

**SPLASH  
ARTICLE 1  
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**SPLASH  
ARTICLE 2  
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**SPLASH 3  
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ARTICLE  
HERE**

# FLASH



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# BLACK CAT ALLEY

Milwaukee's ever-evolving outdoor gallery

by  
Story Resource ChatGPT  
&  
[www.blackcatmke.com](http://www.blackcatmke.com)



Photo Credits: Angela Christenson

Milwaukee's Black Cat Alley isn't just a hidden passage behind the city's East Side—it's an outdoor art gallery that pulses with color, creativity, and community energy. Installed in what was once an unused alley, this vibrant mural destination now showcases 21 large-scale murals by 24 artists from around the globe, transforming brick walls into bold statements of identity, style, and cultural expression.

The project began in 2015–2016 through a

collaboration between community members, artists, Wallpapered City LLC, and the East Side Business Improvement District. Their goal was simple but ambitious: take a once overlooked alleyway and turn it into a celebrated public art space that invites residents and visitors alike to slow down, look up, and discover something new at every turn. Today, Black Cat Alley is a must-visit destination for mural lovers across Milwaukee and beyond, drawing photographers, art enthusiasts,

and creators who come to explore its eclectic mix of styles and voices.

More than just painted walls, Black Cat Alley reflects the city's growing cultural landscape, adding foot traffic and vibrancy to the surrounding neighborhood. New murals are added regularly through community calls for artists, ensuring the space stays dynamic and inclusive. Managed by the East Side BID, the alley also hosts events and collaborations with local busi-

nesses, reinforcing its role as a living, evolving heart of Milwaukee's arts scene.

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PRO 3

BEST  
BUY

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STARTING - \$999.00

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(M5 POWER REFRESH)

TARGET

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YOUR

WORKFLOW

Apple M5

\$3,499.99

APPLE VISION PRO

V.2

(M5 POWER RE-

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RESH)

BEST  
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## Exploring Surrealism in Graphic Design: Unleashing Imagination

In the realm of graphic design, creativity, and innovation stand as paramount pillars that shape the visual landscape of our world. One particular style that has continually pushed the boundaries of imagination is Surrealism. With its origins in the early 20th century as an art movement, Surrealism has not only transformed painting and literature but has also made a profound impact on the world of graphic design. Surrealist graphic design embodies an ethereal and dreamlike quality, challenging conventional norms and allowing designers to unleash their imaginations in unparalleled ways. In this article, we will take an in-depth journey into the fascinating world of Surrealism in graphic design, understanding its roots, principles, and the profound impact it has on contemporary design trends.

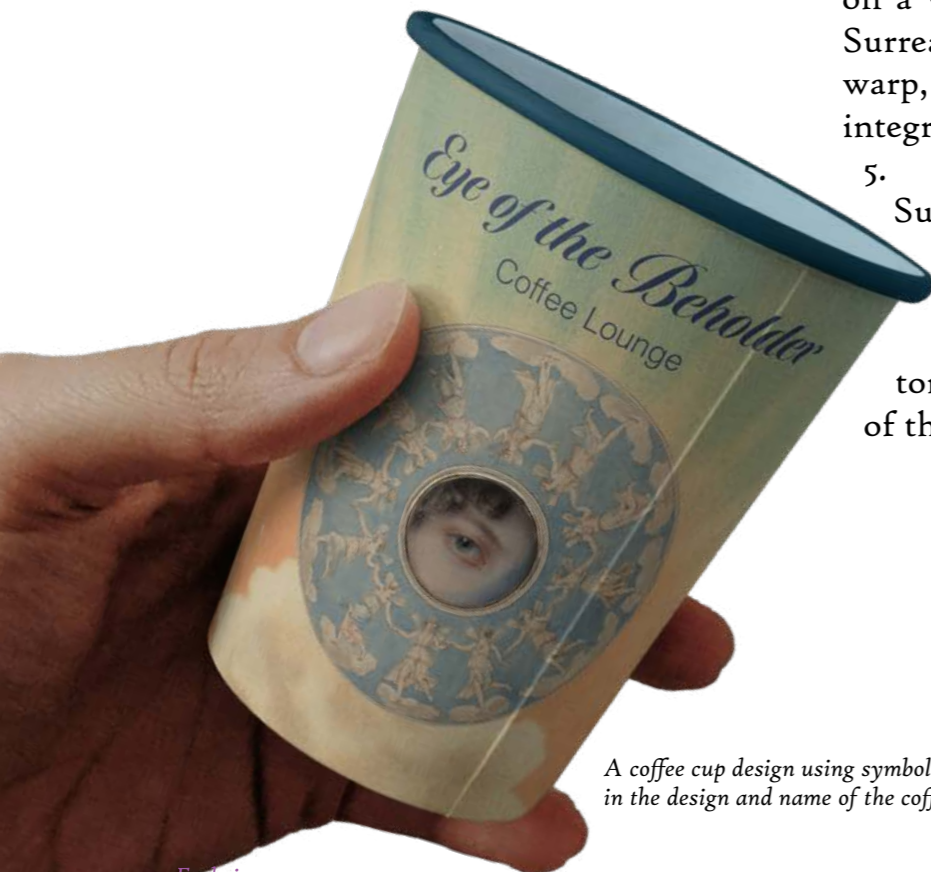
### *Understanding Surrealism: A Dive into the Origins*

Surrealism, as an artistic movement, was officially founded in the 1920s by the poet André Breton. The Surrealist artists sought to tap into the subconscious mind, explore the world of dreams, and liberate the imagination from the constraints of rational thinking. This movement embraced the power of unexpected juxtapositions, where the familiar was combined with the unusual, and the rational intertwined with the absurd. These elements were used to create art that evoked emotions, challenged perceptions, and encouraged viewers to interpret the artwork in their unique ways.

## Surrealism Meets Graphic Design: A Perfect Union

The evolution of Surrealism from traditional art to graphic design was a natural transition, driven by the need to communicate ideas and concepts in a visually striking manner. Graphic designers, like Salvador Dalí and Max Ernst, were quick to embrace the Surrealist movement, exploring its principles to craft evocative designs.

