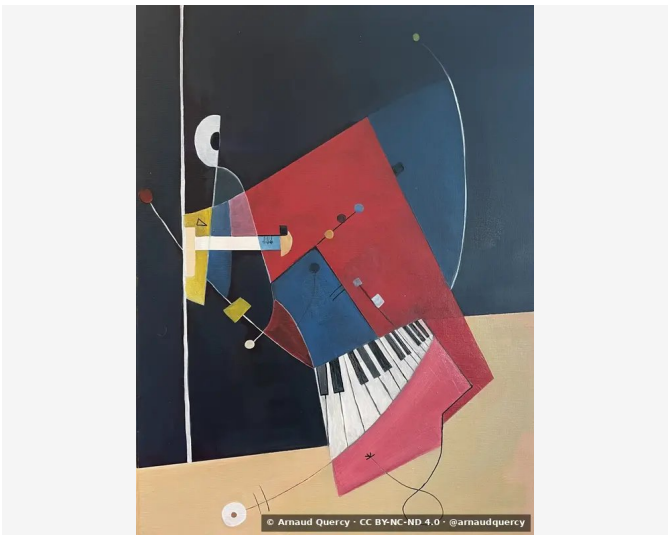
AQC0500 | NAN-COL000432

Nanopublication — Computational Image Analysis - AQC0500

by Arnaud Quercy · Harmonic Reverie Loves Chromatic Journey · 2023



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0500

The artwork Harmonic Reverie Loves Chromatic Journey (AQC0500) [1] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-10-03. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

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: 1920x2560 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		36383D	21.9	gray	grayish purple
2		21232C	13.1	blue-violet	very dark gray
3		3A4B5A	12.6	blue	grayish purple
4		A64247	12.1	red-orange	burnt sienna
5		3F5971	11.4	blue-violet	grayish purple
6		DABB90	11.2	yellow-orange	burlywood
7		C0AD8D	7.9	yellow-orange	tan
8		E3E0DD	4.7	white	gainsboro
9		C46171	4.6	red	indianred
10		C4AA41	0.7	yellow-orange	peru
11		9D6F57	0.3	orange	burnt sienna [Accent]
12		E2CC5B	0.3	yellow	sandybrown [Accent]
13		768767	0.3	yellow-green	gray [Accent]

Color Families:

Family	%
blue-violet	24.4
gray	21.9
yellow-orange	19.7
blue	12.6
red-orange	12.1
white	4.7
red	4.6
orange	0.3
yellow	0.3
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
9D6F57	orange	burnt sienna	25.8
E2CC5B	yellow	sandybrown	58.3
768767	yellow-green	gray	19.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.227
Mean Local Roughness	0.016
Roughness Uniformity	0.024
Edge Density	0.04
Mean Gradient Magnitude	0.115
Gradient Variance	0.062
Gradient Smoothness	0.0
Directional Coherence	0.178
Pattern Complexity	0.127
Pattern Repetition	1.0
Detail Frequency Ratio	0.614
Spatial Variation	0.145
Texture Consistency	0.376

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.393
Brightness Variance	0.227
Brightness Uniformity	0.424
Brightness Skewness	0.834
Brightness Entropy	7.246
Rms Contrast	0.227
Michelson Contrast	1.0
Weber Contrast	0.786
Mean Local Contrast	0.016
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.667
Shadow Percentage	54.788
Midtone Percentage	22.431
Highlight Percentage	22.781
Shadow Clipping	0.007
Highlight Clipping	0.034
Tonal Balance	0.0
Fine Contrast	0.009
Medium Contrast	0.02
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.115
Contrast Clustering	0.624

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.788
Color Clustering	0.764
Color Transition Smoothness	0.695
Transition Uniformity	0.588
Sharp Transition Ratio	0.1
Transition Directionality	0.175
Mean Saturation	0.329
Saturation Variance	0.031
Low Saturation Ratio	0.407
Medium Saturation Ratio	0.588
High Saturation Ratio	0.005
Saturation Clustering	0.999
Hue Concentration	0.148
Complementary Balance	0.258
Analogous Dominance	0.507
Temperature Bias	-0.006

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. (2023). Harmonic Reverie Loves Chromatic Journey - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0500.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

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