AQC0669

Nanopublication — Computational Image Analysis - AQC0669

by Arnaud Quercy · Tritone (D, G#) - Reflexions 10 · 2024

Claim 1: Computational Image Analysis - AQC0669

> The artwork Tritone [1] (D, G#) - Reflexions 10 (AQC0669) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. 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]: 2268x3402 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		CFD0CD	27.7	white	lightgray
2		C3C8C7	19.2	white	silver
3		D9D9D6	15.6	white	gainsboro
4		8E9DA5	11.1	blue	steel gray
5		9EABB0	9.9	blue	steel gray
6		B5BCBD	7.6	gray	steel gray
7		7E8D95	5.4	blue	lightslategray
8		6E6E70	1.6	gray	grayish purple
9		373535	1.2	gray	darkslategray
10		B0744D	0.7	orange	peru

Color Families:

Family	%
white	62.6
blue	26.4
gray	10.3
orange	0.7

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.119
Mean Local Roughness	0.01
Roughness Uniformity	0.012
Edge Density	0.023
Mean Gradient Magnitude	0.096
Gradient Variance	0.023
Gradient Smoothness	0.0
Directional Coherence	0.024
Pattern Complexity	0.115

Metric	Value
Pattern Repetition	1.0
Detail Frequency Ratio	0.598
Spatial Variation	0.086
Texture Consistency	0.408

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.74
Brightness Variance	0.119
Brightness Uniformity	0.839
Brightness Skewness	-1.658
Brightness Entropy	6.386
Rms Contrast	0.119
Michelson Contrast	1.0
Weber Contrast	0.312
Mean Local Contrast	0.012
Contrast Uniformity	0.0
Dynamic Range	0.996
Effective Dynamic Range	0.325
Shadow Percentage	1.193
Midtone Percentage	24.713
Highlight Percentage	74.094
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.005
Medium Contrast	0.015
Coarse Contrast	0.027
Multiscale Contrast Ratio	0.205
Edge Contrast	0.096
Contrast Clustering	0.592

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.74
Color Clustering	0.59
Color Transition Smoothness	0.76
Transition Uniformity	0.85
Sharp Transition Ratio	0.1
Transition Directionality	0.029
Mean Saturation	0.068
Saturation Variance	0.005
Low Saturation Ratio	0.99
Medium Saturation Ratio	0.01
High Saturation Ratio	0.0
Saturation Clustering	1.0

Metric	Value
Hue Concentration	0.412
Complementary Balance	0.272
Analogous Dominance	0.705
Temperature Bias	-0.411

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 (2024). Tritone (D, G#) - Reflexions 10 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0669.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/tritone-d-g-reflexions-10_7ge.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

CHECKSUM (SHA-256)

`25800d7e176aaa45407a77d60f1be24e3be71ac39e673e26933163a515b79201`

Artist	Arnaud Quercy
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