Vision forward

Tracing Image SEO from its roots to Al-enhanced horizons

Roxana STINGU

Head of Search and SEO @roxanastingu





Amsterdam 2024







Intro



Search fanatic



Tech SEO



Al enthusiast



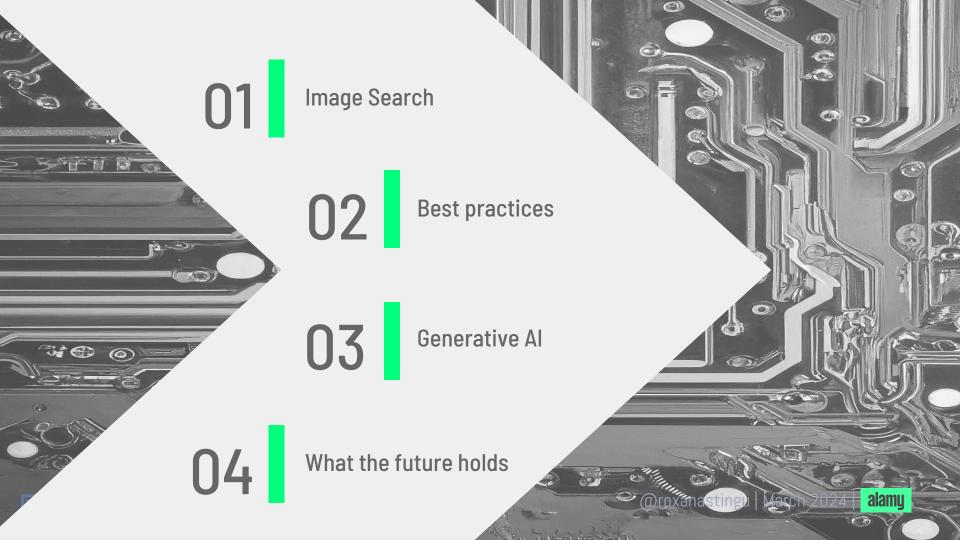


Image Search

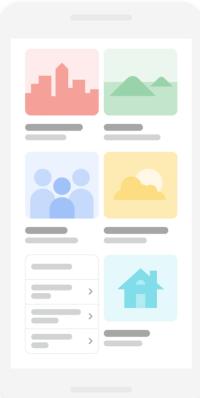
It all started with a green dress...











