AQC0964

Nanopublication — Computational Image Analysis - AQC0964

by Arnaud Quercy · Tritone (Eb, A) - Research on Harmony · 2026

Claim 1: Computational Image Analysis - AQC0964

> The artwork Tritone [1] (Eb, A) - Research on Harmony (AQC0964) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-03-05. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

CONTEXT

Analysis performed according to MMIDS-CMP-2025 [3] includes four metric categories: (1) Color distribution via k-means (10 colors), (2) Texture analysis using Haralick features, (3) Brightness and contrast measurements, (4) Spatial pattern characterization. Source image [5]: 1943x2915 pixels. Analysis date: 2026-03-05.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		CAC6BC	20.5	yellow-orange	silver
2		2A5087	13.4	blue-violet	grayish purple
3		3189D0	11.9	blue-violet	steelblue
4		313236	11.5	gray	dusty mauve
5		1B1D23	11.2	gray	very dark gray
6		EAE4D5	10.1	yellow	white
7		406498	8.1	blue-violet	grayish purple
8		49494B	7.1	gray	dusty mauve
9		6E6C6A	3.6	gray	dimgray
10		979796	2.6	gray	steel gray

Color Families:

Family	%
gray	35.9
blue-violet	33.4
yellow-orange	20.5
yellow	10.1

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.264
Mean Local Roughness	0.039
Roughness Uniformity	0.042
Edge Density	0.163
Mean Gradient Magnitude	0.307
Gradient Variance	0.168
Gradient Smoothness	0.0
Directional Coherence	0.005
Pattern Complexity	0.115
Pattern Repetition	1.0
Detail Frequency Ratio	0.674
Spatial Variation	0.19
Texture Consistency	0.583

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.464
Brightness Variance	0.264
Brightness Uniformity	0.431
Brightness Skewness	0.375
Brightness Entropy	7.589
Rms Contrast	0.264
Michelson Contrast	1.0
Weber Contrast	0.827
Mean Local Contrast	0.043
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.784
Shadow Percentage	41.39
Midtone Percentage	27.426
Highlight Percentage	31.184
Shadow Clipping	0.0
Highlight Clipping	0.001
Tonal Balance	0.271
Fine Contrast	0.021
Medium Contrast	0.053
Coarse Contrast	0.065
Multiscale Contrast Ratio	0.319
Edge Contrast	0.307
Contrast Clustering	0.417

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.745
Color Clustering	0.832
Color Transition Smoothness	0.183
Transition Uniformity	0.0
Sharp Transition Ratio	0.1
Transition Directionality	0.006
Mean Saturation	0.312
Saturation Variance	0.085
Low Saturation Ratio	0.597
Medium Saturation Ratio	0.23
High Saturation Ratio	0.173
Saturation Clustering	0.999

Metric	Value
Hue Concentration	0.849
Complementary Balance	0.072
Analogous Dominance	0.926
Temperature Bias	-0.845

Methodology

This analysis employs standardized computational methods for objective image characterization. Color extraction uses k-means clustering algorithm. Texture analysis applies Haralick feature extraction. Brightness metrics include mean, variance, and distribution analysis. Spatial patterns are characterized through coherence and clustering measurements. All methods are deterministic and reproducible. Analysis performed by Multimodal Institute's computational imaging systems.

REFERENCES

[1] Arnaud Quercy (2026). Tritone (Eb, A) - Research on Harmony — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0964.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2026/03/tritone-eb-a-research-on-harmony_1yn0.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 https://multimodal.institute/en/publications/2025/10/mmids-cmp-2025-computational-image-analysis-standard-dg1.html

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

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