In Surrealist graphic design, imagination takes center stage, where designers can defy the constraints of reality and traditional design norms. This liberation allows for the creation of visually arresting compositions that leave a lasting impact on the audience. The fusion of unexpected elements, abstract forms, and dreamlike scenarios creates a world that is both captivating and bewildering, inviting viewers to immerse themselves in the surreal experience.



A coffee cup design using symbolism both in the design and name of the coffee lounge.

## The Principles of Surrealist Graphic Design

1. Dreamlike Compositions: Surrealist graphic design relies on dream-inspired compositions that blur the lines between reality and imagination. Designs often feature floating objects, metamorphosing elements, and fantastical landscapes that transport viewers to alternate realms.

2. Symbolism and Metaphors: Surrealism in graphic design leverages symbolism and metaphors to convey deeper meanings and emotions. Each element used holds significance, and viewers are encouraged to decode the hidden messages, fostering a profound connection with the artwork.

3. Visual Collage: Collage techniques play a significant role in Surrealist graphic design. Disparate elements are juxtaposed in harmony, presenting a visual feast that sparks curiosity and contemplation.

4. Playful Typography: Typography takes on a whimsical and experimental form in Surrealist graphic design. Text may bend, warp, or flow into the design, becoming an integral part of the visual narrative.

5. Unconventional Color Schemes: Surrealism encourages the use of unconventional color combinations that evoke emotions and alter perceptions. Vivid hues and ethereal tones contribute to the dreamlike quality of the designs.

## Unleashing Imagination: Surrealism's Impact on Contemporary Design

As technology advances, Surrealist graphic design finds new avenues of expression in the digital realm. Contemporary designers are increasingly drawn to this style, recognizing its ability to break free from the ordinary and deliver extraordinary experiences to their audiences. Surrealism

empowers designers to think beyond the constraints of practicality and tap into the deepest recesses of their creativity.

Today, we see Surrealist influences in branding, advertising, web design, and even user interfaces. Brands seeking to make a memorable impact often turn to surreal visuals to stand out from the competition and leave a lasting impression on consumers.

In conclusion, Surrealism in graphic



A perfume design using playful typography and unconventional color scheme.

design is a mesmerizing journey into the depths of imagination. It is a style that pushes boundaries, challenges norms, and invites audiences to explore the extraordinary. Surrealist graphic design has left an indelible mark on the creative world, and its influence continues to inspire contemporary designers to unleash

their imagination and create designs that captivate and enchant.



---

*glass haus*

---

A women-led publication exploring the relationship between design, culture, and identity

# AI

## PROS AND CONS OF AI IN GRAPHIC DESIGN

article writte by Gemeni AI

The integration of Artificial Intelligence (AI) into graphic design workflows presents a powerful shift, offering professionals both transformative tools for efficiency and significant ethical and economic challenges. The consensus among designers is that AI will augment, not replace, human creativity, but this transition requires adaptation.

### The Pros: Efficiency, Exploration, and Accessibility

AI's primary benefits revolve around boosting speed, minimizing tedious work, and democratizing design capabilities.

#### Increased Efficiency and Focus

AI excels at automating repetitive and time-consuming tasks, such as image re-sizing for multiple platforms, background removal, color correction, and generating layout variations. Tools like Generative Fill in image editors can complete complex edits in seconds. This automation significantly speeds up the design process, allowing human designers to dedicate more time to high-level, strategic thinking, conceptualization, client communication, and overall creative direction rather than "grunt work."

### Enhanced Creative Exploration and Brainstorming

Generative AI tools (like Midjourney or DALL-E) act as an instant creative partner, helping designers overcome creative blocks and explore ideas rapidly. By inputting text



Since this was created by ai this can't be copyrighted.



This was Katelyn Totmans original drawing. A made up character based on her cousin Abby.

◀ This is the Funko Pop that Gemini created when this description was put in: "Make an image of a Funko Pop girl with brown hair, cherry red tips, and blue eyes with a comfy beige outfit."



This is the character "Cher Bear" created by Katelyn Totman, based on the original drawing she created. This can be copyrighted.



this is the character created into a funko pop by Katelyn Totman

prompts, designers can visualize countless concepts, color palettes, and stylistic variations in minutes, providing a robust starting point for mood boards and client pitches. This enables effective experimentation and pushes the boundaries of what is visually possible, fostering innovation in design.

### Democratization and Cost Reduction

AI makes professional-quality design more accessible to non-designers, small businesses, and startups with limited budgets. Tools can quickly generate logos, templates, and basic marketing materials, lowering the barrier to entry for visual communication. For agencies and freelancers, AI integration can lead to cost reduction by streamlining production, allowing them to deliver faster turnarounds and manage more projects with the same resources.

### The Cons: Ethical Risks and Quality Concerns

The rapid development of AI has created significant friction concerning ownership, job security, and the nature of design quality.