New search facet for lmages





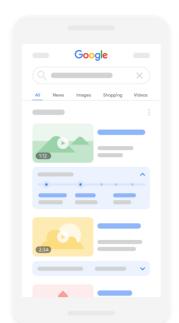


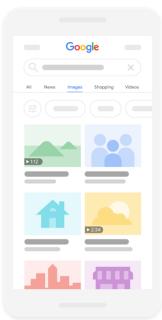
At first there were only JPEGS



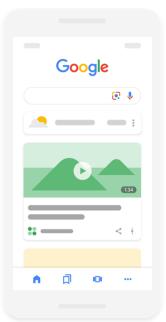


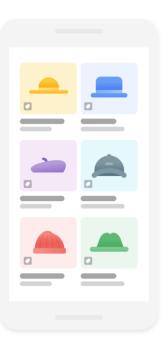
Images are everywhere









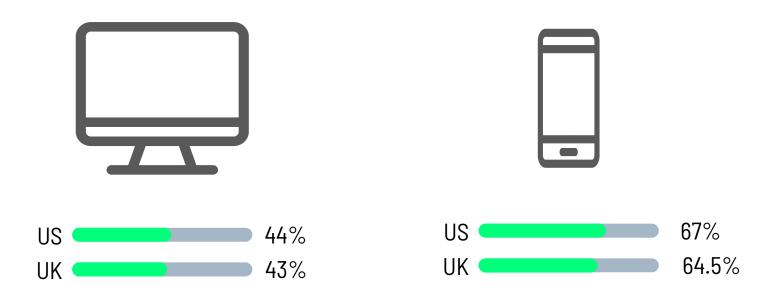






Images in Google Web Search

Data from SEMRush Sensor on March 10th, 2024

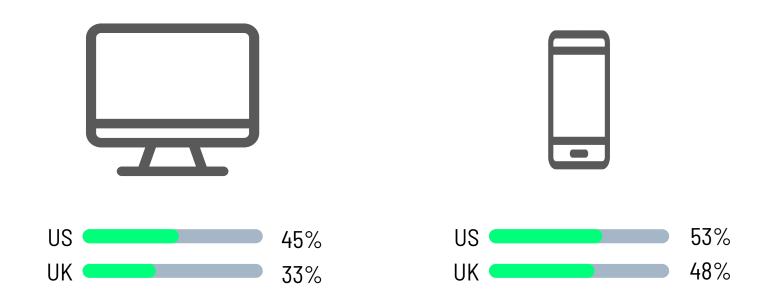






Images in Google Web Search

Data from SEMRush Sensor on May 2023

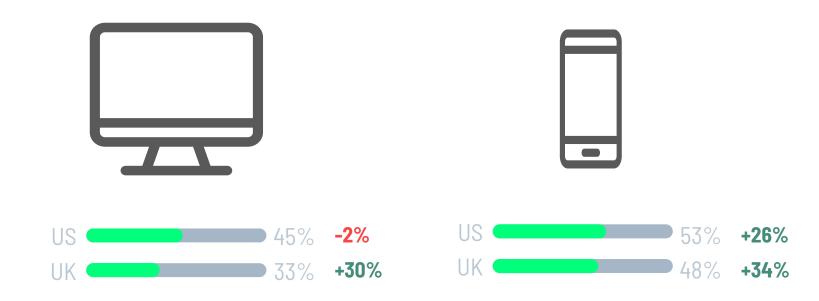






Images in Google Web Search

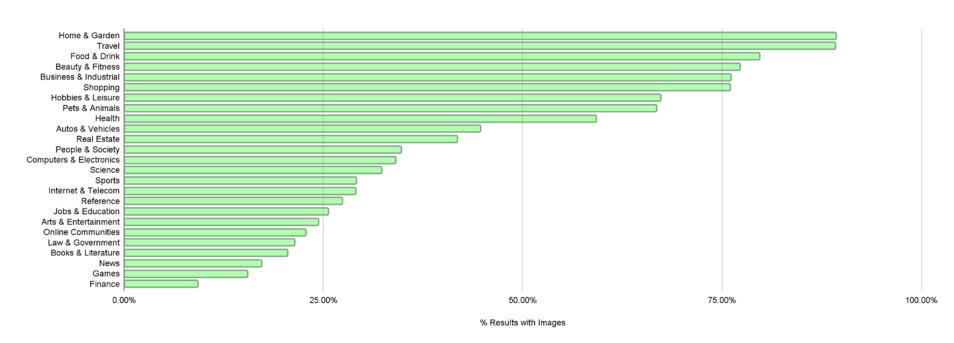
Change in 10 months





% of results with Images in Web Search

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



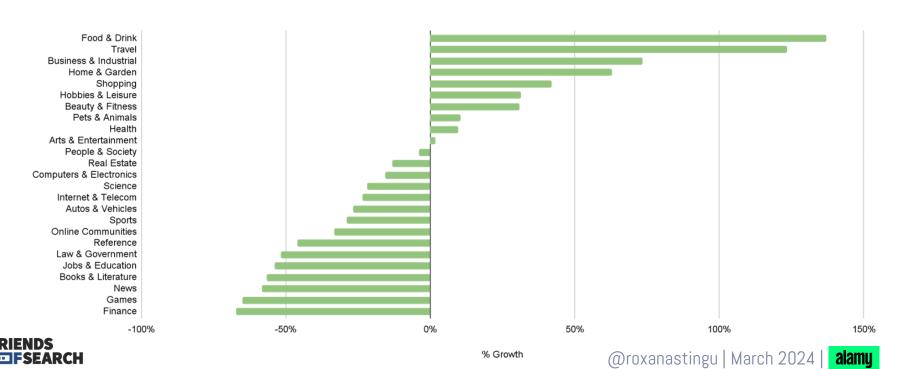






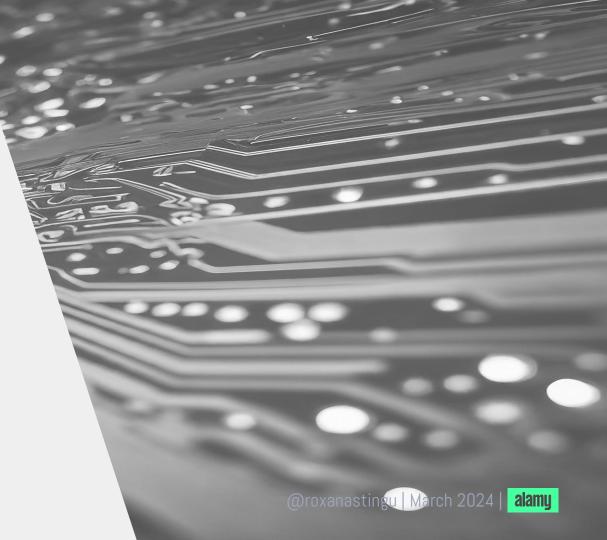
% growth by niche

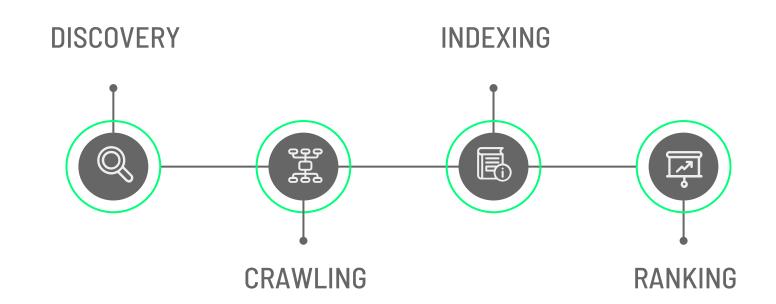
SEMRush Sensor data, US Desktop, March 10th, 2024 Compared to May 2023



BY DDMA iab....

