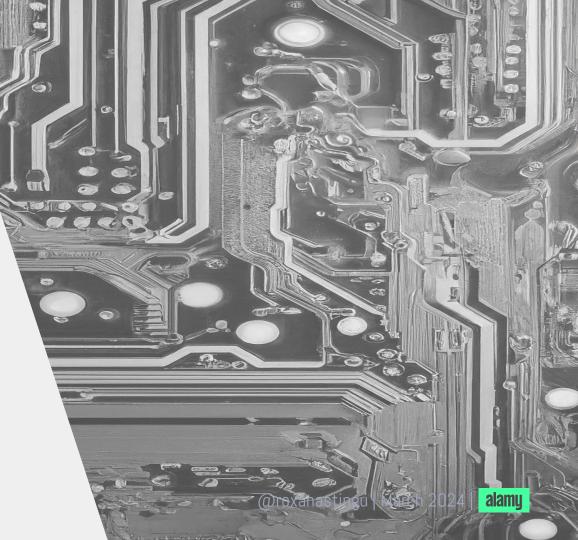
The change? Image dimensions update from 67×67 to 200x200.



Footlocker case-study on https://brodieclark.com/

03

Generative Al

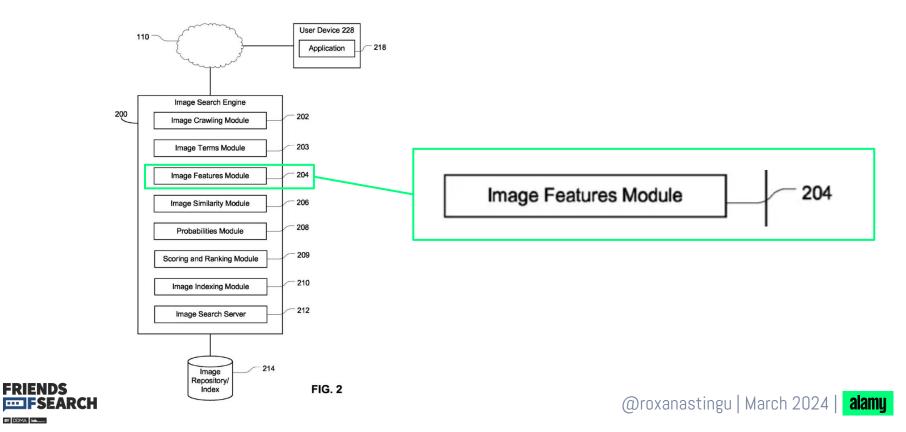


Is Al used for ranking?



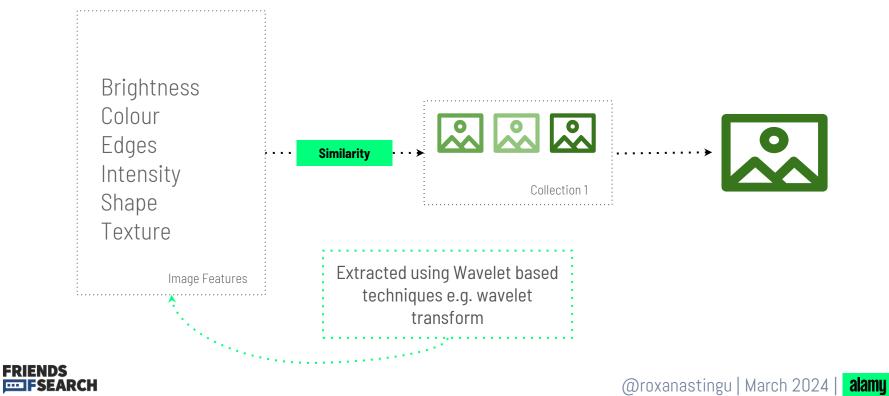


Is Al used for ranking in Image Search?



....

Image features



BY DDMA iab

....

