AQC0829

Nanopublication — Computational Image Analysis - AQC0829

by Arnaud Quercy · F Major - Research on Harmony - Variation 8 · 2025

Claim 1: Computational Image Analysis - AQC0829

> The artwork F Major [1] - Research on Harmony - Variation 8 (AQC0829) [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]: 2262x3134 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E0DBD2	27.7	yellow-orange	gainsboro
2		C8CAC4	15.7	white	silver
3		E0CAAD	12.9	yellow-orange	wheat
4		B7A99B	11.3	orange	steel gray
5		D2B796	9.4	yellow-orange	tan
6		A19184	5.9	orange	rosybrown
7		2E252E	5.6	red-violet	very dark gray
8		C1936D	4.1	orange	ochre
9		443F50	4.0	violet	dusty mauve
10		7D6F64	3.3	orange	dimgray

Color Families:

Family	%
yellow-orange	50.0
orange	24.6
white	15.7
red-violet	5.6
violet	4.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.196
Mean Local Roughness	0.015
Roughness Uniformity	0.017
Edge Density	0.069
Mean Gradient Magnitude	0.132
Gradient Variance	0.035
Gradient Smoothness	0.0
Directional Coherence	0.032
Pattern Complexity	0.116
Pattern Repetition	1.0
Detail Frequency Ratio	0.607
Spatial Variation	0.096
Texture Consistency	0.428

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.708
Brightness Variance	0.196
Brightness Uniformity	0.723
Brightness Skewness	-1.636
Brightness Entropy	6.965
Rms Contrast	0.196
Michelson Contrast	1.0
Weber Contrast	0.557
Mean Local Contrast	0.017
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.686
Shadow Percentage	9.379
Midtone Percentage	17.228
Highlight Percentage	73.393
Shadow Clipping	0.001
Highlight Clipping	0.033
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.021
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.132
Contrast Clustering	0.572

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.737
Color Clustering	0.877
Color Transition Smoothness	0.671
Transition Uniformity	0.778
Sharp Transition Ratio	0.1
Transition Directionality	0.04
Mean Saturation	0.161
Saturation Variance	0.013
Low Saturation Ratio	0.88
Medium Saturation Ratio	0.12
High Saturation Ratio	0.0

Metric	Value
Saturation Clustering	1.0
Hue Concentration	0.75
Complementary Balance	0.031
Analogous Dominance	0.833
Temperature Bias	0.818

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). F Major - Research on Harmony - Variation 8 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0829.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/01/f-major-research-on-harmony-variation-8_96m.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)

603a113502d94b65e2da5953f0c9e97ea69588419ac7f9f59371146a9e5cdeec

Artist	Arnaud Quercy
Date	2025
Collection	Synesthetic Explorations
Certificate	20250125-0025
Asset code	AQC0829
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/AQC0829-computational-image-analysis-aqc0829.pdf