Best Practices









DISCOVERY









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





HTML





alt="Succinct visual description of the image" /> <img src="image1.jpg"</pre>

<div>





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





HTML: Responsive and image formats



```
<picture><source>
         <picture>
             <source
                 srcset="image-small.png 320w, image-
         medium.png 800w,
         image-large.png 1200w"
                 sizes="(min-width: 60rem) 80vw,
                  (min-width: 40rem) 90vw, 100vw">
             <img src="image-large.png" alt="Succinct</pre>
         visual description of the image">
         </picture>
```





Lazy loading



Browser level







src="image.png"

loading="lazy" alt="Succinct visual description of the image">

Intersection observer







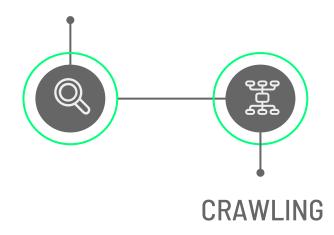


class="lazy"

src="image.png"

data-src="image.png" alt="Succinct visual description of the image">

DISCOVERY









The basics of crawling





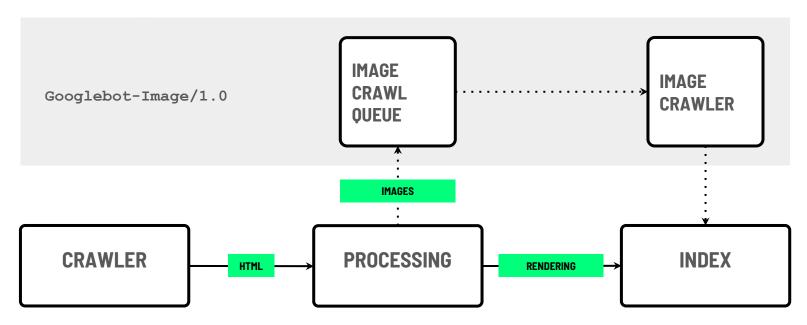






In comes Googlebot-Image





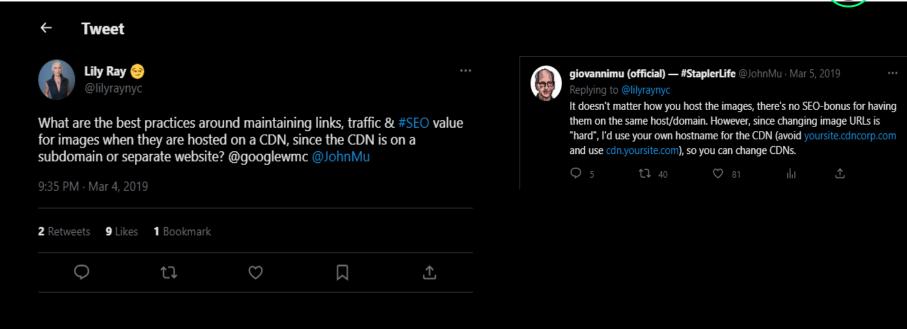






CDNs









CDNs + Redirects



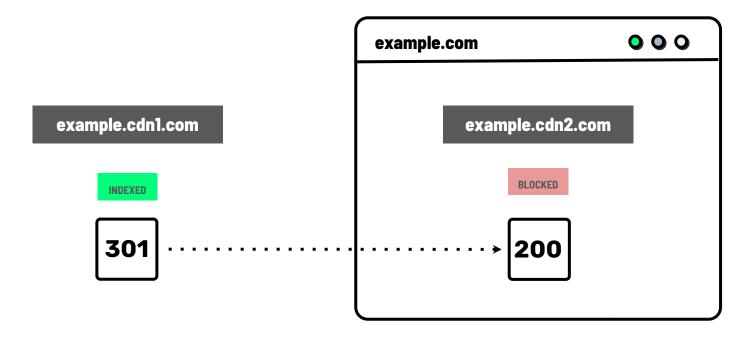
example.com	000
example.cdn1.com	
INDEXED	
200	





CDNs + Redirects









CDNs + Redirects



example.cdn1.com

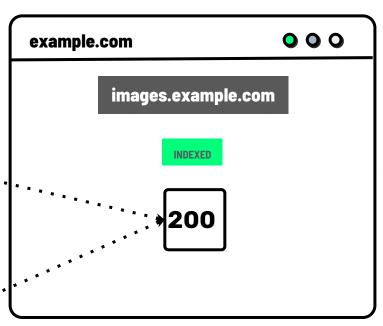
INDEXED

301

example.cdn2.com

BLOCKED

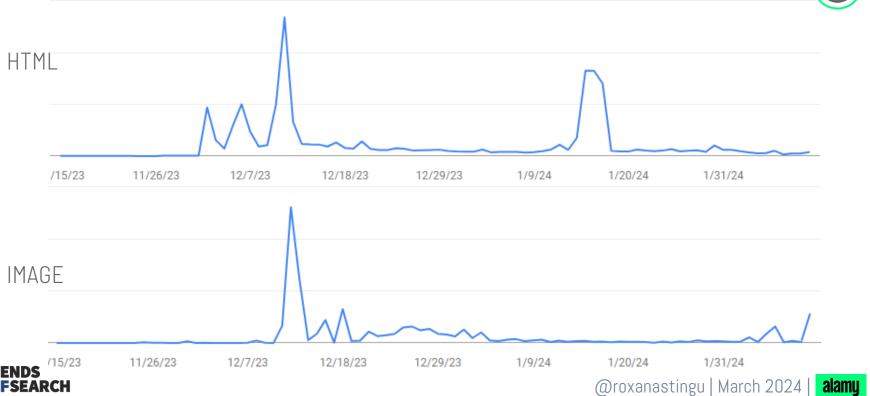
301



CRAWLING

Crawls by Filetype



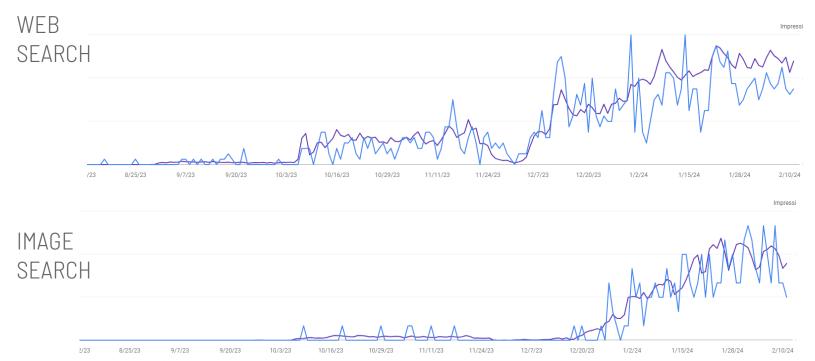


BY DDMA iab.....

