

Lumatics LAB - Colour Picker User Guide

High-fidelity color identification and high-speed lexicon clipboard for forensic color workflows.

High-speed color identification without the friction

The Lumatic LAB Colour Picker instantly translates visual colors into standardized, professional data. Whether you are matching a brand asset or logging hex codes for a project, this tool eliminates guesswork by generating a universal Lexicon Name and exact mathematical weight for any color you choose.

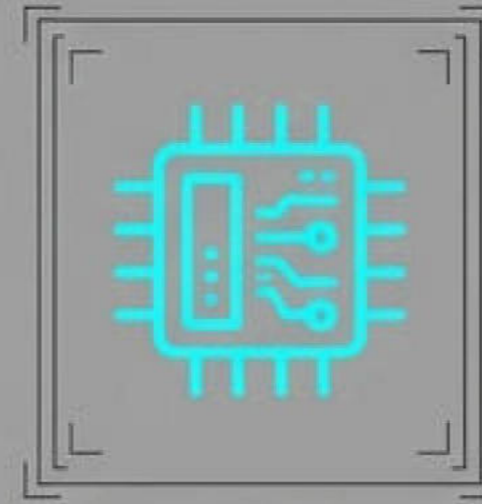
The Lumatic Promise



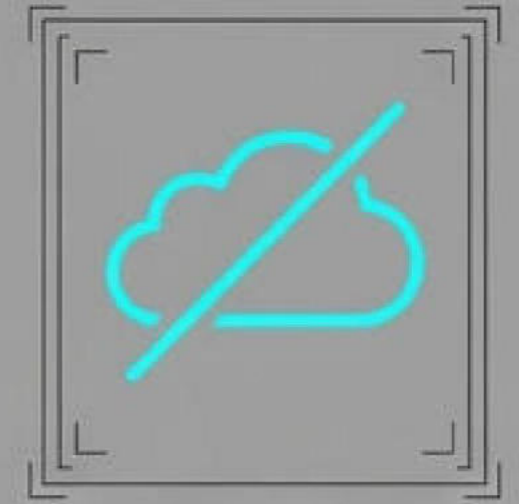
Free to Use



Zero Logins Required



100% Local Processing



No Data Uploaded or Stored

[Advanced / Technical Notes](#)

SPECIFICATION: Version 1.0.0 | **BUILD:** 20240425.1 | **CALIBRATION:** ISO/IEC 17025

Generate your first forensic identity in 60 seconds



Click the Color Square to open the system picker.

Pick your desired color from the spectrum.

Check the viewport to see your color's official Lexicon Name.

Click "Copy Identity" to instantly save the data to your clipboard.