Image patents made easy



Bill Slawski



seobythesea.com

jcchouinard.com



Embeddings

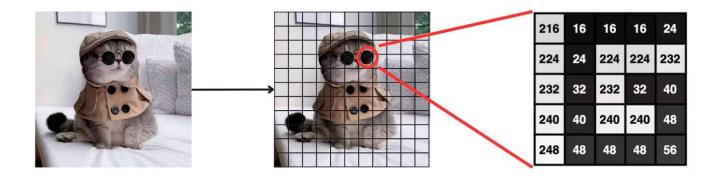
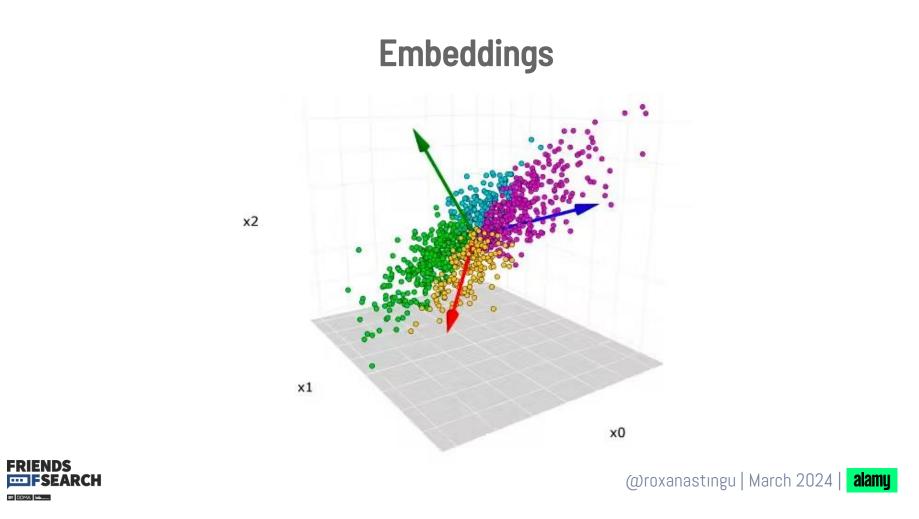
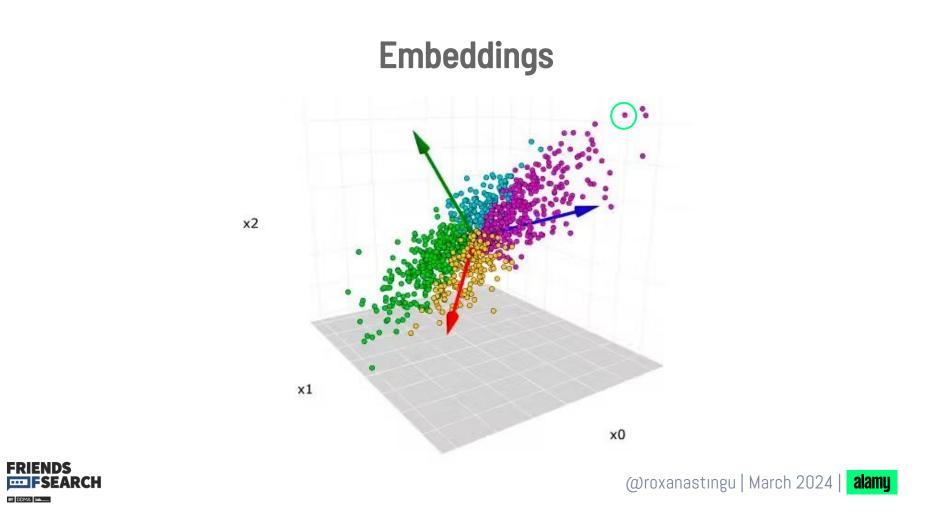
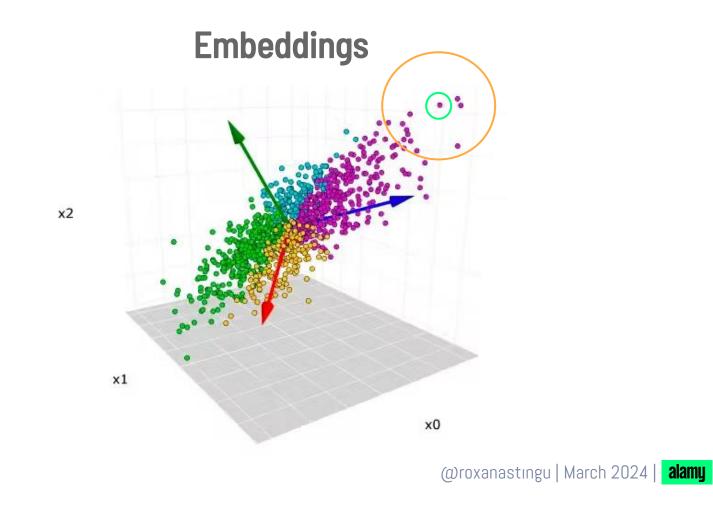