### Job Security and Commoditization

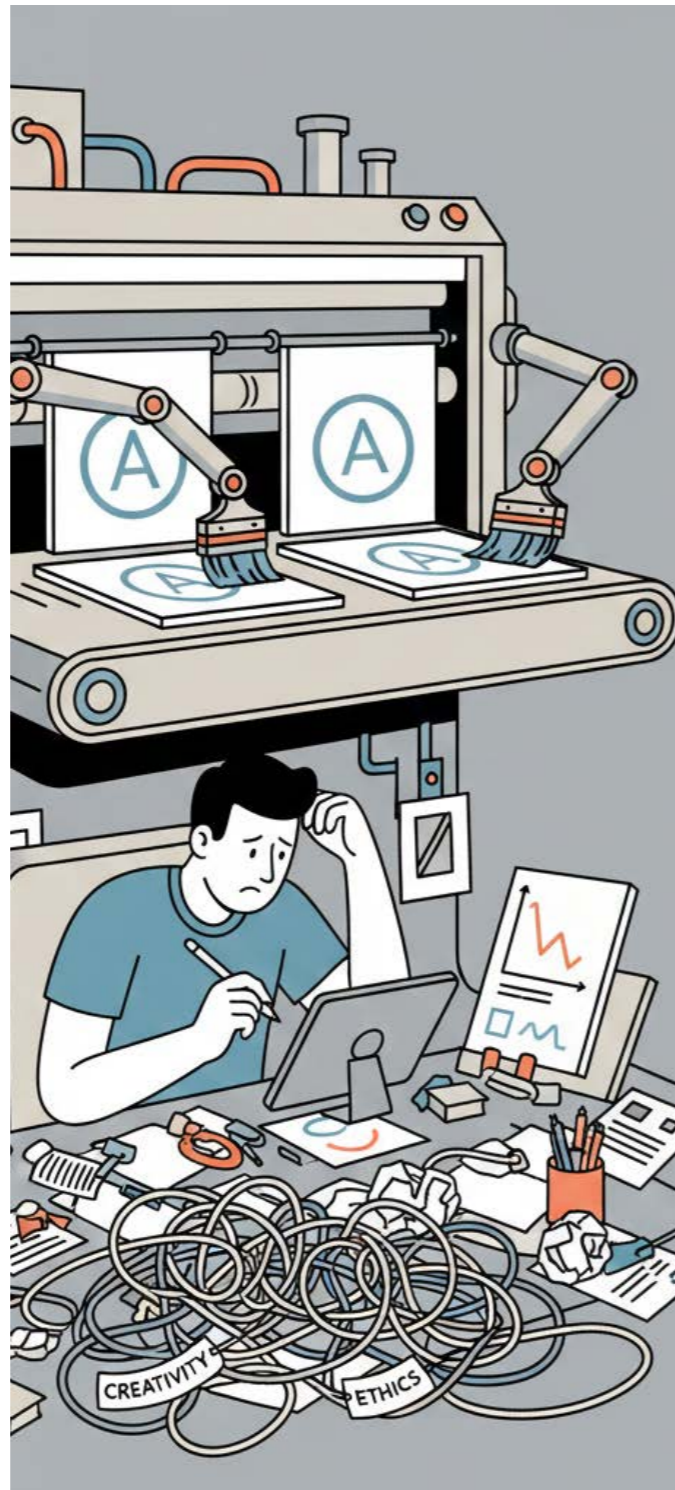
The ability of AI to rapidly produce high-quality, inexpensive visuals poses a threat to the job security of entry-level designers, illustrators, and retouchers. There is a real concern that AI will commoditize design, driving down prices and leading companies to rely on automated output rather than hiring human professionals. This shift pressures designers to upskill and focus on specialized skills that AI cannot replicate, such as strategic branding, storytelling, and nuanced client management.

### Intellectual Property and Bias

A major ethical hurdle is the intellectual property (IP) and copyright status of AI-generated work. AI models are trained on massive datasets of existing images, often without the consent or compensation of the original creators, leading to legal disputes over ownership and potential plagiarism. Furthermore, AI-generated content can lack the “human touch” or the originality that defines unique brand identity, sometimes producing generic or biased designs that reinforce harmful stereotypes present in the training data.

### Over-Reliance and Loss of Foundational Skills

Relying too heavily on AI for foundational tasks like sketching, composition, or color theory can lead to a decline in essential human design skills. Designers may become overly dependent on the tool’s suggestions, reducing their innate critical thinking and problem-solving abilities. If AI is viewed as a replacement for the creative process rather than an augmentative tool, the resulting work risks becoming soulless and technically proficient but lacking in emotional depth and strategic intent.



JOLO PRESENTS:

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TACO BELL BY DAY, CHERRY GRENADES BY NIGHT, LOVE TO  
HIT STARBUCKS AND HAVE A FRUITY REFRESHING DRINK!**

# SEEING BEYOND THE LENS:

## How Photography and Videography Shape Modern Visual Design

Article Generated by  
Chat GPT

In an age where visual communication defines how we experience the world, photography and videography have evolved far beyond their origins as simple tools of documentation. They now sit at the center of graphic design—drivers of narrative, mood, identity, and even brand philosophy. Designers and content creators have more power than ever to craft immersive stories, but with that power comes a challenge: understanding how to leverage the mechanics of the camera alongside the principles of design. The intersection is where the most compelling work lives.

Photos Via Pixabay

This article explores the evolving relationship between photography, videography, and graphic design, and examines how creators can use motion, light, composition, and emerging technologies to build visuals that resonate in our increasingly dynamic visual landscape.

### *The Visual Ecosystem*

Graphic design is no longer contained within static mediums. A designer may begin a project in print, extend it into social media motion graphics, adapt it for vertical video formats, and reimagine it in an interactive environment like a website or immersive installation. This fluidity has forced the worlds of photography and videography to merge more closely than ever with design workflows.

High-quality imagery is no longer an optional enhancement—it is the backbone of modern identity systems. A brand's visual narrative often begins with a moodboard filled with photos, textures, lighting references, and video stills. These visuals do more than establish style; they set the emotional parameters for the work.

The implications are large. Designers today must develop at least a foundational literacy in photography and cinematography. Understanding how light behaves, how color grading influences tone, and how lenses shape perception enables more intentional and cohesive design decisions.



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*Soft light  
communicates warmth,  
intimacy, and  
approachability.*

---



## Light as the First Design Tool

Before typography, layout, or color palettes enter the equation, photography reminds us of the absolute importance of light. Photographers are trained to see the world in highlights and shadows, to understand how directionality softens or sharpens a subject, and to recognize the emotional weight that light carries.

- For designers, adopting this mindset changes everything.
- Soft light communicates warmth, intimacy, and approachability.
- Hard light conveys boldness, confidence, or drama.
- Backlighting emphasizes silhouette and mystery.
- High-key lighting pairs naturally with minimalism and clarity.
- Low-key lighting aligns with luxury, seriousness, or tension.

These are the same tonal qualities that designers strive to express through composition, color, and typography. When design and photographic lighting reinforce each other, the resulting visual language feels cohesive and intentional. In branding especially, controlled lighting styles become part of the identity—consistent across campaigns, product imagery, and video content.

## The Cinematic Shift: How Motion Changed Everything

With the rise of short-form video platforms and motion-forward web design, videography has become inseparable from modern graphic design practice. Motion expands the designer's toolkit in a profound way: typography can move, layouts

can transform, and imagery can evolve through time.