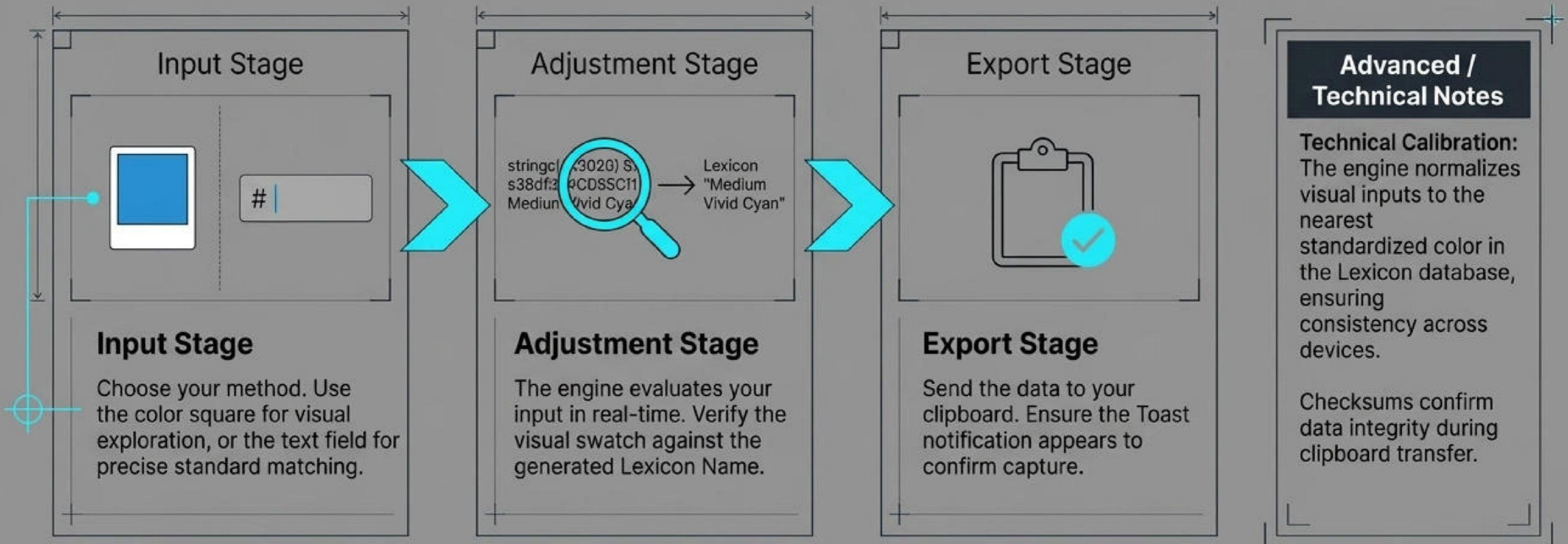
Advanced Notes

Hex Data Entry

If you already have a color code, bypass the visual picker entirely by typing directly into the HEX field. The engine will instantly reverse-generate the identity.

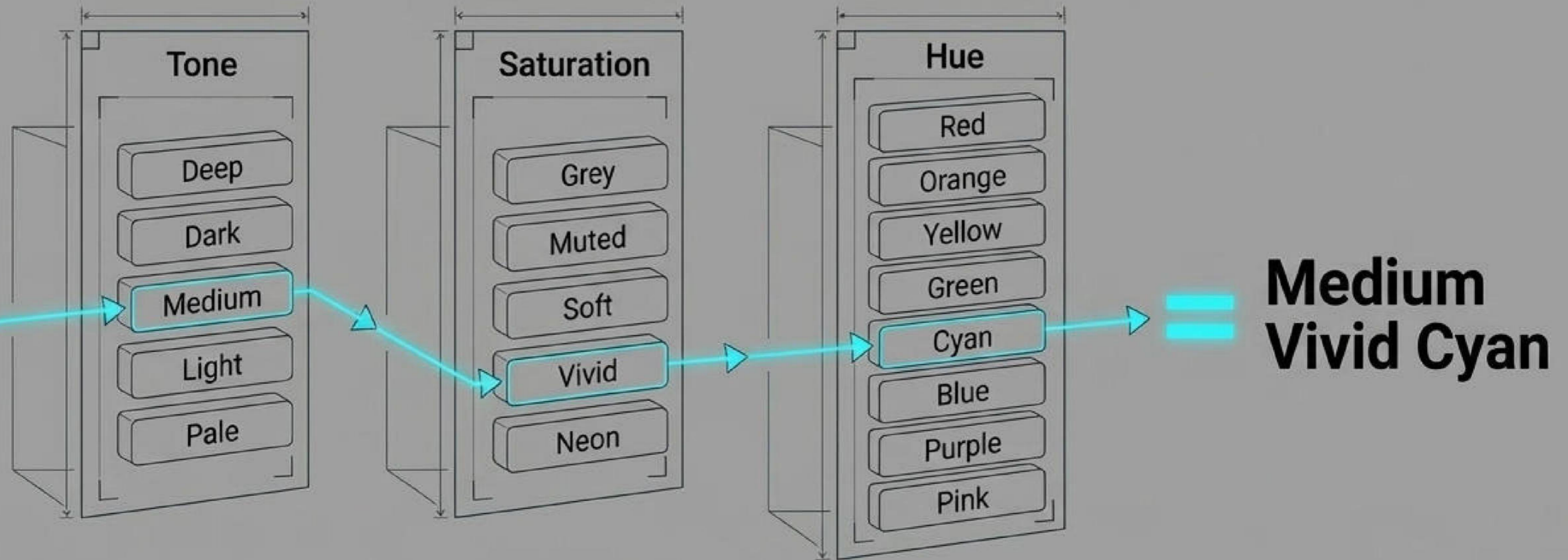
Core Workflow: From Visual Input to Standardized Data

Standardizing this flow ensures every color you share is **mathematically exact** and **professionally named**, eliminating “looks like” guesswork.



The Lexicon Engine Logic Tree

The Lumatic LAB engine automatically removes the subjectivity from naming colors. It analyzes your chosen hex code and routes it through a strict 3-dimensional matrix to generate a highly specific, standardized name.