Image embeddings are numerical representations of images that capture their semantic meaning and visual features.

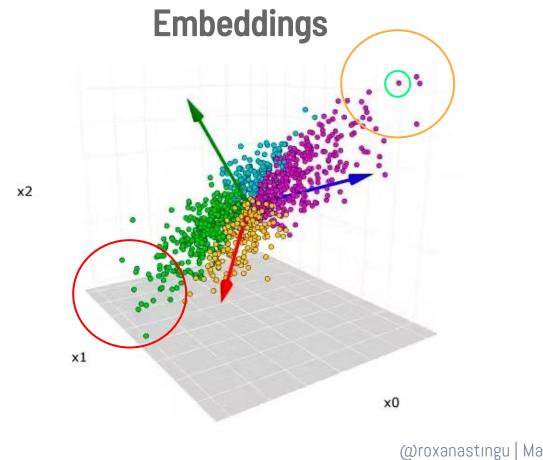














It's all about balance

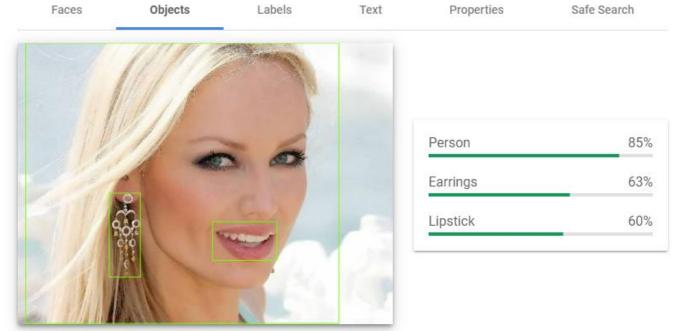
Image features extraction algorithms



Image features embedding



Google can detect details in images



titrealac-n.jpg



Yet this woman is seen as pizza



Pizza aux Anchois -





Pizza poivrons anchois - La recette ...

🞽 Je suis un cuisinie Recette de pizza aux anchois, olives noi... Recette La Pizza Aux Anchois Vous Rappro...

🦆 🙃 Q



O OFYR

Pizza aux anchois | Recette OFYR

- Cuisine et mets



۰ 📖

Connexion

S Recoin.fr Recette de la Pizza Napolitaine recette i... Recette Pizza aux ancho.



La pizza aux anchois - G.

Recette de Pizza napolitaine

P Type here to search

Ciuli:

Recherches associées pizza napolitaine anchois pizza anchois marseille

Toqués 2 Cuisine

pizza anchois capres

pizza aux anchois



Chef Simon

Femmes d'Aujourd'hui

Pizza-wrap aux anchois, olives et c... Pizza express aux anchois - Cuisine et Re...

- Soignon

M Je suis un cuisinier

Pizza au fromage de chèvre, anchois et oli... Recette de pizza au thon, anchois, poiv...





Pizza napolitaine (mozzarella, ...

1 w

1

1 Les Foodies

Recette de PIZZA NAPOLITAINE ...

