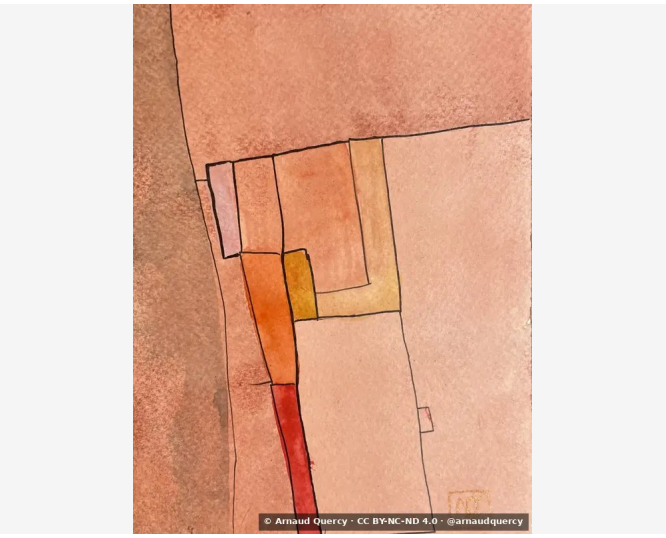
AQC0818 | NAN-COL000136

Nanopublication — Computational Image Analysis - AQC0818

by Arnaud Quercy · C Major - Research on Harmony - Variation 11 · 2025



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0818

K-means clustering (10 colors) performed on artwork C Major - Research on Harmony - Variation 11 (AQC0818) [1] by Arnaud Quercy [2] on 2025-10-03, according to IDS-CMP-2025 [3]. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

CONTEXT

Analysis performed according to IDS-CMP-2025 [3] includes four metric categories: (a) Color distribution via k-means (10 colors), (b) Texture analysis using Haralick features, (c) Brightness and contrast measurements, (d) Spatial pattern characterization. Source image: 2366x3154 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E7AF92	23.8	orange	burlywood
2		DB8E6B	19.3	orange	darksalmon
3		E39D7B	17.1	orange	lightsalmon
4		EEBDA5	14.6	orange	lightpink
5		C68160	12.0	orange	peru
6		B17152	6.6	orange	indianred
7		DF732D	2.8	orange	chocolate
8		C93A25	1.5	red-orange	firebrick
9		3B1A0E	1.4	orange	very dark orange
10		6D4432	0.9	orange	russet
11		FFF2E2	0.3	yellow-orange	white [Accent]

Color Families:

Family	%
orange	98.5
red-orange	1.5
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
FFF2E2	yellow-orange	white	9.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.117
Mean Local Roughness	0.01
Roughness Uniformity	0.013
Edge Density	0.022
Mean Gradient Magnitude	0.097
Gradient Variance	0.024
Gradient Smoothness	0.0
Directional Coherence	0.021
Pattern Complexity	0.112
Pattern Repetition	1.0
Detail Frequency Ratio	0.597
Spatial Variation	0.075
Texture Consistency	0.515

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.66
Brightness Variance	0.117
Brightness Uniformity	0.822
Brightness Skewness	-1.676
Brightness Entropy	6.648
Rms Contrast	0.117
Michelson Contrast	0.969
Weber Contrast	0.318
Mean Local Contrast	0.012
Contrast Uniformity	0.0
Dynamic Range	0.98
Effective Dynamic Range	0.318
Shadow Percentage	2.196
Midtone Percentage	44.273
Highlight Percentage	53.531
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.005
Medium Contrast	0.015
Coarse Contrast	0.028
Multiscale Contrast Ratio	0.185
Edge Contrast	0.097
Contrast Clustering	0.485

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.759
Color Clustering	0.06
Color Transition Smoothness	0.756
Transition Uniformity	0.838
Sharp Transition Ratio	0.1
Transition Directionality	0.028
Mean Saturation	0.455
Saturation Variance	0.015
Low Saturation Ratio	0.054
Medium Saturation Ratio	0.895
High Saturation Ratio	0.05
Saturation Clustering	1.0
Hue Concentration	0.998
Complementary Balance	0.0
Analogous Dominance	1.0
Temperature Bias	1.0

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 Ideamorphic Studies' computational imaging systems.

REFERENCES

[1] Quercy, A. (2025). C Major - Research on Harmony - Variation 11 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0818.html

[2] Quercy, A. (2025). ORCID https://orcid.org/0009-0000-2662-7790

[3] Quercy, A. (2026). Computational Image Analysis Standard. https://ideamorphism.org/en/measurements/2025/09/ids-cmp-2025-computational-image-analysis-standard-5dq9.html

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

CHECKSUM (SHA-256)

ea44ed10812973d308fd012a9d7d51381fce99c0c0ba42707a35eaf1f75783cc

Artist Arnaud Quercy
Date 2025
Collection Harmonic Crossing
Certificate 20250125-0014
Asset code AQC0818
Identifier NAN-COL000136
Version 1
Published 2025-10-03

ISSN: applied for — U.S. ISSN Center, Library of Congress

Published by Art Quam Anima Publishing New York,
an assumed name of AQA Publishing LLC

c/o Northwest Registered Agent, 418 Broadway Ste N
Albany, NY 12207, USA
+1 917-764-5470

NY DOS ID 7624376 · Assumed Name ID 7658709

publishing.artquamanima.com

Last updated: 2026-09-15

Persistent URI: https://ideamorphism.org/en/nanopubs/2025/10/AQC0818-computational-image-analysis-aqc0818.pdf