CRAWLING

Expect delayed results in Image Search











Canonicalisation





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



For instance:



site.com/image-small.jpg



has a canonical header to:



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

However the website only uses the <code>image-small.jpg</code> and because of that, <code>image.jpg</code> was never read by Google and is not indexed (only <code>image-small.jpg</code> 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



1 Answer

Highest score (default)





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

2



Share Improve this answer Follow

answered Mar 28, 2017 at 19:36



John Mueller





Advice still stands*



answered Mar 28, 2017 at 19:36



John Mueller

7,441 • 1 • 20 • 26

*Last checked on January 15th, 2024



Blocking crawls to images



robots.txt





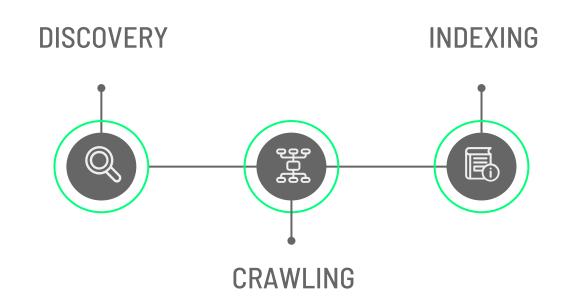
User-agent: Googlebot-Image

Disallow: /very-secret-images/













INDEXING

Indexable image formats















JPG

PNG

GIF

BMP

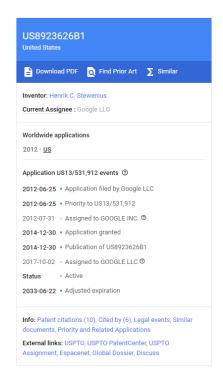
WEBP

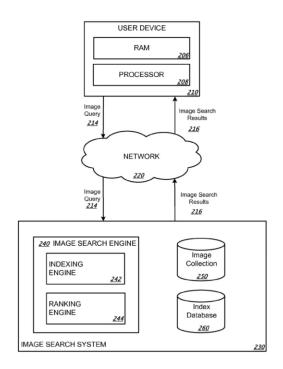
SVG





Image retrieval patent









Textual information





WEB DOCUMENT

Text around images
Alt attribute values
Image captions
Anchor texts
Metadata
File name

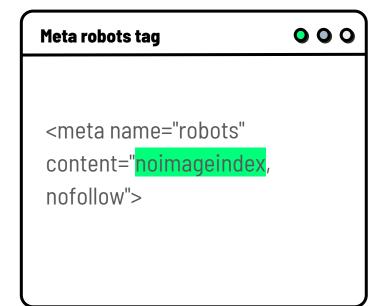


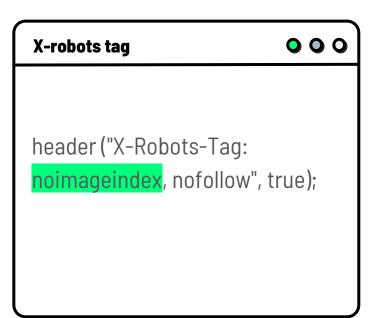




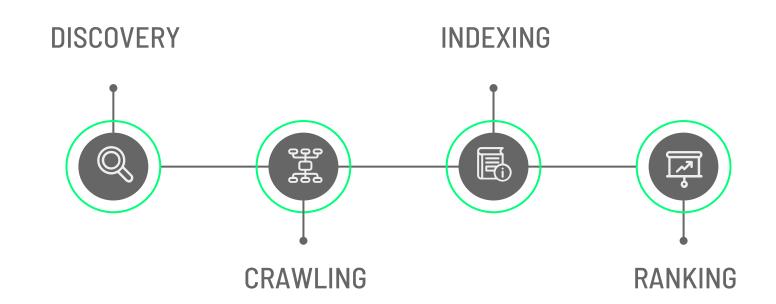
Keeping images out of the index















The basics of ranking for images







PAGE WITHOUT IMAGE



IMAGE WITHOUT PAGE

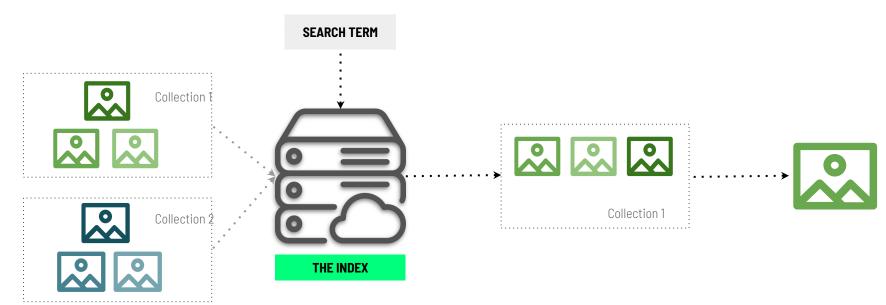




How images are ranked







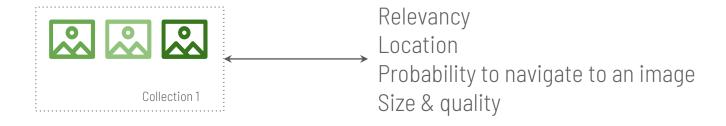






What can influence the order of images in a collection







What is image size?