But videography isn't just moving photography—it brings new design considerations:

### 1. Timing and Rhythm

Graphic designers traditionally think in terms of spacing and alignment. Videographers think in beats. The pacing of a camera movement, the duration of a cut, or the slow reveal of information creates a rhythm that guides viewers just as surely as a static composition does.

### 2. Camera Movement as Narrative

A static camera is calm; a handheld camera is intimate; a slow dolly creates elegance; a whip pan injects energy. These “design” choices shape audience emotion in ways typography alone cannot.

### 3. Color Grading as Emotional Anchoring

Colorists in film work with subtlety that designers can learn from—micro-adjustments in hue and contrast can transform tone. A brand or campaign that applies consistent grading across photos and videos gains a unified aesthetic identity.

### 4. Sound Design Matters More Than Designers Think

While graphic design is largely visual, sound elevates motion work. A simple whoosh during a logo reveal or the ambient hum in a documentary-style brand film adds dimension that can't be captured in still design. The designer who understands audio becomes more effective in motion environments.

## Composition: Shared Foundations, Different Perspectives

At first glance, photographers, videographers, and designers all speak the same visual language: rule of thirds, leading lines, negative space, balance, and hierarchy. Yet each discipline applies these principles differently.

### Photography's Point of View

Photographers think in moments. Each frame captures a single instant that must communicate the entire story. Composition, then, must be both precise and evocative.

### Videography's Point of View

Videographers think in sequences. A composition doesn't just exist; it transitions. A frame leads to the next, and each shot builds meaning through context, movement, and progression.

### Design's Point of View

Graphic designers think in systems. They must ensure consistency across multiple formats, sizes, and contexts. Composition becomes more than arranging visual elements.

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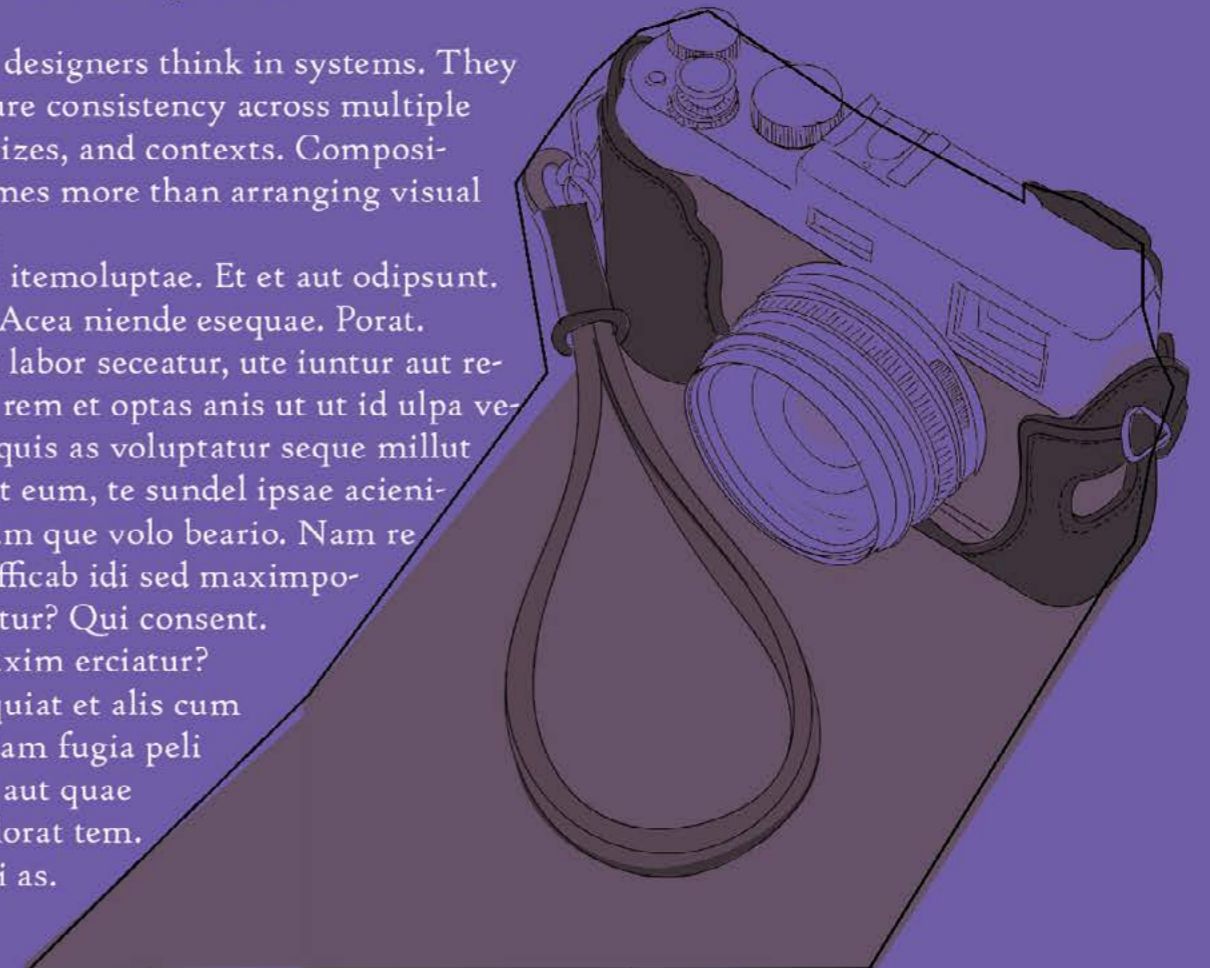
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Et rest qui as.



