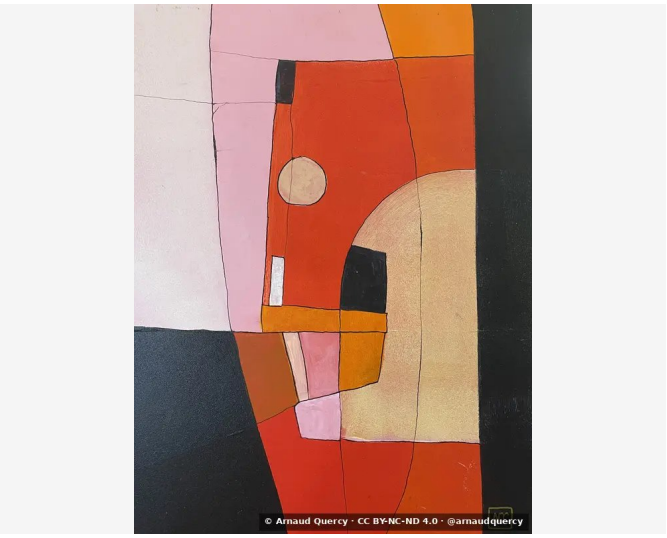
AQC0718 | NAN-COL000236

Nanopublication — Computational Image Analysis - AQC0718

by Arnaud Quercy · C Major - Research on Harmony - Variation 2 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0718

Computational image analysis [3] of artwork C Major [1] - Research on Harmony - Variation 2 (AQC0718) [2] by Arnaud Quercy [2] using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 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]: 3024x4032 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		252324	14.6	gray	very dark gray
2		C84928	14.4	red-orange	chocolate
3		E2D6D7	13.1	white	gainsboro
4		DFB0BA	12.4	red	lightpink
5		BF3519	11.9	red-orange	firebrick
6		373A3C	11.4	gray	darkslategray
7		D9B48B	8.3	orange	tan
8		C59775	6.5	orange	rosybrown
9		D87616	4.5	orange	darkgoldenrod
10		535961	2.9	blue-violet	grayish purple
11		FCE3AB	0.3	yellow-orange	navajowhite [Accent]
12		FAF2FA	0.3	red-violet	white [Accent]
13		686538	0.3	yellow	dark brown [Accent]

Color Families:

Family	%
red-orange	26.3
gray	26.0
orange	19.3
white	13.1
red	12.4
blue-violet	2.9
yellow-orange	0.3
red-violet	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
FCE3AB	yellow-orange	navajowhite	31.0
FAF2FA	red-violet	white	5.0
686538	yellow	dark brown	26.7

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.25
Mean Local Roughness	0.021
Roughness Uniformity	0.022
Edge Density	0.084
Mean Gradient Magnitude	0.157
Gradient Variance	0.051
Gradient Smoothness	0.0
Directional Coherence	0.015
Pattern Complexity	0.123
Pattern Repetition	1.0
Detail Frequency Ratio	0.644
Spatial Variation	0.167
Texture Consistency	0.635

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.493
Brightness Variance	0.25
Brightness Uniformity	0.492
Brightness Skewness	0.072
Brightness Entropy	7.49
Rms Contrast	0.25
Michelson Contrast	1.0
Weber Contrast	0.813
Mean Local Contrast	0.022
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.729
Shadow Percentage	28.821
Midtone Percentage	35.89
Highlight Percentage	35.289
Shadow Clipping	0.001
Highlight Clipping	0.003
Tonal Balance	0.157
Fine Contrast	0.013
Medium Contrast	0.027
Coarse Contrast	0.037
Multiscale Contrast Ratio	0.34
Edge Contrast	0.157
Contrast Clustering	0.365

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.723
Color Clustering	0.711
Color Transition Smoothness	0.593
Transition Uniformity	0.65
Sharp Transition Ratio	0.1
Transition Directionality	0.023
Mean Saturation	0.388
Saturation Variance	0.108
Low Saturation Ratio	0.517
Medium Saturation Ratio	0.174
High Saturation Ratio	0.309
Saturation Clustering	0.999
Hue Concentration	0.808
Complementary Balance	0.082
Analogous Dominance	0.915
Temperature Bias	0.836

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 2 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0718.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/c-major-research-on-harmony-variation-2_7zg.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

WHERE THIS WORK LIVES

THEMATIC ELEMENTS

chromesthetic mapping · C Major triad · synesthetic art · acrylic painting · harmonic visualization · musical color translation · geometric abstraction · Synesthetic Explorations

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

0a62097920c3b9a0f2b986eb0ea9fd529d4b702ec7c6198e729430d0140afadb

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