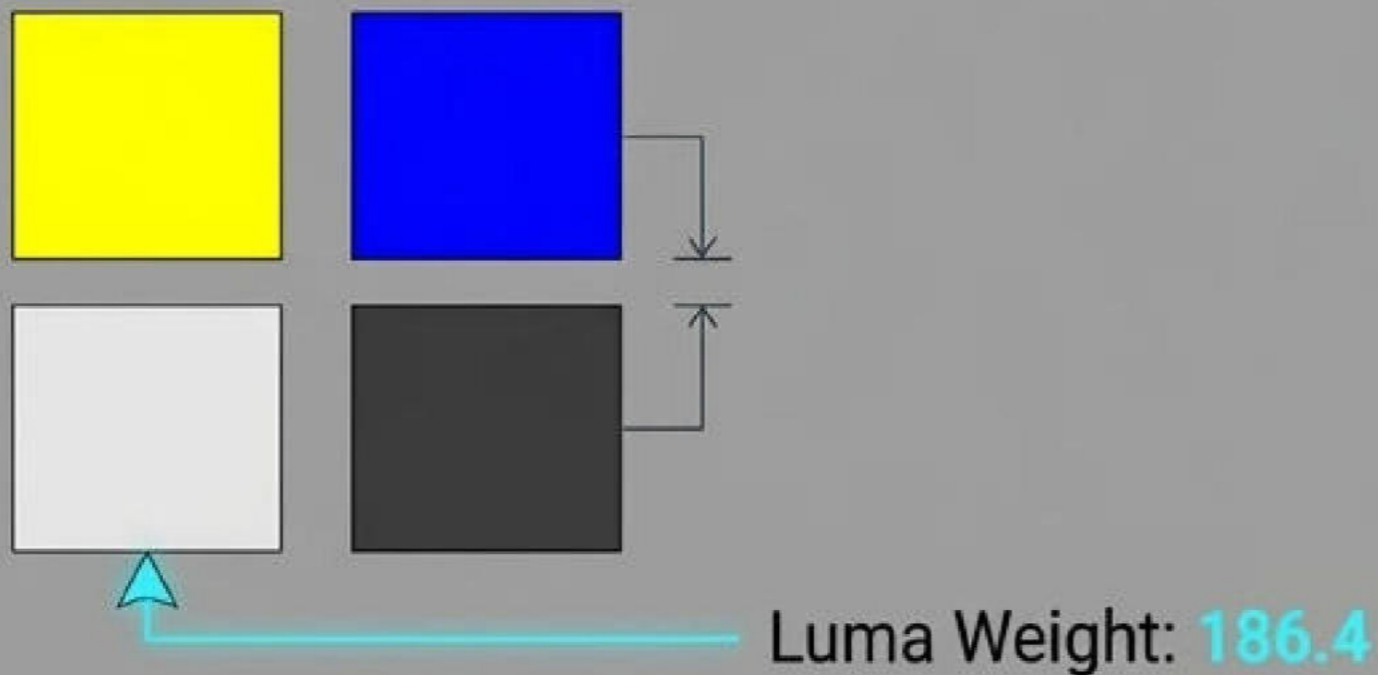
Advanced Notes: Engine Mechanics

The matrix dynamically partitions the hex color space. Tone is calculated via relative max/min values ($Luma/20$), while Saturation thresholds evaluate delta spreads.

Luma Weight and the Copy Protocol

Luma Explained

Luma Weight measures how bright a color *looks* to the human eye, not just how much light it emits. Use this number to perfectly balance contrasting colors in your designs.

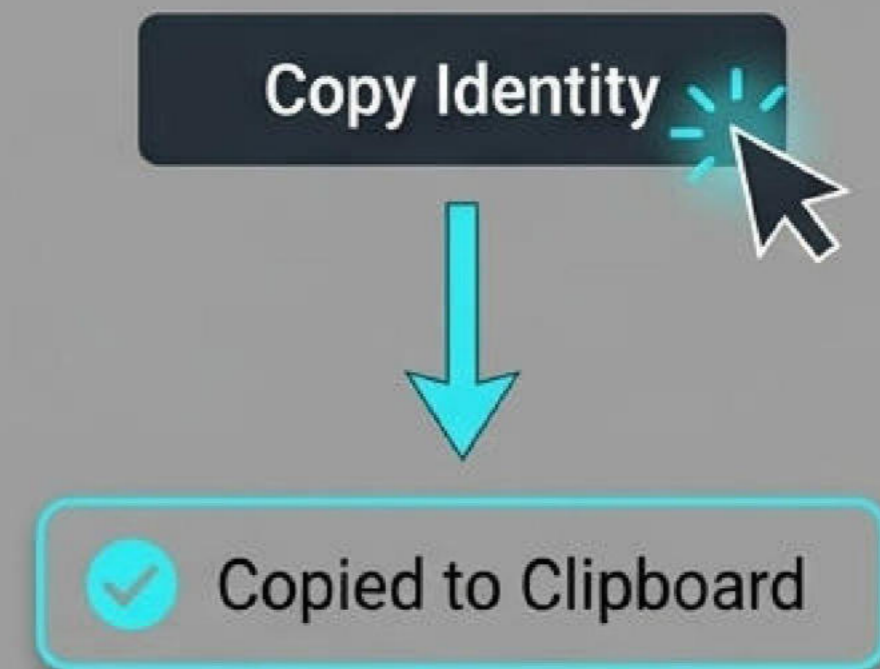


Advanced Notes: The Clipboard String

Captured data is strictly formatted as `[Name] ([HEX])` to maintain consistency across professional workflows.

