AQC0688

Nanopublication — Computational Image Analysis - AQC0688

by Arnaud Quercy · Tritone (C, F#) - Reflexions 22 · 2024

Claim 1: Computational Image Analysis - AQC0688

> The artwork Tritone [1] (C, F#) - Reflexions 22 (AQC0688) [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]: 1920x2560 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D0CDCD	18.7	white	lightgray
2		AAB1A7	15.6	yellow-green	steel gray
3		C2C5C4	14.6	white	silver
4		D9D7DA	13.8	white	gainsboro
5		B3BCB6	11.9	gray	steel gray
6		C2BAAE	9.7	yellow-orange	steel gray
7		9AA89D	9.5	yellow-green	steel gray
8		899688	2.7	yellow-green	gray
9		303333	2.5	gray	darkslategray
10		636262	1.2	gray	dimgray

Color Families:

Family	%
white	47.0
yellow-green	27.7
gray	15.6
yellow-orange	9.7

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.119
Mean Local Roughness	0.012
Roughness Uniformity	0.017
Edge Density	0.025
Mean Gradient Magnitude	0.1
Gradient Variance	0.034
Gradient Smoothness	0.0
Directional Coherence	0.035
Pattern Complexity	0.121

Metric	Value
Pattern Repetition	1.0
Detail Frequency Ratio	0.607
Spatial Variation	0.065
Texture Consistency	0.37

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.73
Brightness Variance	0.119
Brightness Uniformity	0.838
Brightness Skewness	-2.566
Brightness Entropy	6.39
Rms Contrast	0.119
Michelson Contrast	0.992
Weber Contrast	0.243
Mean Local Contrast	0.013
Contrast Uniformity	0.0
Dynamic Range	0.984
Effective Dynamic Range	0.278
Shadow Percentage	2.744
Midtone Percentage	13.794
Highlight Percentage	83.462
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.006
Medium Contrast	0.016
Coarse Contrast	0.027
Multiscale Contrast Ratio	0.232
Edge Contrast	0.1
Contrast Clustering	0.63

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.731
Color Clustering	0.911
Color Transition Smoothness	0.751
Transition Uniformity	0.768
Sharp Transition Ratio	0.1
Transition Directionality	0.046
Mean Saturation	0.066
Saturation Variance	0.002
Low Saturation Ratio	0.994
Medium Saturation Ratio	0.006
High Saturation Ratio	0.0
Saturation Clustering	1.0

Metric	Value
Hue Concentration	0.592
Complementary Balance	0.03
Analogous Dominance	0.688
Temperature Bias	-0.055

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 (C, F#) - Reflexions 22 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0688.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/tritone-c-f-reflexions-22_7ns.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)

d1d63ee5dd465f89482cb71cdfb66868f50edeb9f39a2e35d364752f5b2b-b483

Artist	Arnaud Quercy
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Collection	Synesthetic Explorations
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