
Hubble capture une paire de galaxies en interaction

Keywords

Hits 801

URL <https://www.nasa.gov/image-feature/goddard/2022/hubble-snaps-a-pair-of-interacting-galaxies>

Les deux galaxies en interaction formant la paire connue sous le nom d'Arp-Madore 608-333 semblent flotter côte à côte sur cette image du télescope spatial Hubble de la NASA/ESA. Bien qu'ils semblent sereins et imperturbables, les deux se déforment subtilement par une interaction gravitationnelle mutuelle qui perturbe et déforme les deux galaxies. La caméra avancée de Hubble pour les sondages a capturé cette interaction galactique prolongée.

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Les galaxies en interaction dans Arp-Madore 608-333 font partie d'un effort visant à constituer une archive de cibles intéressantes pour une étude future plus détaillée avec Hubble, des télescopes au sol et le télescope spatial NASA/ESA/CSA James Webb. Pour constituer ces archives, les astronomes ont parcouru les catalogues astronomiques existants à la recherche d'une liste de cibles réparties dans le ciel nocturne. Ils espéraient inclure des objets déjà identifiés comme intéressants et qu'il serait facile pour Hubble d'observer quelle que soit la direction dans laquelle ils pointaient.

Décider comment attribuer le temps d'observation à Hubble est un processus long, compétitif et difficile, et les observations sont allouées pour utiliser chaque dernière seconde du temps Hubble disponible. Cependant, il y a une petite mais persistante fraction de temps – environ 2 à 3 % – qui reste inutilisée lorsque Hubble se tourne vers de nouvelles cibles. Des programmes instantanés, comme celui qui a capturé Arp-Madore 608-333, existent pour combler cette lacune et tirer parti des moments entre les observations plus longues. Les programmes d'instantanés ne produisent pas seulement de belles images, ils permettent aux astronomes de collecter autant de données que possible avec Hubble.

Crédit texte : Agence spatiale européenne (ESA)

Crédit image : ESA/Hubble & NASA, Dark Energy Survey/Department of Energy/Fermilab/Dark Energy Camera (DECam)/Cerro Tololo Inter-American Observatory/NOIRLab/AURA

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Digital marketing refers to any marketing activity that uses digital channels to promote a product, service, or brand. Digital channels include search engines, social media platforms, email, mobile apps, websites, and other digital media. Digital marketing is important because more and more people are spending time online, and businesses need to reach their target audience where they are spending their time.

These are just a few examples of digital marketing strategies. The key to a successful digital marketing campaign is to identify your target audience, select the right channels, create valuable content, and track and measure your results to continually improve your strategy.

SEO

SEO, or search engine optimization, is a digital marketing strategy that involves optimizing your website and its content to rank higher in search engine results pages (SERPs) and drive more organic traffic to your site. The goal of SEO is to make it easier for search engines like Google to understand what your website is about and to provide valuable and relevant content to users who are searching for information related to your business or industry.

SEO is an ongoing process that requires continuous monitoring, tracking, and optimization to achieve and maintain high search engine rankings. It's also important to keep up-to-date with the latest SEO best practices and algorithm updates to ensure that your website stays ahead of the competition.

PPC, or pay-per-click advertising

PPC, or pay-per-click advertising, is a digital marketing strategy that involves placing ads on search engine results pages (SERPs) or social media platforms and paying for each click on the ad. PPC ads are typically shown at the top or bottom of search engine results pages, or within social media feeds, and they are marked as ads to differentiate them from organic search results.

PPC advertising works on an auction system, where advertisers bid on the keywords and phrases they want to target, and the ad platform (such as Google Ads or Facebook Ads) selects the winning ad to display based on a variety of factors, including bid amount, ad quality, relevance, and other factors.



PPC ads can be highly targeted, allowing businesses to reach specific audiences based on demographics, interests, behaviors, and other factors. They can also be optimized for specific goals, such as driving website traffic, generating leads, or increasing sales.

PPC advertising can be complex and requires ongoing monitoring and optimization to achieve the best results. It's important to have a clear strategy, set realistic goals, and continually test and refine your campaigns to ensure they are delivering the best possible results.

Social media marketing

Social media marketing is a digital marketing strategy that involves using social media platforms like Facebook, Instagram, Twitter, LinkedIn, and others to build brand awareness, engage with customers, and drive traffic to your website.

Social media marketing typically involves creating and sharing content, such as images, videos, and text-based posts, that are designed to engage and entertain your audience, promote your products or services, and build brand loyalty. Social media marketing also involves interacting with your followers and responding to their comments and messages.

To be successful in social media marketing, it's important to have a clear strategy, set measurable goals, and consistently create and share high-quality content that resonates with your target audience. It's also important to track and measure your results and continually refine your approach to ensure you are achieving the best possible outcomes.

Email marketing

Email marketing is a digital marketing strategy that involves sending targeted emails to your subscribers or customers to promote your products or services, build relationships, and drive conversions. Email marketing can take many forms, including newsletters, promotional emails, product updates, and more.

To be successful in email marketing, it's important to have a clear strategy and set measurable goals. This involves building a quality email list of subscribers who have opted-in to receive emails from your business, creating engaging content that resonates with your audience, and consistently testing and optimizing your campaigns to achieve the best results.



It's also important to comply with email marketing regulations, such as the CAN-SPAM Act, by including clear opt-out links and contact information in your emails and avoiding misleading or spammy messaging.

Content marketing

Content marketing is a digital marketing strategy that involves creating and sharing valuable, relevant, and consistent content to attract and retain a clearly defined audience, with the goal of driving profitable customer action.

Content marketing can take many forms, including blog posts, videos, infographics, podcasts, social media posts, and more. The key is to create content that provides value to your target audience and aligns with your business objectives.

To be successful in content marketing, it's important to have a clear strategy and set measurable goals. This involves identifying your target audience, understanding their needs and interests, and creating content that aligns with their preferences and expectations.

It's also important to consistently create and share high-quality content that is optimized for search engines and promoted through social media and other channels. This involves creating a content calendar, conducting keyword research, and leveraging analytics and other tools to track and measure your results and continually refine your approach.

Affiliate marketing

Affiliate marketing is a digital marketing strategy where a business partners with an affiliate or publisher to promote its products or services in exchange for a commission on sales or leads generated through the affiliate's efforts. This means that the affiliate promotes the business's products or services on their website or other digital channels and earns a commission for each sale or lead that they refer.

To be successful in affiliate marketing, it's important to choose the right affiliates and build strong relationships with them. This involves identifying affiliates who are a good fit for your business and who have an audience that aligns with your target market.

It's also important to provide affiliates with high-quality promotional materials, such as banner ads and product descriptions, and to track and measure the results of your affiliate marketing campaigns to continually refine your approach and optimize your results. Additionally, it's important to comply with relevant laws and regulations, such as the Federal Trade Commission's guidelines on endorsements and testimonials.

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