The Copy Protocol

One click formats your data perfectly for emails or text logs.

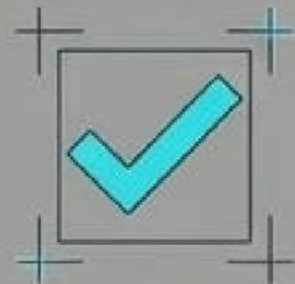


Best Practices for Perfect Color Capture



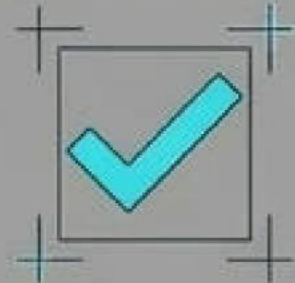
Rely on the Lexicon

Don't worry about memorizing complex HEX codes. Use the plain-English Lexicon names to communicate with clients and team members.



Avoid Typos

Always use the 'Copy Identity' button rather than trying to type out the results manually.



Balance with Luma

If placing text over a color, check the Luma Weight. High Luma needs dark text; low Luma needs light text.



Watch for the Toast

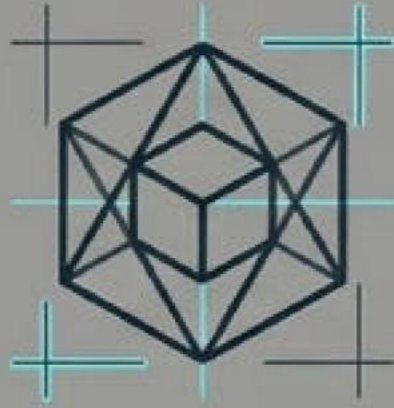
If you don't see the 'Copied to Clipboard' notification at the bottom of the screen, the data wasn't captured.

Advanced Notes: Engine Mechanics

The Lexicon Engine operates on a strict, proprietary algorithm designed for professional color communication. Consistent adherence to these protocols ensures data integrity and repeatable results across all platforms.



Real-World Scenarios



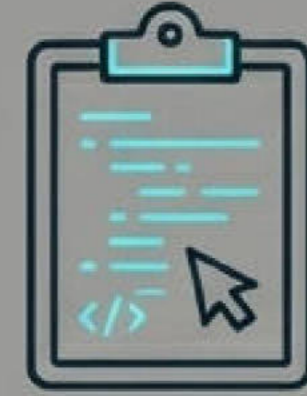
Standardizing Brand Colors

Stop arguing over “which blue” is correct. Translate a visual swatch into a definitive Lexicon string to communicate precisely with clients and vendors.



Forensic Tonal Mapping

Use the Luma Weight readout to perfectly match the perceived brightness between two entirely different hues without relying on the flawed Lightness scale.



Rapid Project Logging

Build massive color palettes in seconds. The high-speed clipboard protocol lets you click, copy, and paste ``Medium Vivid Cyan (#38BDF8)`` into your documentation instantly.