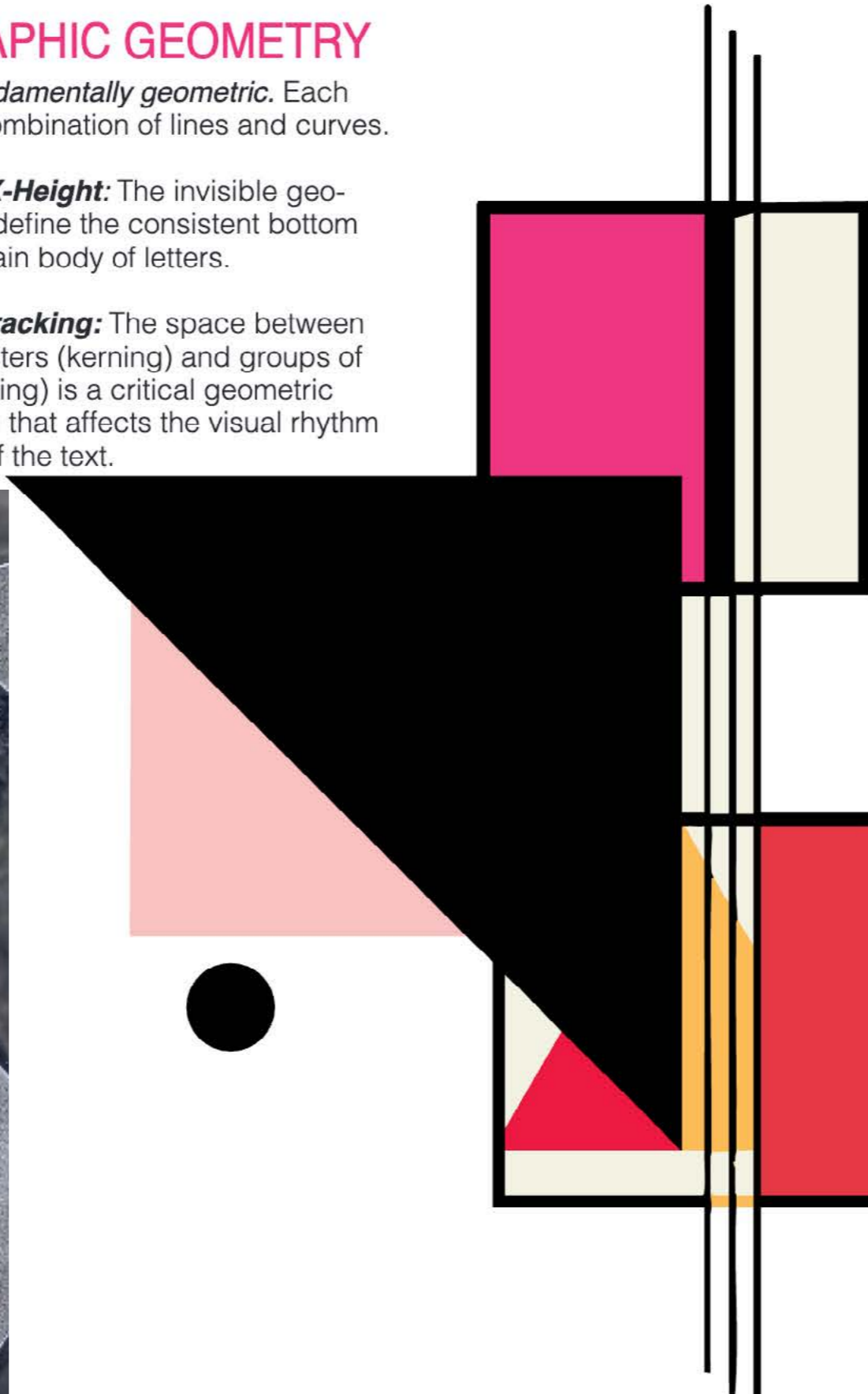
# Geometry

## TYPOGRAPHIC GEOMETRY

Even text is *fundamentally geometric*. Each letter form is a combination of lines and curves.

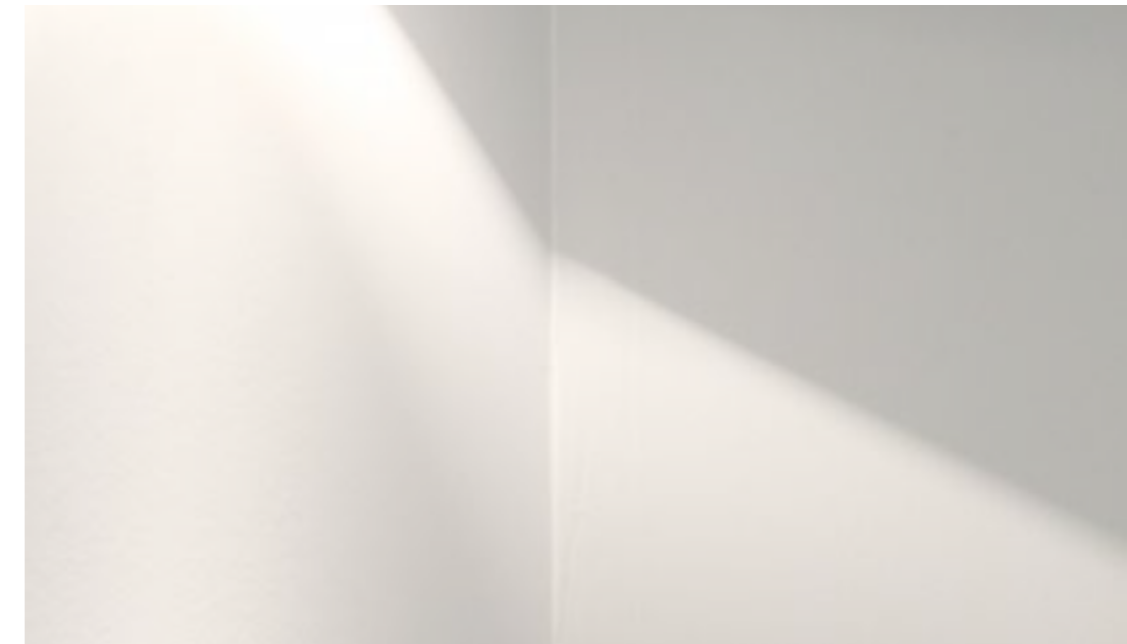
**Baseline and X-Height:** The invisible geometric lines that define the consistent bottom and top of the main body of letters.

**Kerning and Tracking:** The space between individual characters (kerning) and groups of characters (tracking) is a critical geometric spacing decision that affects the visual rhythm and readability of the text.