File size

123 kb

Image resolution

1200px wide

Aspect ratio

16x9, 4x3, and 1x1





Control image previews



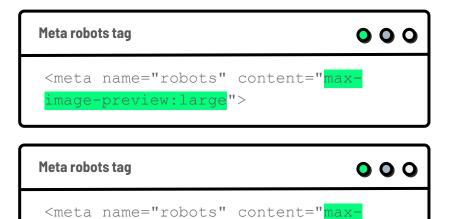
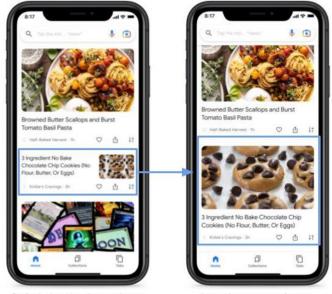


image-preview:none">



Default thumbnail experience

Large image experience



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





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



2017

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



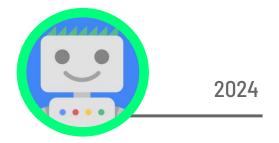
Does Google use EXIF?





2014

2017



"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



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.





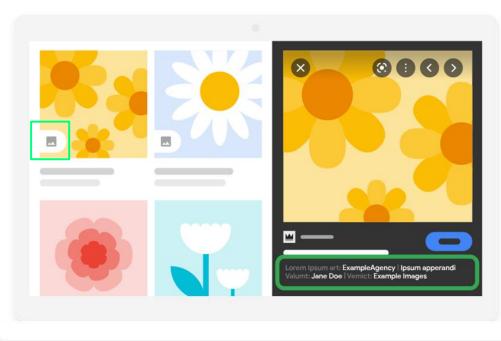
Visit

Licensable Badge



license

acquireLicensePage







Structured data v. IPTC

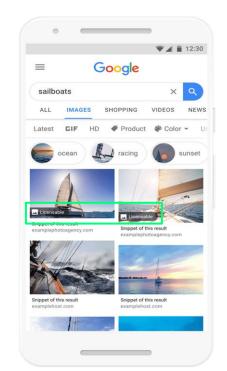




Structured data

Page specific

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







IPTC metadata

Image specific

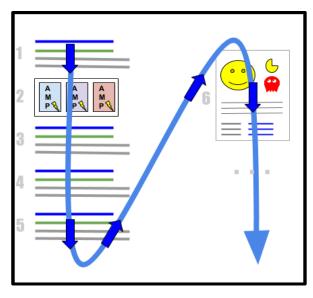
Creates rich snippets whenever the image shows up, no matter which page is ranking

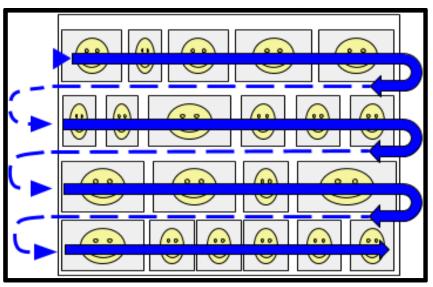




Web v. Image Search ranking







Web Search

Image Search



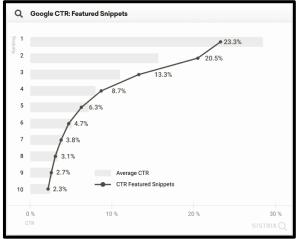


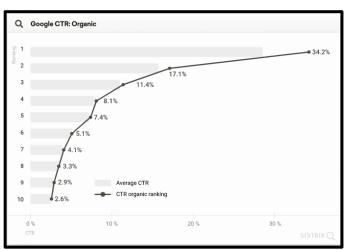
RANKING

Best position to rank for in Web Search









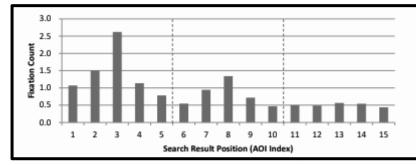
Web Search

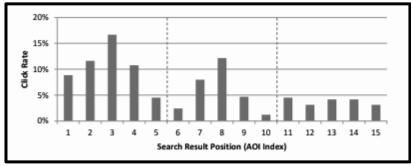




Eye tracking study for Image Search







































Spikes in impressions?