Ecosystem Integration and Export Formatting

- **Universal Compatibility**

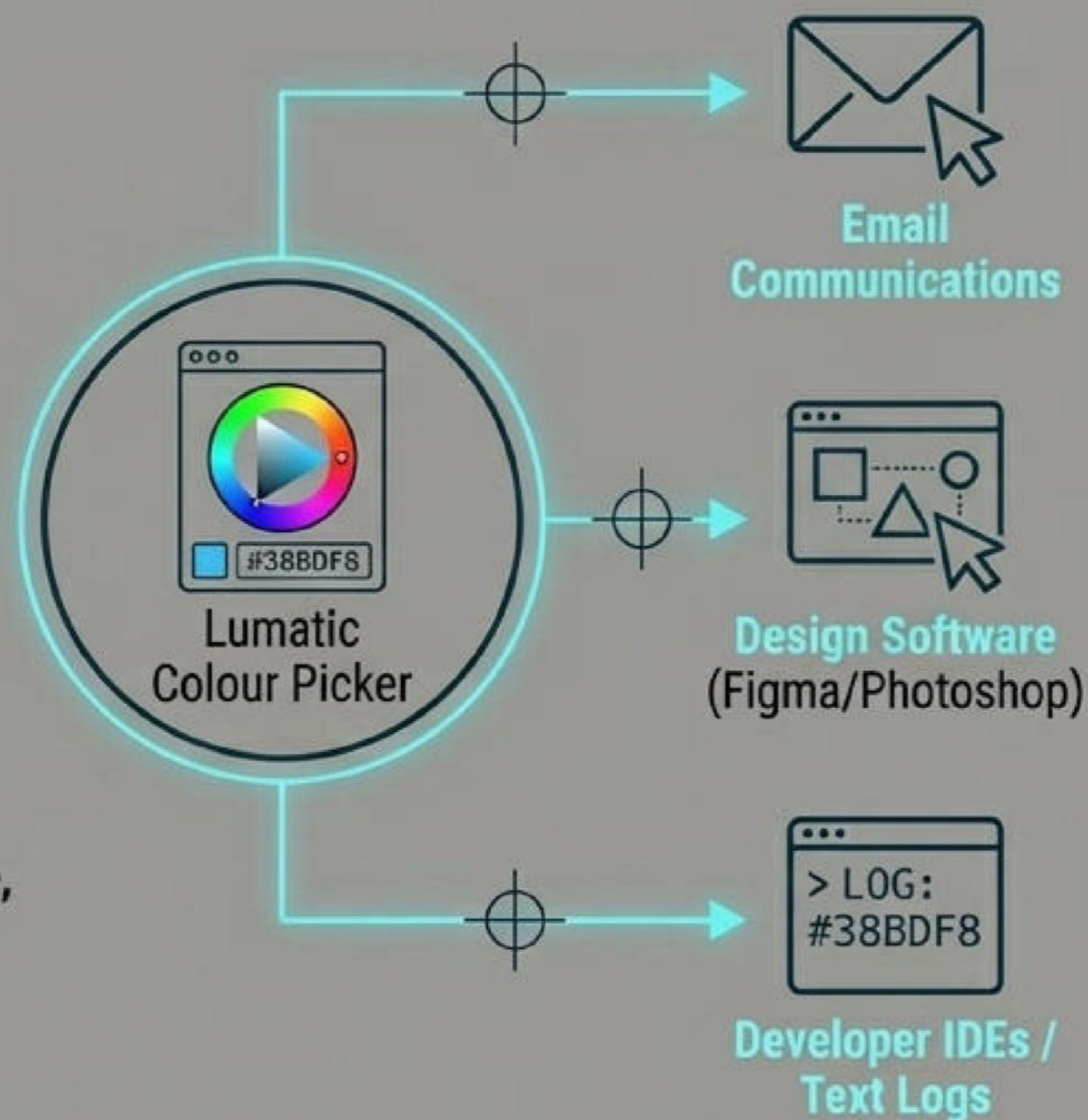
Because the output relies entirely on standardized text strings, the data can be pasted flawlessly into any application.

- **Format Integrity**

The strict `[Name] ([HEX])` structure is engineered to be human-readable for clients while remaining machine-searchable for developers.

- **Zero-Friction Privacy**

Operating with 100% local processing means you can safely identify sensitive, unreleased brand assets without them ever leaving your machine.



Pro Content

Advanced Technical Notes: Data Interoperability

The system utilizes pure ASCII text data transfer, eliminating binary dependencies. This ensures cross-platform compatibility between macOS, Windows, and Linux environments, and guarantees data readability in plain text editors for audit trails and future-proofing.

The text string is generated in under 10ms.

DATA STREAM (ASCII)

TRANSFER RATE: >1000 CPS

LATENCY: <10MS

Troubleshooting and Quick Fixes

Issue	Simple Fix
Paste isn't working after I click copy.	Look for the Toast confirmation at the base of the viewport to ensure successful capture. Ensure browser clipboard permissions are enabled.
The hex code I typed reverted to something else.	Ensure you are entering a valid 6-character hex code (e.g., #38BDF8). The engine will auto-correct incomplete or invalid entries.
The color looks different on my other screen.	The app's #7F7F7F background ensures Optical Neutrality, but hardware monitor calibration variations will always affect ultimate perception. Trust the HEX data.

Advanced Technical Notes: Diagnostic Protocol.

The system utilizes active clipboard monitoring and strict hex validation against standard web color definitions. Visual discrepancies are primarily due to external display color profiles and not internal data integrity.

Trust the numerical HEX output over perceptual differences.