X N

T





af Recettes - aufeminin

Si Ptitchef

🖷 Le Coin Du Pizzaiolo







Image Search results for "pizza aux anchois" on Google.fr

6

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Magicmaman

D Lestoquesdardeche.fr

Pizza aux anchois et à l... Recette pizza Napoli (Pizza aux an... Pizza au thon et aux an... Pizza au thon & anchois ou câpre... Pizza sauce tomate, anchois ...



The greatest experiment

Anchovy pizza

Posted on June 20, 2011 by pipo

What, how, but what is the relationship between seo and anchovy pizza?

We can't say that there really is a relationship, except that this article aims to do a test on Google image, and that we need "anchovy pizza" to gain strength. Or more seriously, we need it to see what we can do with this term in Google image.



"anchovy pizza"

No image recognition for Google.

The sole objective of the test is to validate the fact that the image above will be positioned in GG images for the request "pizza with anchovies". There's no reason it shouldn't. For the moment, Google does not recognize images, but it takes into account the textual environment of these to determine the subject. And the environment here is much more **pizzeria** oriented than modeling.

Now, as the technical evolutions of image recognition go, it's a safe bet that the engines will one of these days be able to differentiate the pretty lady above from a vulgar pizza.

What else can I say about this pizza?

We can say as for our test that this pizza recipe is not unanimous. Indeed, anchovies are welcomed as a delicacy by some, and as the worst for the taste buds by others.

For the cranks who would like to know more about this subject, go see here, but overall, we don't care a bit, all we care about is seeing how our pizza will take to the king of engines.

Anchovy pizza recipe

For the maniacs to whom we would have made hungry, it is necessary:

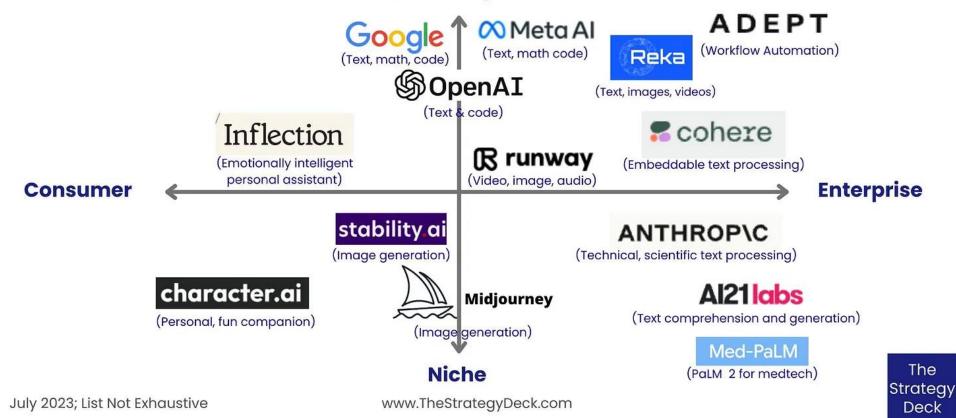
- tomatoes,
- anchovies (necessarily huh!)
- Garlic,
- pepper salt,
- a little olive oil ,



Experiment from baume-referencement.com

Gen Al Companies with Foundational Models

Multi-Purpose









Getty Images sues AI art generator Stable Diffusion in the US for copyright infringement





Who owns the copyright?

author

The Copyright Designs & Patents Act 1988 states that, in the case of a computer-generated artwork, the 'author' (i.e. usually the first owner of copyright) will be "the person by whom the arrangements necessary for the creation of the work are undertaken". ^{14 Sept 2023}

Strachan IP https://strachanip.co.uk > copyright-in-ai-generated-art...

UK Copyright in AI-Generated Artwork - Strachan IP

About featured snippets • III Feedback

Litigation | Copyright | Technology | Intellectual Property | Litigation

REUTERS[®] World \checkmark Business \checkmark Markets \checkmark Sustainability \checkmark Legal \checkmark

Al-generated art cannot receive copyrights, US court says

By Blake Brittain

August 21, 2023 7:29 PM GMT+1 · Updated 7 months ago



BIZ & IT TECH SCIENCE POLICY CARS GAMING & CULTURE

"MERELY MECHANICAL"? -

Opinion: The Copyright Office is making a mistake on AI-generated art

A rule against copyrighting AI art will be unworkable.