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





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	×	Space it occupies
lmage Pack	Clicking takes you to Image Search	/	×	Space it occupies
Image Thumbnails	Clicking takes you to the website		/	Space it occupies

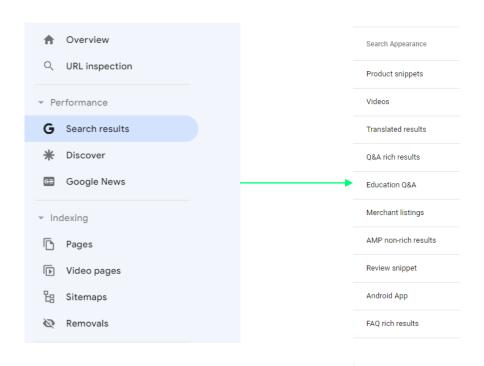




RANKING

Search Console Search Appearance

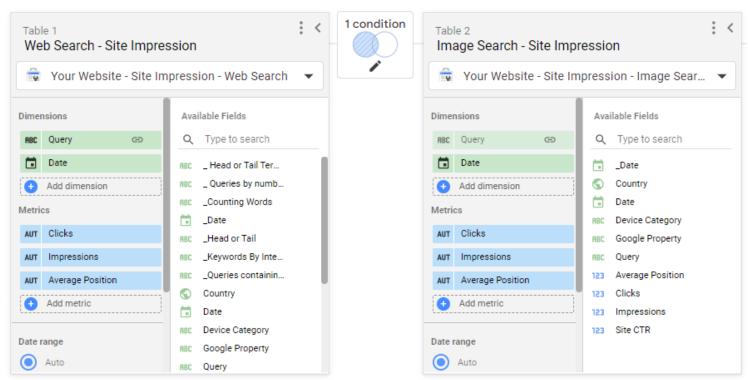








Get creative







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
```



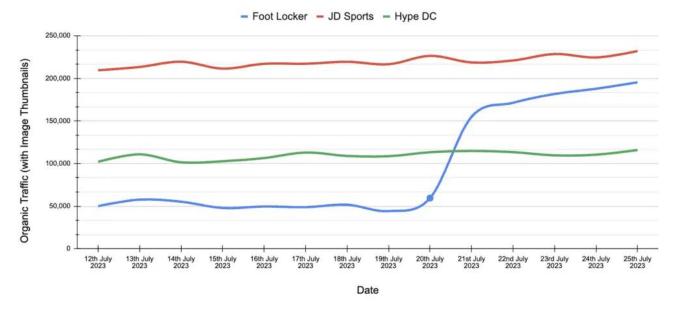


Are images worth the hassle?

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.









Is Al used for ranking?

RankBrain

Neural Matching

BERT

MUM







Is Al used for ranking in Image Search?

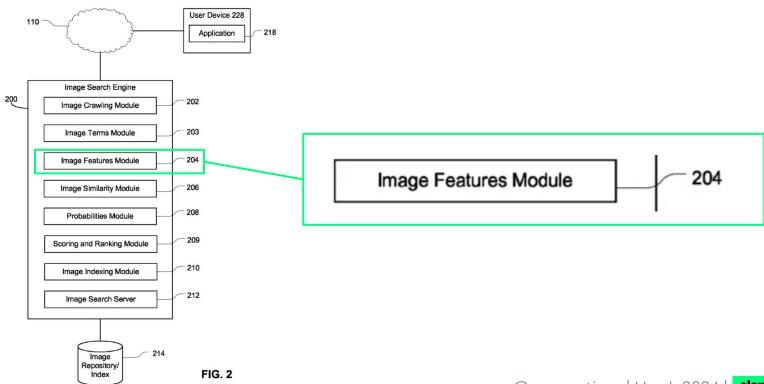






Image features

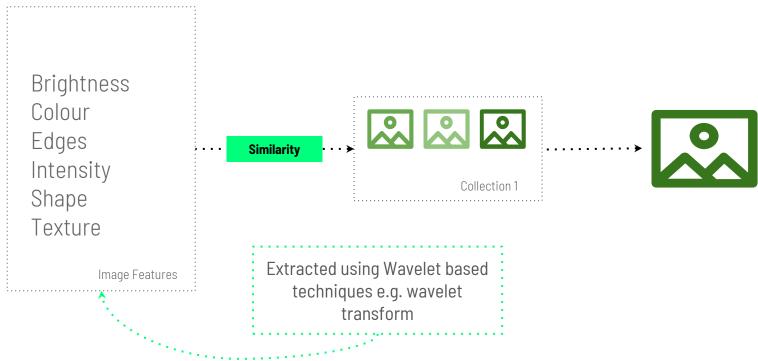




Image patents made easy



seobythesea.com



jcchouinard.com

Embeddings

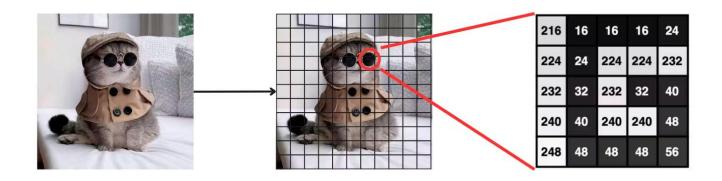
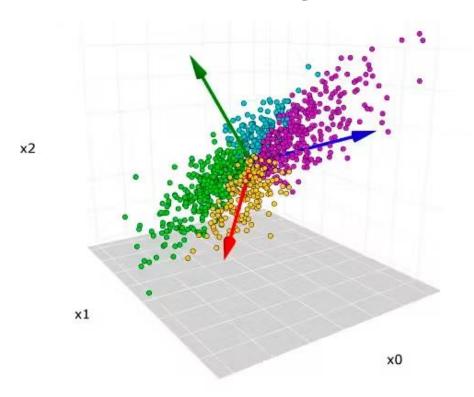


Image embeddings are numerical representations of images that capture their semantic meaning and visual features.





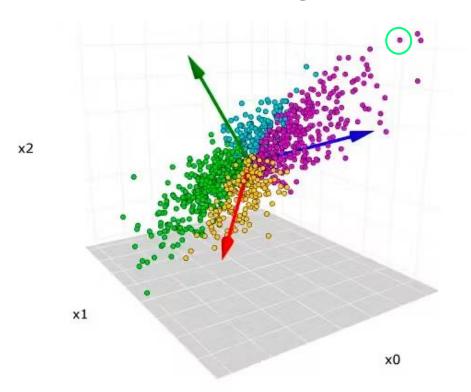
Embeddings





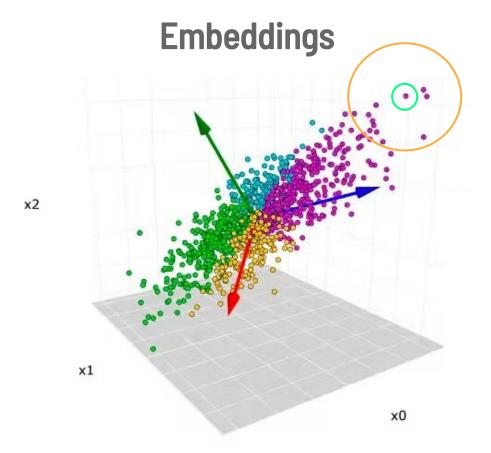


Embeddings

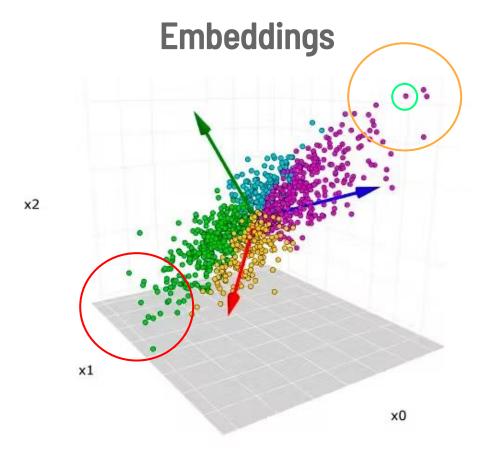








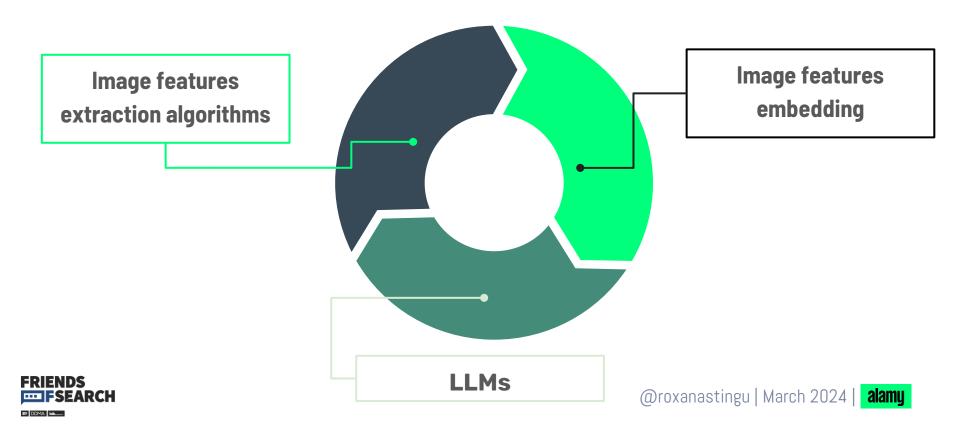




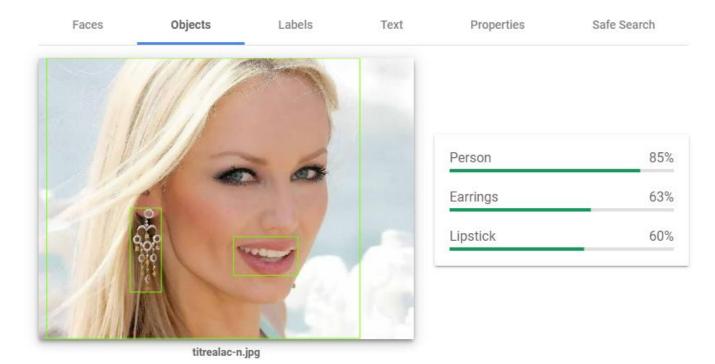




It's all about balance



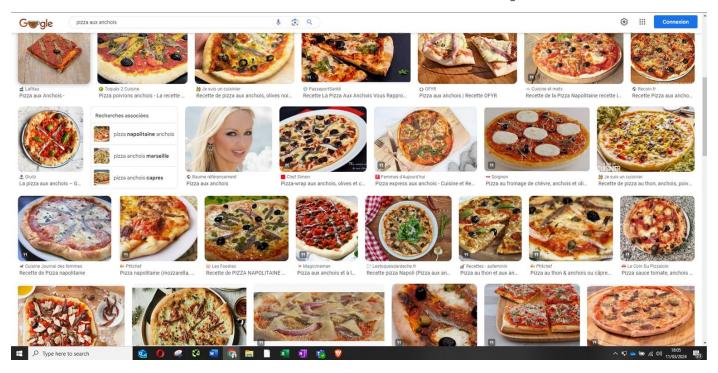
