AQC0820

Nanopublication — Computational Image Analysis - AQC0820

by Arnaud Quercy · C Minor - Research on Harmony - Variation 9 · 2025

Claim 1: Computational Image Analysis - AQC0820

> The artwork C Minor [1] - Research on Harmony - Variation 9 (AQC0820) [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]: 2473x3297 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E5B197	23.7	orange	burlywood
2		DFA487	17.9	orange	tan
3		97725B	14.9	orange	gray
4		ECBFA7	13.4	orange	lightpink
5		AA856D	11.9	orange	rosybrown
6		805C47	7.2	orange	burnt sienna
7		D59273	6.7	orange	darksalmon
8		926D86	2.4	red-violet	dusty mauve
9		3C2218	1.3	orange	very dark orange
10		C34B1C	0.6	orange	chocolate
11		1C0A03	0.3	red-orange	black [Accent]
12		B8929C	0.3	red	rosybrown [Accent]

Color Families:

Family	%
orange	97.6
red-violet	2.4
red-orange	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
1C0A03	red-orange	black	7.8
B8929C	red	rosybrown	16.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.142
Mean Local Roughness	0.012
Roughness Uniformity	0.012
Edge Density	0.045
Mean Gradient Magnitude	0.108
Gradient Variance	0.023
Gradient Smoothness	0.0
Directional Coherence	0.027
Pattern Complexity	0.115
Pattern Repetition	1.0
Detail Frequency Ratio	0.599
Spatial Variation	0.111
Texture Consistency	0.526

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.635
Brightness Variance	0.142
Brightness Uniformity	0.777
Brightness Skewness	-0.847
Brightness Entropy	6.811
Rms Contrast	0.142
Michelson Contrast	0.992
Weber Contrast	0.432
Mean Local Contrast	0.013
Contrast Uniformity	0.0
Dynamic Range	0.984
Effective Dynamic Range	0.396
Shadow Percentage	2.006
Midtone Percentage	42.143
Highlight Percentage	55.851
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.006
Medium Contrast	0.017
Coarse Contrast	0.029
Multiscale Contrast Ratio	0.202
Edge Contrast	0.108
Contrast Clustering	0.474

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.712
Color Clustering	0.589
Color Transition Smoothness	0.723
Transition Uniformity	0.846
Sharp Transition Ratio	0.1

Metric	Value
Transition Directionality	0.033
Mean Saturation	0.373
Saturation Variance	0.007
Low Saturation Ratio	0.13
Medium Saturation Ratio	0.86
High Saturation Ratio	0.01
Saturation Clustering	1.0
Hue Concentration	0.986
Complementary Balance	0.0
Analogous Dominance	0.995
Temperature Bias	0.999

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 (2025). C Minor - Research on Harmony - Variation 9 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0820.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/01/c-minor-research-on-harmony-variation-9_934.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 https://multimodal.institute/en/publications/2025/11/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)

a8e64b92b50ecacd639eaa062e90bc16cc1bb49a55b4e-f558ad037539e2336f3

Artist	Arnaud Quercy
Date	2025
Collection	Synesthetic Explorations
Certificate	20250125-0016
Asset code	AQC0820
Version	1
Published	2026-04-09

Published by: Art Quam Anima Publishing New York LLC — publishing.artquamanima.com

Date of publication: 2026-04-09

Persistent URI: https://multimodal.institute/en/nanopubs/2026/02/AQC0820-computational-image-analysis-aqc0820.pdf