

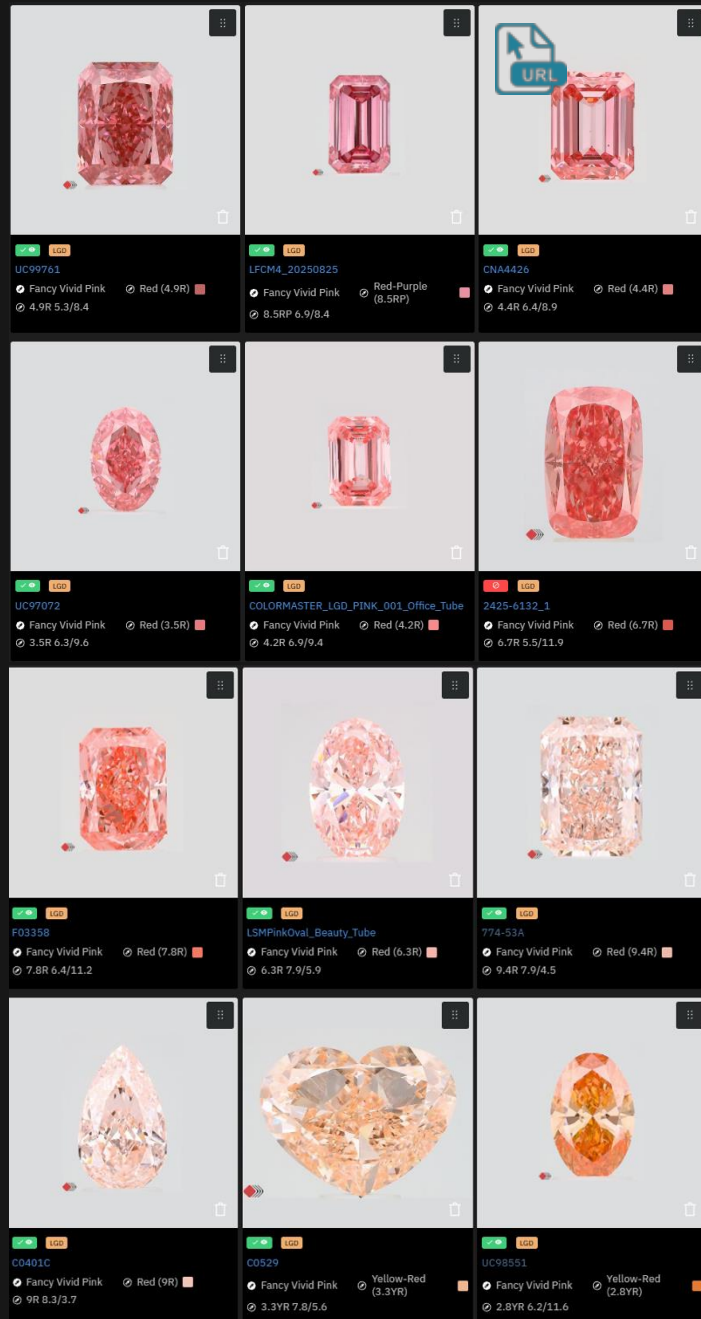


Fancy Color Diamond Grading

Using Virtual Munsell Color Coordinates

Advanced Visualization Technology for the Future

Some Facts



- Fancy color diamonds derive a significant portion of their value from color itself .
- In fancy color diamonds, hue, saturation and tone are the primary drivers of desirability rarity, and price.

• ALL THE DIAMONDS YOU SEE ON THE LEFT ARE GRADED BY A LEADING LAB AS “FANCY VIVID PINK”

- To communicate the differences clearly and objectively, the diamond industry increasingly needs a standardized color language.
- The Munsell Color System, expressed through Munsell coordinates, provides such an objective and universally understandable framework.
- Absence of calibrated screen to represent the true color makes the Munsell coordinates even more relevant solution to communicate the diamond color