Google can detect details in images







Yet this woman is seen as pizza







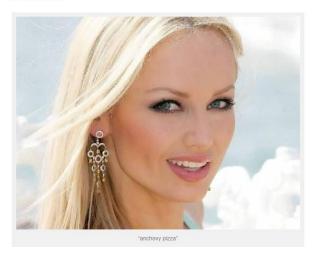
The greatest experiment

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.



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:

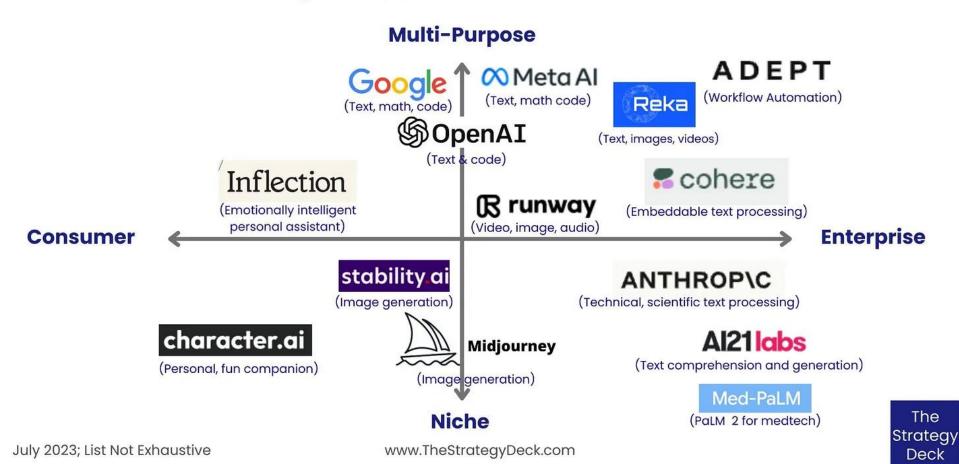
- tomatoes.
- anchovies (necessarily huh!)
- Garlic.
- pepper salt,
- a little olive oil







Gen Al Companies with Foundational Models

















Getty Images sues Al 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



UK Copyright in Al-Generated Artwork - Strachan IP







Litigation | Copyright | Technology | Intellectual Property | Litigation

Al-generated art cannot receive

copyrights, US court says By Blake Brittain

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



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



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

Netherlands: Generative Al And Copyright: The Story So Far







Ethical foundation models

Shutterstock expands deal with OpenAI to build generative AI 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 'The Fair Diffusion Program' - a ground-breaking generative AI initiative launched by BRIA AI in collaboration with Alamy, Getty Images, and Envato. 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







Will Al-generated images rank?



