AQC0745

Nanopublication — Computational Image Analysis - AQC0745

by Arnaud Quercy · C Major - Research on Harmony - Variation 3 · 2024

Claim 1: Computational Image Analysis - AQC0745

> Analysis record [3]: C Major [1] - Research on Harmony - Variation 3 (AQC0745) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2026-02-04.

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]: 2953x3938 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		272024	21.2	red-violet	very dark gray
2		CDC2B3	14.4	yellow-orange	silver
3		B35B40	12.6	red-orange	burnt sienna
4		D13635	9.8	red-orange	crimson
5		A04A2D	9.7	orange	burnt sienna
6		EEC9C8	9.1	red-orange	pink
7		BDB0A0	8.4	yellow-orange	steel gray
8		ED7A10	5.3	orange	darkorange
9		C87362	5.2	red-orange	indianred
10		443E44	4.3	red-violet	dusty mauve
11		240309	0.3	red	very dark red [Accent]
12		FCF5D4	0.3	yellow	lightgoldenrodyellow [Accent]

Color Families:

Family	%
red-orange	36.6
red-violet	25.6
yellow-orange	22.8
orange	15.0
red	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
240309	red	very dark red	15.3
FCF5D4	yellow	lightgoldenrodyellow	17.3

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.241
Mean Local Roughness	0.017
Roughness Uniformity	0.016
Edge Density	0.089
Mean Gradient Magnitude	0.163
Gradient Variance	0.04
Gradient Smoothness	0.0
Directional Coherence	0.012
Pattern Complexity	0.116
Pattern Repetition	1.0
Detail Frequency Ratio	0.598
Spatial Variation	0.184
Texture Consistency	0.613

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.477
Brightness Variance	0.241
Brightness Uniformity	0.494
Brightness Skewness	-0.006
Brightness Entropy	7.359
Rms Contrast	0.241
Michelson Contrast	1.0
Weber Contrast	0.833
Mean Local Contrast	0.021
Contrast Uniformity	0.095
Dynamic Range	1.0
Effective Dynamic Range	0.714
Shadow Percentage	25.9
Midtone Percentage	43.176
Highlight Percentage	30.924
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.048
Fine Contrast	0.009
Medium Contrast	0.026
Coarse Contrast	0.043
Multiscale Contrast Ratio	0.201
Edge Contrast	0.163
Contrast Clustering	0.387

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.768
Color Clustering	0.537

Metric	Value
Color Transition Smoothness	0.578
Transition Uniformity	0.731
Sharp Transition Ratio	0.1
Transition Directionality	0.015
Mean Saturation	0.4
Saturation Variance	0.082
Low Saturation Ratio	0.545
Medium Saturation Ratio	0.218
High Saturation Ratio	0.237
Saturation Clustering	0.999
Hue Concentration	0.881
Complementary Balance	0.0
Analogous Dominance	0.93
Temperature Bias	0.934

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). C Major - Research on Harmony - Variation 3 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0745.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/c-major-research-on-harmony-variation-3_89y.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)

73ff075492cba77e31baa85d66852043f3058bbbecd62f6782bd-de1e8c27a4b3

Artist	Arnaud Quercy
Date	2024
Collection	Synesthetic Explorations
Certificate	20241201-0242
Asset code	AQC0745
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/AQC0745-computational-image-analysis-aqc0745.pdf