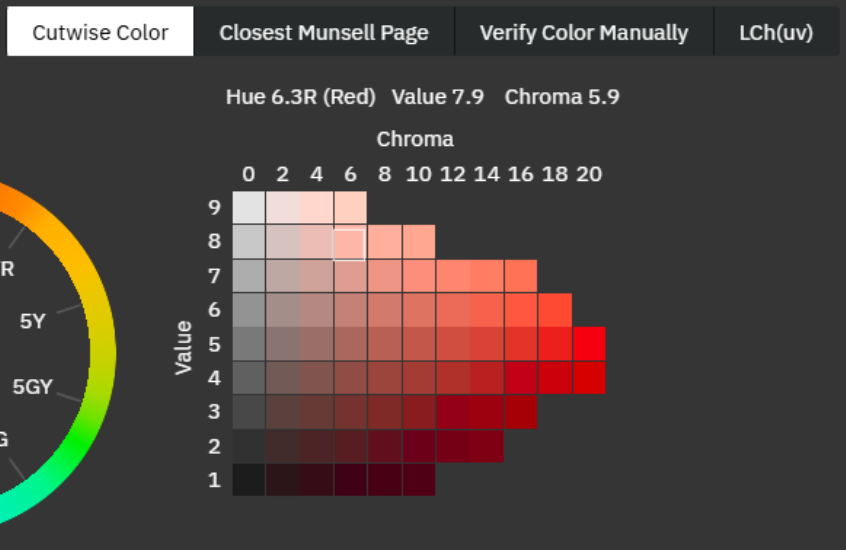
Hue/Value/Chroma
Cutwise Color 6R/8.1/5.5



Why Munsell

Munsell coordinates are used globally to define colors of various objects like flowers, fabrics, soils, etc..

- because it offers an objective, three-dimensional system (Hue, Value, Chroma) that precisely describes visual color, making communication and standardization reliable across science, art, and industry. A globally recognized scientific method designed to match human visual perception.



Hue

The type of color
(Yellow, Pink, Blue)



Value

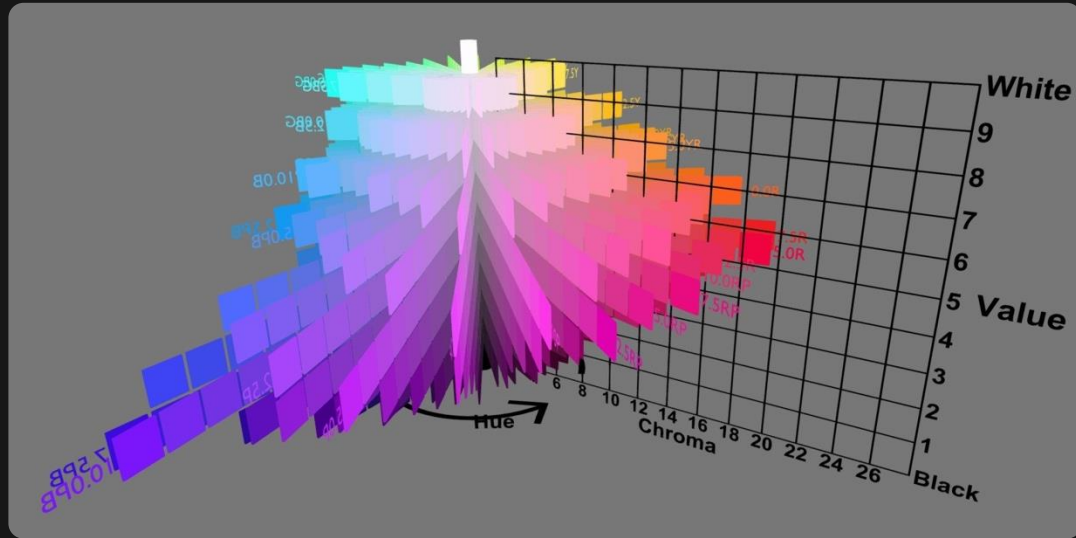
Lightness or Darkness
(The "Tone")



Chroma

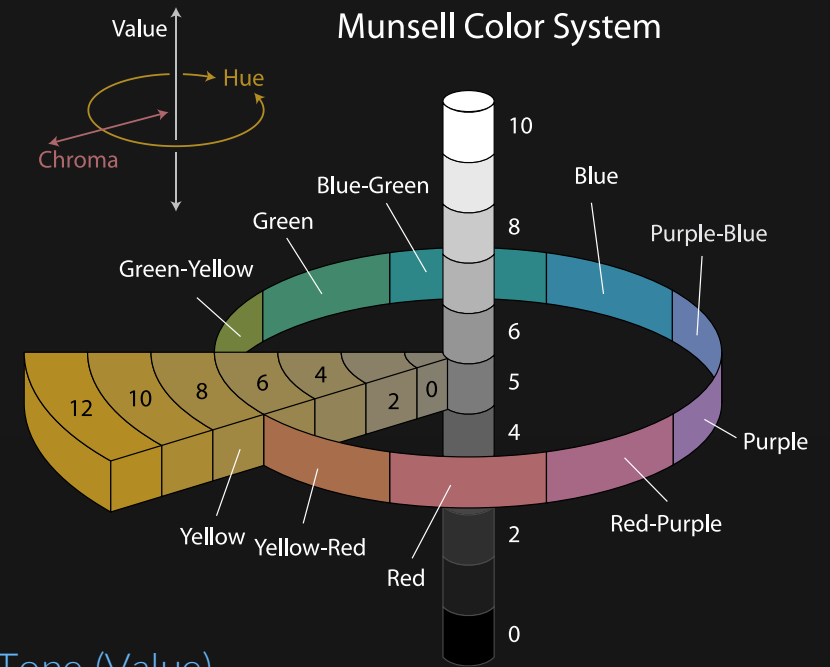
Color Strength or Purity
(The "Saturation")