TIMOTHY B. LEE - 9/22/2023, 12:07 PM

Firstly, there is the question of protection for Al-generated texts and images. In principle, only original works created by human authors are eligible for copyright protection, meaning Al-generated texts and images fall outside the scope of copyright law. 6 Oct 2023

Mondaq https://www.mondaq.com > copyright > generative-ai-a...

Netherlands: Generative AI And Copyright: The Story So Far

About featured snippets • III Feedback

Breakingviews 🗸

Technology ∨ Investigations

Aa



Ethical foundation models

Comment

AI

Shutterstock expands deal with OpenAl to build generative Al tools

Kyle Wiggers @kyle_I_wiggers / 6:52 PM GMT+1 • July 11, 2023

Ethical AI Image Initiative – Alamy Announces Industry Partnership

AI image generation technology opens up exciting creative possibilities for our customers, but it must be approached in the right way to protect the interests of Alamy content creators. As part of our commitment to exploring ethical opportunities within AI we are pleased to announce our participation in the '<u>The Fair Diffusion Program</u>' – a ground-breaking generative AI initiative launched by <u>BRIA AI</u> in collaboration with <u>Alamy, Getty Images</u>, and <u>Envato</u>. This is an alternative to the AI models already in existence that have been built on unlicensed content – instead it's designed to attribute and reward source material.



Adobe's Firefly: Ethical Generative Al to Revolutionize Content Creation



Roberto Cosentino · Follow 4 min read · Mar 21, 2023

Will Al-generated images rank?



John Mueller (He/Him) • 1st Senior Search Analyst / Search Relations team lead 2mo • 🕲

I'm curious about your thoughts - is the use of AI-generated images on (non-art or AI-focused) websites equivalent to the use of stock photography?

My thinking (#showerthought) is if you care about a specific photo ("here's the suitcase we want to sell you"), you'll want to use a real photo. Real doesn't mean it's not digitally processed / cleaned / recolored / background removed with Al, but the basis is real, and it's meant to give the user a feel for something real.

On the other hand, if you just want to decorate your content, there's no real difference between stock photography / stock images and something initially Algenerated. They can be pleasing to the eye, make reading easier & more entertaining, but ultimately they're decoration.

Perhaps this is also a matter of the topic of the page. For some topics, people expect real images, and for others - perhaps most topics?, they don't mind either way. And to tie it over to SEO, my suspicion is that people are more likely to search visually for topics where they care about real images ("I want a small red suitcase, what are the options"), and not for pages that aren't expected to have real images.

So if you're wondering whether you should use Al-generated images on a page, it might be useful to ask yourself if you would use stock photography / imagery there.

Disclaimers: If you just want to save time & money by using your own Al-generated images, keep in mind that it's also easy to take a quick snapshot with your phone and call t "stock photography" -- it might not be as professional as you'd want on a business website though; making good things takes time & experience. None of this is SEO advice, there's no "ranking update" to pull from this post.

#ai #midjourney #dalle #seo #photos #stockoptions #websitedesign

COR Zack Notes and 523 others

113 comments • 26 reposts

Post

Roxana Stingu @RoxanaStingu

This is what I've been saying all this time - no need to fear stock (or now AI generated) images - you can't rank your own photos either if used out of context.

Thank you @JohnMu for touching on this subject.

searchenginejournal.com/beyond-seo-joh...

🚱 Roxana Stingu @RoxanaStingu · Nov 17, 2023

This was a very important discussion for me that @Giridja made possible.

I don't think stock photos are great for SEO because I work for Alamy, I work for Alamy because I think stock photos can enrich any experience, SEO included. x.com/Giridja/status...