# etry

*Negative space is the area around and between the primary elements. Geometrically, it defines the boundaries and relationships be-*



## *The Geometry of*

Graphic design is more than just arranging beautiful images and appealing fonts; at its core, it is a discipline fundamentally rooted in geometry and mathematics. Every line, curve, shape, and space a designer uses is governed by geometric principles. Understanding this relationship is crucial for creating balanced, harmonious, and effective visual communications.

Design

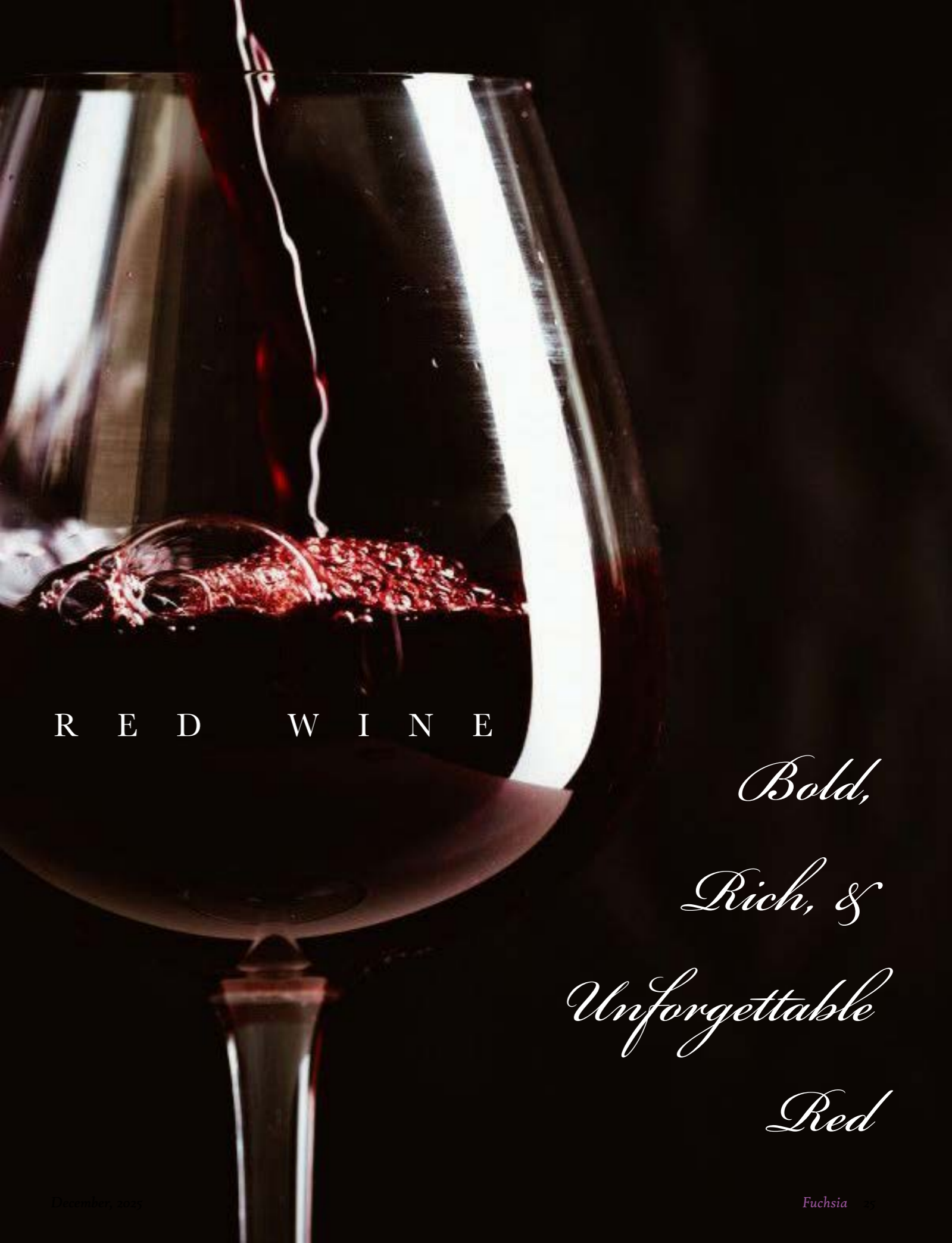


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# THE VISIONARY BEHIND LUXE WORLD MAGAZINE:

ELEANOR LAMONTAGNE

In an age where fashion constantly evolves, few have the foresight, grace, and intellect to stay ahead of the curve. Eleanor LaMontagne, the celebrated director of Luxe World magazine, is a name that stands synonymous with sophistication, timeless style, and unparalleled editorial acumen. At 78 years old, Eleanor has been at the helm of the luxury fashion world for nearly five decades, steering Luxe World to its current position as one of the most influential fashion publications globally. As she enters what she calls her "golden years" in the industry, her legacy is more than just a series of iconic covers and trailblazing features.

## *A Life Shaped By Fashion*

Born in 1947 in Paris, France, Eleanor LaMontagne was raised in an era when the world of fashion was undergoing a revolution. The golden age of haute couture was in full swing, with names like Dior, Balenciaga, and Yves Saint Laurent re-defining the boundaries of design and artistry. Raised in a household that valued culture and refinement, Eleanor was introduced to the world of fashion at an early age. Her mother, a former model, often brought her along to fittings, shows, and even meetings with designers, giving her an insider's perspective of the industry before she even knew she wanted to join it.

## *The Visionary Director*

By the mid-1970s, Eleanor had already built a reputation as an editor with a discerning eye and a deep understanding of the creative process. Her big break came when she was appointed the director of Luxe World in 1982, a magazine that was still finding its voice in a market dominated by publications like Vogue and Harper's Bazaar.

---

*Fashion has the power to shape perceptions, It can be a tool for societal change.*

---



## *The Importance of Sustainability and Diversity*

Eleanor's commitment to sustainability extends beyond the runway. She has spearheaded several initiatives within the magazine to reduce its environmental impact, from transitioning to eco-friendly materials for print to emphasizing brands that use sustainable fabrics and ethical labor practices. But she is equally passionate about using fashion as a platform to address larger issues of diversity and inclusion. Eleanor has made it a point to ensure that the pages of Luxe World represent the global, multifaceted nature of luxury today.

