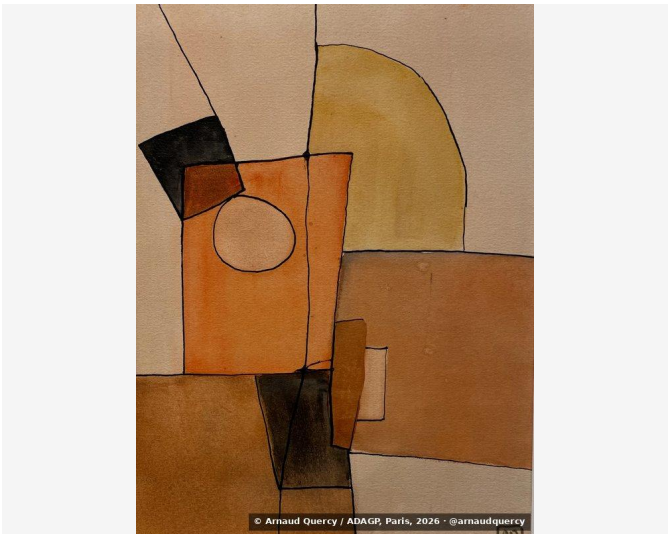
AQC1083 | NAN-COL000646

Nanopublication — Computational Image Analysis - AQC1083

by Arnaud Quercy · Watercolor Study in A Minor No. 2 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1083

Computational image analysis of artwork Watercolor Study in A Minor No. 2 (AQC1083) [1] by Arnaud Quercy [2], performed according to IDS-CMP-2025 [3], 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 2026-07-13.

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: 2130x2840 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		AE8E70	17.1	orange	rosybrown
2		884E1D	14.0	orange	russet
3		A87A40	12.8	orange	peru
4		BB9B7D	11.7	orange	ochre
5		935C2D	11.6	orange	burnt sienna
6		B06121	10.9	orange	burnt sienna
7		743B0C	7.2	orange	russet
8		997E63	6.8	orange	gray
9		120904	5.1	black	black
10		352213	2.8	orange	very dark orange
11		942303	0.3	red-orange	darkred [Accent]
12		5F4E38	0.3	yellow-orange	dark brown [Accent]

Color Families:

Family	%
orange	94.9
black	5.1
red-orange	0.3
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
942303	red-orange	darkred	64.4
5F4E38	yellow-orange	dark brown	15.5

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.152
Mean Local Roughness	0.017
Roughness Uniformity	0.012
Edge Density	0.021
Mean Gradient Magnitude	0.129
Gradient Variance	0.024
Gradient Smoothness	0.0
Directional Coherence	0.005
Pattern Complexity	0.139
Pattern Repetition	1.0
Detail Frequency Ratio	0.617
Spatial Variation	0.099
Texture Consistency	0.541

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.446
Brightness Variance	0.152
Brightness Uniformity	0.659
Brightness Skewness	-0.943
Brightness Entropy	7.045
Rms Contrast	0.152
Michelson Contrast	1.0
Weber Contrast	0.567
Mean Local Contrast	0.018
Contrast Uniformity	0.256
Dynamic Range	0.808
Effective Dynamic Range	0.541
Shadow Percentage	17.121
Midtone Percentage	81.396
Highlight Percentage	1.483
Shadow Clipping	0.058
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.022
Coarse Contrast	0.032
Multiscale Contrast Ratio	0.337
Edge Contrast	0.129
Contrast Clustering	0.459

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.747
Color Clustering	0.512
Color Transition Smoothness	0.662
Transition Uniformity	0.81
Sharp Transition Ratio	0.1
Transition Directionality	0.004
Mean Saturation	0.599
Saturation Variance	0.049
Low Saturation Ratio	0.033
Medium Saturation Ratio	0.549
High Saturation Ratio	0.417
Saturation Clustering	0.998
Hue Concentration	0.994
Complementary Balance	0.001
Analogous Dominance	0.997
Temperature Bias	0.998

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 A Minor No. 2 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1083.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)

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