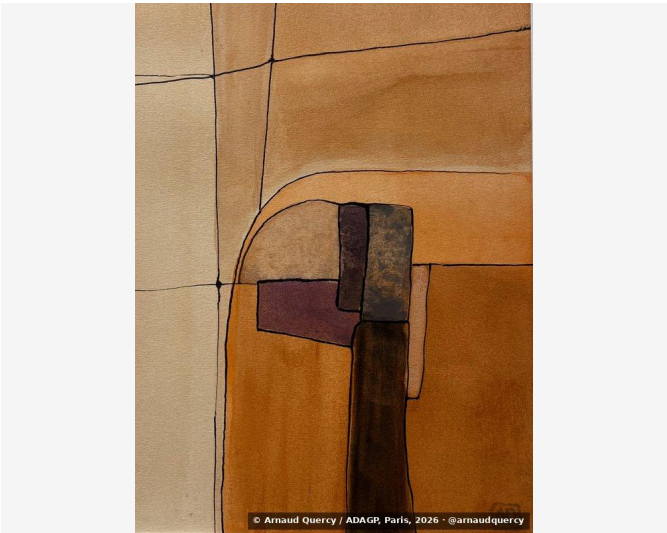


Nanopublication – Computational Image Analysis –
AQC1079

by Arnaud Quercy · Watercolor Study in D Minor No. 4 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1079

The artwork Watercolor Study in D Minor No. 4 (AQC1079) ^[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: 1895x2527 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		AA7544	13.7	orange	peru
2		B69976	13.1	orange	rosybrown
3		824006	13.0	orange	russet
4		B58658	12.8	orange	indianred
5		A1652E	12.2	orange	burnt sienna
6		985210	11.7	orange	russet
7		C4AA88	9.2	yellow-orange	tan
8		1E0C03	6.6	red-orange	very dark gray
9		5B3A2F	4.0	orange	dark brown
10		3C2317	3.8	orange	very dark orange

Color Families:

Family	%
orange	84.2
yellow-orange	9.2
red-orange	6.6

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.171
Mean Local Roughness	0.022
Roughness Uniformity	0.014
Edge Density	0.062
Mean Gradient Magnitude	0.164
Gradient Variance	0.033
Gradient Smoothness	0.0
Directional Coherence	0.001
Pattern Complexity	0.137
Pattern Repetition	1.0
Detail Frequency Ratio	0.629
Spatial Variation	0.139
Texture Consistency	0.597

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.444
Brightness Variance	0.171
Brightness Uniformity	0.615
Brightness Skewness	-0.575
Brightness Entropy	7.317
Rms Contrast	0.171
Michelson Contrast	1.0
Weber Contrast	0.691
Mean Local Contrast	0.022
Contrast Uniformity	0.289
Dynamic Range	0.882
Effective Dynamic Range	0.584
Shadow Percentage	25.033
Midtone Percentage	67.976
Highlight Percentage	6.991
Shadow Clipping	0.015
Highlight Clipping	0.0
Tonal Balance	0.104
Fine Contrast	0.013
Medium Contrast	0.027
Coarse Contrast	0.039
Multiscale Contrast Ratio	0.325
Edge Contrast	0.164
Contrast Clustering	0.403

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.747
Color Clustering	0.586
Color Transition Smoothness	0.571
Transition Uniformity	0.747
Sharp Transition Ratio	0.1
Transition Directionality	0.002
Mean Saturation	0.634
Saturation Variance	0.055
Low Saturation Ratio	0.049
Medium Saturation Ratio	0.563
High Saturation Ratio	0.388
Saturation Clustering	0.998
Hue Concentration	0.992
Complementary Balance	0.0
Analogous Dominance	0.999
Temperature Bias	0.999

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 D Minor No. 4 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1079.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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Artist Arnaud Quercy

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