## *Her Thoughts on the Future of Fashion*

Despite her success and the admiration she commands in the industry, Eleanor LaMontagne remains humble and grounded in her beliefs. She has built Luxe World into a powerhouse not by conforming to trends but by creating an editorial vision that transcends them.

What sets Eleanor LaMontagne apart from her peers is her unyielding devotion to the concept of "luxury as an experience." While many fashion editors of her generation focused on the superficial elements of style—dresses, accessories, and models—Eleanor understood that true luxury was about much more than expensive clothing. For her, it was about the artistry, the craftsmanship, and the deeply personal connection people have with fashion.

Luxe World under her direction has never been just a magazine about clothes.



“Good design, when it’s done well, becomes invisible. It’s only when it’s done poorly that we notice it.”

- Jared Spool

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# GOOD DESIGN IS INVISIBLE

If you work in the creative industry, you’ve often heard the expression “good design is invisible.” If this isn’t familiar, please don’t worry; we’ll be happy to explain. With well-designed products, you don’t even notice them or how easy they are to use. You only notice it when the design is bad.

Take a look at the user interface of a smartphone as an example. Because we use it on a daily basis, we fail to appreciate its well-designed simplicity. Brilliant, uncluttered, and user-friendly. Something that we often forget is how simple it is to use these devices, which is by design. Often, we refer to ease of use as UX or User Experience.

Invisible design is a powerful force that can shape our daily lives in profound ways. When design is done well, it becomes invisible, allowing users to focus on the task at hand without being distracted by unnecessary elements. This subtle yet profound impact of design can have a significant effect on our productivity, efficiency, and overall user experience with the world around us.

Good designers understand the importance of creating an invisible design that delivers maximum output with simplicity for the end user. They strive to create a seamless user interface that is intuitive, easy to use, and free from clutter. By doing so, they enable users to achieve their goals quickly and efficiently, without being bogged down by unnecessary design elements.

The power of invisible design can be seen in various aspects of our daily lives, from the products we use to the websites we visit. A well-designed product, for instance, can make our lives easier and more enjoyable, while a poorly designed one can lead to frustration and disappointment.

“Most people make the mistake of thinking design is what it looks like. People think it’s this veneer -- that the designers are handed this box and told, ‘Make it look good!’ That’s not what we think design is. It’s not just what it looks like and feels like. Design is how it works.”

- Steve Jobs

# RAM Prices Skyrocket:

The What, How, and Why?

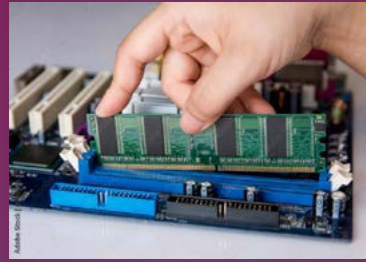


Image By: Adobe Stock

Quote From  
Tomshardware.com

“According to the general manager of Chinese memory giant TeamGroup, contract prices of DRAM and NAND products have almost doubled recently. Supply of commodity memory is set to worsen in early 2026, and normalization is unlikely before 2027 – 2028 when more production capacity emerges, reports DigiTimes.”

-Tomshardware.com



Image By: Adobe Stock



Image By: Adobe Stock

The last three months of 2025 have seen an unprecedented surge in RAM prices, particularly for DDR5 and DDR4 modules, driven primarily by a global memory shortage that has shifted production priorities away from consumer markets. Starting in September, average spot prices for a 16Gb DDR5 chip were around \$6.84, but by December 1, they had escalated to \$24.83, marking a nearly fourfold increase in just over two months. This rapid escalation is part of a broader DRAM crisis, with analysts warning that the problem is only beginning and could worsen significantly into 2026, as manufacturers like Samsung, SK Hynix, and Micron redirect resources toward high-bandwidth memory (HBM) for data centers and AI applications, severely limiting supply for PCs, laptops, and consumer electronics. Contract prices for both NAND and DRAM have risen by approximately 15-20% in Q4 alone, breaking typical seasonal patterns and exacerbating the crunch. The impact on consumers and businesses has been stark, with retail prices for common modules doubling or more. For instance, 64GB DDR5 kits have reached around \$500, while enterprise-grade 256GB DDR4 modules are now exceeding \$3,000, reflecting spot market chaos where inventory has evaporated. Projections indicate that 16GB DDR5 modules could climb to about \$30 each by mid-2026, up from under \$10 in September 2025, as the shortage persists due to underinvestment in consumer DRAM production lines.

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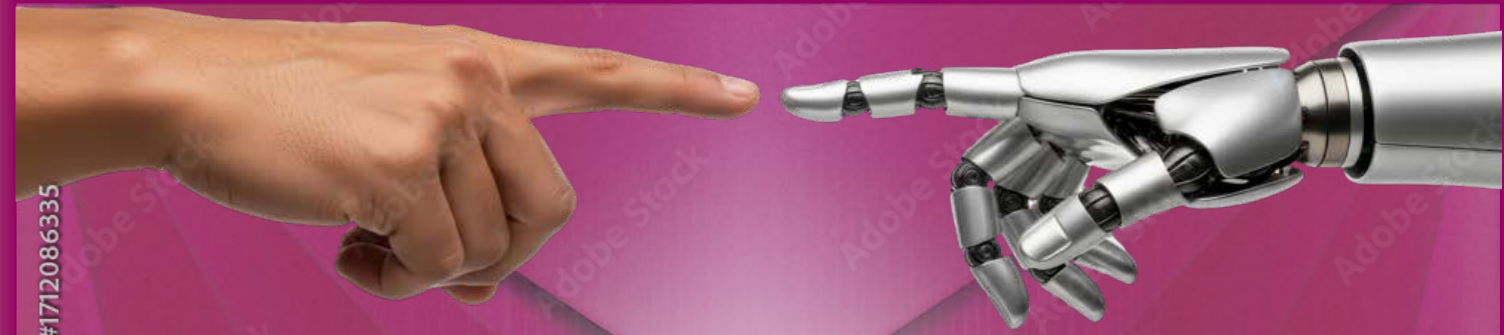


