AQC0671

Nanopublication — Computational Image Analysis - AQC0671

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

Claim 1: Computational Image Analysis - AQC0671

> The artwork C+ - Research [1] on Harmony - Variation 3 (AQC0671) [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]: 2440x3660 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		BEA096	16.6	orange	rosybrown
2		C4B5B8	16.5	red	silver
3		B79588	15.3	orange	steel gray
4		BAA7AA	13.5	red	steel gray
5		C9ADA4	12.7	red-orange	tan
6		C4BFCA	9.8	violet	thistle
7		B08877	7.8	orange	gray
8		C2CDE0	6.0	blue-violet	lightsteelblue
9		2D2225	1.0	red	very dark gray
10		565661	0.8	violet	dusty mauve
11		B68C42	0.3	yellow-orange	peru [Accent]

Color Families:

Family	%
orange	39.7
red	30.9
red-orange	12.7
violet	10.6
blue-violet	6.0
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
B68C42	yellow-orange	peru	45.7

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.087
Mean Local Roughness	0.01
Roughness Uniformity	0.012
Edge Density	0.008
Mean Gradient Magnitude	0.086
Gradient Variance	0.018
Gradient Smoothness	0.0
Directional Coherence	0.034
Pattern Complexity	0.119
Pattern Repetition	1.0
Detail Frequency Ratio	0.613
Spatial Variation	0.054
Texture Consistency	0.493

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.679
Brightness Variance	0.087
Brightness Uniformity	0.872
Brightness Skewness	-2.699
Brightness Entropy	6.148
Rms Contrast	0.087
Michelson Contrast	1.0
Weber Contrast	0.215
Mean Local Contrast	0.011
Contrast Uniformity	0.0
Dynamic Range	0.929
Effective Dynamic Range	0.212
Shadow Percentage	1.313
Midtone Percentage	35.62
Highlight Percentage	63.067
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.005
Medium Contrast	0.014
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.086
Contrast Clustering	0.507

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.752
Color Clustering	0.526
Color Transition Smoothness	0.78
Transition Uniformity	0.875
Sharp Transition Ratio	0.1

Metric	Value
Transition Directionality	0.039
Mean Saturation	0.172
Saturation Variance	0.009
Low Saturation Ratio	0.907
Medium Saturation Ratio	0.091
High Saturation Ratio	0.002
Saturation Clustering	1.0
Hue Concentration	0.94
Complementary Balance	0.024
Analogous Dominance	0.97
Temperature Bias	0.943

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+ - Research on Harmony - Variation 3 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0671.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/c-research-on-harmony-variation-3_7h6.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)

123431fc12ba038e22a468be3fddd77a3b46c4fe6c596e191489e-f408ff31e38

Artist	Arnaud Quercy
Date	2024
Collection	Synesthetic Explorations
Certificate	20240718-0167
Asset code	AQC0671
Version	1
Published	2026-03-25

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

Date of publication: 2026-03-27

Persistent URI: https://multimodal.institute/en/nanopubs/2026/03/AQC0671-computational-image-analysis-aqc0671.pdf