6:07 PM · Jan 9, 2024 · 260 Views



@roxanastingu | March 2024 | alamy

...

04

What the future holds



No one knows what the future holds



Garrett Sussman 🥗 🔎

WTF? @RoxanaStingu literally predicts Google two years in a row.

Stop it with this magic!

Do you work for Google? Lottery numbers?

Ridiculous.

ipullrank.com/boring-generat...



WEBSITE: Alamy

🔽 @RoxanaStingu

2024 CONTENT AND SEO GENERATIVE AI PREDICTION

Following in Bing's footsteps, Google will also add text-to-image functionality in search through its Imagen model, as already announced.

Further to this, they might use it as part of search, Instead of writing the query and seeing which images match, we migth have the option to describe the image we want, have AI generate it and then use that to search for visually similar images. A combo of generative AI and Google Lens if you will.

@roxanastingu | March 2024 | alamy

...



No, I can't guess the lottery numbers

Google





WEBSITE: Alamy

🔽 @RoxanaStingu

2024 CONTENT AND SEO GENERATIVE AI PREDICTION

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I'm also expecting Google to create a series of image enhanecement tools that will be free for Google users, ahem, as *free* as things are with Google in general (ads).



< > i ×



a photorealistic image of a capybara wearing a chefs hat and cooking breakfast in a forest, grilling bacon





My ridiculous prediction

ROXANA STINGU



WEBSITE: Alamy

🔽 @RoxanaStingu

SIDICULOUS, OUT-OF-THE-BOX, SUPER-RANDOM GENERATIVE AI 2024 PREDICTION

Upon introducing text-to-image functionality in Image Search, Google will try to monetise it by adding advertisements within the generated images.

When users search for an image based on a text description, Google will display relevant advertisements that are visually integrated into the generated image. For example, if a user searches for a "red sports car," Google can overlay an ad for a local car dealership or related automotive products directly onto the image.









MEET OUR TEAM



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HILDA MILLER Q.C Barrister

GARY WEBB



https://thispersondoesnotexist.com/

Provenance

Google DeepMind







Provenance

ARTIFICIAL INTELLIGENCE / TECH / OPENAI

OpenAl is adding new watermarks to DALL-E 3



/ OpenAl says watermarks in image metadata are not perfect, but they help build trust of digital information.

By Emilia David, a reporter who covers Al. Prior to joining The Verge, she covered the intersection between technology, finance, and the economy. Feb 6, 2024, 10:32 PM GMT



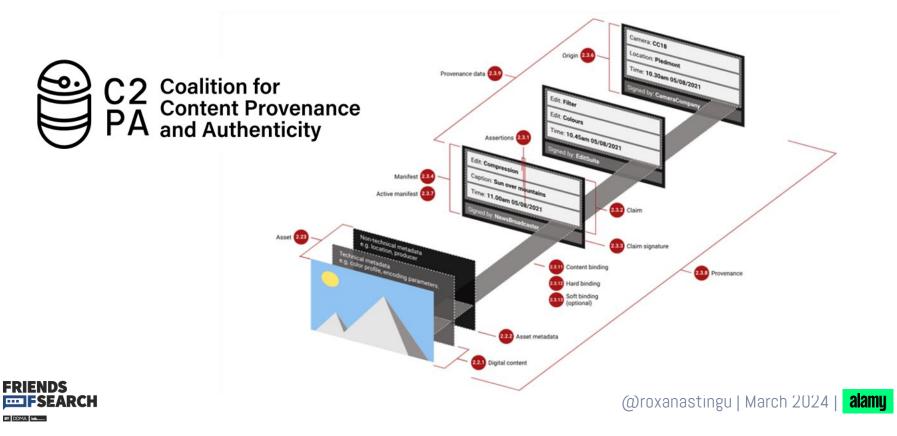
Meta to fight Al-generated fake news with 'invisible watermarks'

Meta will make use of a deep-learning model to apply watermarks to images generated with its Al tool, which would be invisible to the human eye.





One solution to rule them all?



Thank you!