Image By: Adobe Stock

# The Race to Automation in Robotics

The period from September to December 2025 has marked a pivotal acceleration in robotics and automation, with advancements in humanoid robots, collaborative systems, and industrial applications, fueled by AI, improved mobility, and real-world deployments. In September, the robotics sector saw a mix of highs and lows, including company closures but breakthroughs like new AI models for robotics and expert insights on scaling automation, highlighting the industry’s maturation amid economic pressures. Key predictions for 2025 emphasized the rise of

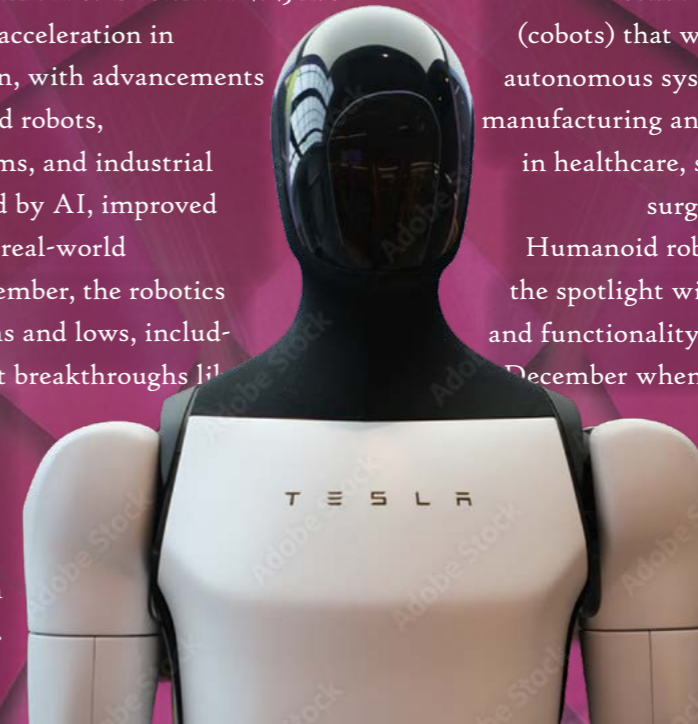


Image By: Adobe Stock

collaborative robots (cobots) that work safely alongside humans, autonomous systems enhancing efficiency in manufacturing and logistics, and expanded roles in healthcare, such as assistive devices for surgery or elderly care. Humanoid robots, in particular, have stolen the spotlight with rapid evolutions in design and functionality. Tesla made headlines in early December when CEO Elon Musk announced that their Optimus humanoid robot is now “up and running.”

“Boston Dynamics’ Electric Atlas is a high-performance humanoid engineered for dynamic movement in challenging environments. Often showcased performing acrobatic maneuvers, this robot is a benchmark for agility and balance. Overview: Electric Atlas is built to execute complex motions, from running and jumping to performing precise maneuvers like backflips. It is ideal for tasks in search and rescue, industrial inspections, and research”

Source: humanoidroboticstechnology.com - “Top 12 Humanoid Robots of 2025”



Image By: humanoidroboticstechnology.com

# Good-Bye Micron

Micron Technology, Inc., a major player in the semiconductor industry, announced on December 3, 2025, its decision to exit the Crucial consumer business, marking a significant strategic shift after nearly 30 years of operation in the consumer RAM and SSD market. This move involves ceasing the sale of Crucial-branded consumer products, such as RAM modules and SSDs, through retail channels including key retailers, e-tailers, and distributors worldwide. The primary driver behind this decision is the explosive growth in demand for memory and storage solutions fueled

by artificial intelligence (AI) applications in data centers. Micron aims to redirect resources, including production capacity, toward high-bandwidth memory (HBM) and enterprise-grade solutions to better serve larger, strategic customers in these faster-growing areas. In terms of impact, this announcement has raised concerns among consumers, PC enthusiasts, and gamers who rely on Crucial products for affordable, high-performance upgrades. The phase-out could exacerbate ongoing memory shortages, potentially driving up prices for remaining consumer-grade RAM and SSDs from competitors like Samsung and SK Hynix, especially as the industry grapples with a pivot toward AI-centric production.



Image By: Adobe Stock

*“The AI-driven growth in the data center has led to a surge in demand for memory and storage. Micron has made the difficult decision to exit the Crucial consumer business in order to improve supply and support for our larger, strategic customers in faster-growing segments. Thanks to a passionate community of consumers, the Crucial brand has become synonymous with technical leadership, quality and reliability of leading-edge memory and storage products. We would like to thank our millions of customers, hundreds of partners and all of the Micron team members who have supported the Crucial journey for the last 29 years.” said Sumit Sadana, EVP and Chief Business Officer at Micron Technology.*

Image By: Adobe Stock



# A Quantum Leap in Computing

The period from September to December 2025 has been marked by accelerated progress in quantum computing, with key breakthroughs in hardware, software, error correction, funding, and real-world applications, pushing the field closer to practical utility and quantum advantage. Major trends include increased experimentation with logical qubits as error correction matures, the development of specialized hardware and software, and a surge in investments, with equity funding reaching \$3.77 billion in the first nine months of 2025 nearly triple the amount from all of 2024 and national governments committing \$10 billion by April, escalating further in Q4.



Image By: Adobe Stock



Image By: Adobe Stock

In November 2025, Quantinuum achieved a significant milestone with the commercial launch of its third-generation Helios quantum system on November 5, featuring 98 fully connected physical trapped-ion qubits with over 99.9% fidelity, an upgrade from the previous H2 system's 56 qubits.

Helios positions itself in the quantum advantage regime for simulations in high-temperature conductivity and quantum magnetism, with commercial implications including cloud and on-premises access, partnerships with SoftBank, JPMorgan Chase, Amgen, BlueQubit, and BMW for applications in finance, biologics, AI image recognition, and fuel cells. The company secured an \$800 million funding round, valuing it at \$10 billion, and announced a partnership with Singapore's National Quantum Office for R&D, including an on-site Helios installation. Overall, these developments signal a transition from conceptual to commercial viability, with projections for useful applications around 2035–2040 under exponential growth akin to Moore's Law.

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