Decoding the Coordinates

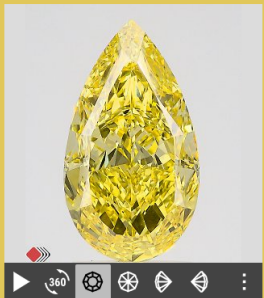


Example: 5Y 7/6

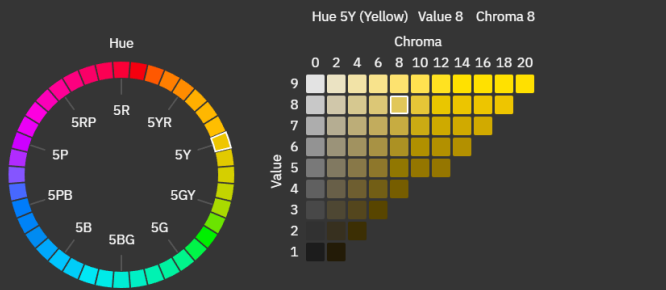
A single coordinate provides a precise, repeatable description of a stone's appearance.



Hue/Value/Chroma
Closest to Cutwise 5Y/8/8



Cutwise Color **Closest Munsell Page** Verify Color Manually LCh(uv)



5Y → Yellow Hue

7 → Medium-Light Tone (Value)

6 → Strong Saturation (Chroma)

Benefits of using Munsell Coordinates



Objective

Reduces grader-to-grader variation by converting visuals to data.



Comparison

Easy comparison between stones for buying and inventory sorting.



Learning

Coordinates act as a reference language, speeding up the learning curve.





Communication

Explains color using numbers + visuals, increasing client confidence.

One of the most important advantage of Digital Munsell Coordinates is to help find and propose match pairs where two or more diamonds have exactly same appearance

Munsell Color Coordinates are a scientific way to describe color exactly how the human eye sees it.

360 Video				
Carat Weight	3.11ct	1.59ct	1.00ct	0.41ct
Certificate	GIA	GIA	GIA	GIA
Color Grade	Fancy Vivid Yellow	Fancy Vivid Yellow	Fancy Vivid Yellow	Fancy Vivid Yellow
Color Hue	Yellow (5Y) 	Yellow (5.6Y) 	Yellow (5.8Y) 	Yellow (4.2Y) 
Munsell Coordinates	5Y 7.9/8.9	5.6Y 7.9/9.1	5.8Y 7.8/9.3	4.2Y 7.2/9.2

Even within the same color grade, stones show visual differences and different Munsell coordinates.
ViBox 2.0 video analysis enables clear differentiation between premium- and lower-priced stones based on these factors.

VIBOX 2.0 - BRIDGING VISION & DATA

- ✓ More Confidence
- ✓ Better Consistency
- ✓ Clearer Communication

Pair proposed without Munsell coordinates















- Lower trust on color representation on screen due to past history of photoshopped images and videos.
- Difficulty in seeing true color on non calibrated display screens

X Confidence ZERO

X Poor Communication

Fancy Color Stone Pairing for Accurate Selection



360 Video		
		
 Carat Weight	2.39ct	2.25ct
Certificate	IGI	IGI
 Color Grade	Fancy Vivid Blue	Fancy Vivid Blue
 Color Hue	Blue (8.8B) 	Blue (8.9B) 
 Munsell Coordinates	8.8B 7.2/3.5	8.9B 7/4.3
 Clarity	VVS2	VVS2

✓ More Confidence

✓ Better Consistency

✓ Clearer Communication

The Future of Grading

Grown Diamond Corporation brings science, vision, and standardization together—making fancy color diamond grading easier, clearer, and more reliable for the global industry.