I'm curious about your thoughts - is the use of Al-generated images on (non-art or Al-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

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 it "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

COM 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





...

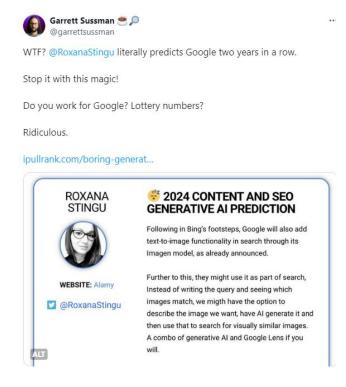


What the future holds



No one knows what the future holds









No, I can't guess the lottery numbers

ROXANA STINGU



WEBSITE: Alamy

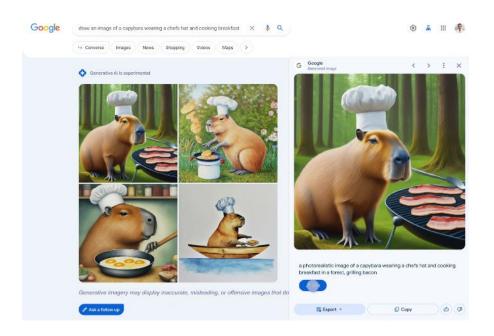


© 2024 CONTENT AND SEO GENERATIVE AI PREDICTION

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.

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







My ridiculous prediction

ROXANA STINGU



WEBSITE: Alamy

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⊘ RIDICULOUS, 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



ARNOLD DONALD Q.C

AARON COOK Q.C

Barrister

HILDA MILLER Q.C

Barrister

GARY WEBB

Barrister



Provenance

Google DeepMind SynthID







Provenance

ARTIFICIAL INTELLIGENCE / TECH / OPENAI

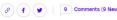
OpenAI is adding new watermarks to DALL-E 3



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

By Emilla 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 GM



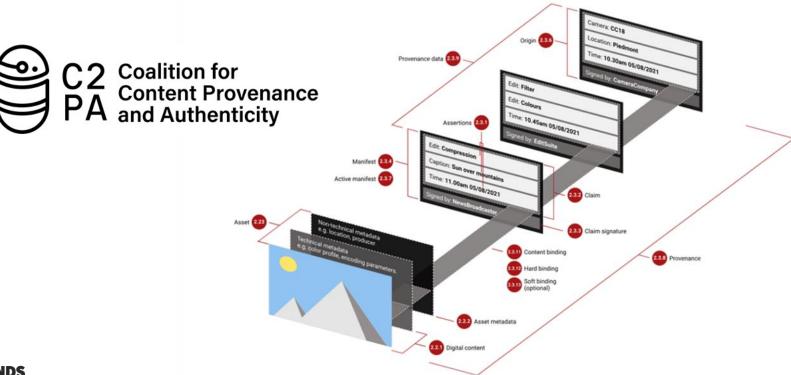
Meta to fight Al-generated fake news with 'invisible watermarks'

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!



