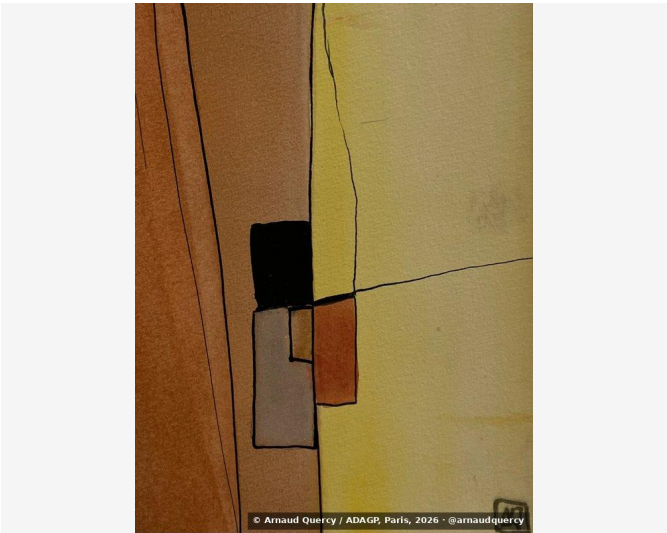


Nanopublication – Computational Image Analysis – AQC1064

by Arnaud Quercy · Watercolor Study in C Major No. 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1064

The artwork Watercolor Study in C Major No. 1 (AQC1064) [1] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-07-13. 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: 1424x1899 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		9F8D55	20.0	yellow-orange	peru
2		814C21	16.5	orange	russet
3		A49360	15.3	yellow-orange	ochre
4		885A32	12.1	orange	burnt sienna
5		753B10	10.2	orange	russet
6		A48D3B	10.0	yellow-orange	darkgoldenrod
7		927C4C	7.1	yellow-orange	dimgray
8		070300	4.2	black	black
9		6C553E	3.6	orange	dark brown
10		402813	1.2	orange	very dark orange

Color Families:

Family	%
yellow-orange	52.3
orange	43.5
black	4.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.141
Mean Local Roughness	0.012
Roughness Uniformity	0.01
Edge Density	0.009
Mean Gradient Magnitude	0.101
Gradient Variance	0.02
Gradient Smoothness	0.0
Directional Coherence	0.032
Pattern Complexity	0.13
Pattern Repetition	1.0
Detail Frequency Ratio	0.607
Spatial Variation	0.108
Texture Consistency	0.397

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.435
Brightness Variance	0.141
Brightness Uniformity	0.676
Brightness Skewness	-1.059
Brightness Entropy	6.338
Rms Contrast	0.141
Michelson Contrast	1.0
Weber Contrast	0.507
Mean Local Contrast	0.013
Contrast Uniformity	0.046
Dynamic Range	0.702
Effective Dynamic Range	0.376
Shadow Percentage	20.37
Midtone Percentage	79.629
Highlight Percentage	0.001
Shadow Clipping	0.017
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.007
Medium Contrast	0.017
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.101
Contrast Clustering	0.603

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.744
Color Clustering	0.518
Color Transition Smoothness	0.728
Transition Uniformity	0.834
Sharp Transition Ratio	0.1
Transition Directionality	0.028
Mean Saturation	0.6
Saturation Variance	0.03
Low Saturation Ratio	0.002
Medium Saturation Ratio	0.716
High Saturation Ratio	0.283
Saturation Clustering	0.999
Hue Concentration	0.978
Complementary Balance	0.001
Analogous Dominance	0.987
Temperature Bias	0.976

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. (2026). Watercolor Study in C Major No. 1 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1064.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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