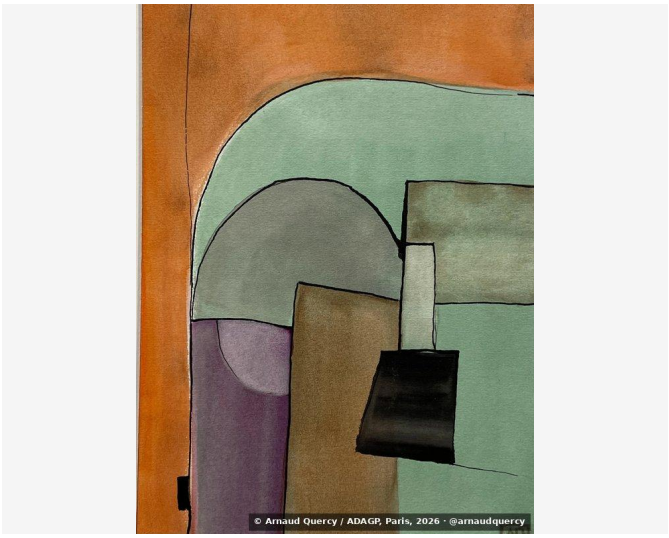
AQC1076 | NAN-COL000639

Nanopublication — Computational Image Analysis - AQC1076

by Arnaud Quercy · Watercolor Study in G Minor M7 No. 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1076

K-means clustering (10 colors) performed on artwork Watercolor Study in G Minor M7 No. 1 (AQC1076) [1] by Arnaud Quercy [2] on 2026-07-13, according to IDS-CMP-2025 [3]. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

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: 1622x2163 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		7C8F76	20.0	yellow-green	gray
2		92A88D	14.4	yellow-green	darkseagreen
3		BD743A	14.4	orange	peru
4		AE5D1B	12.5	orange	burnt sienna
5		747563	11.7	yellow-green	dimgray
6		725934	10.3	yellow-orange	dark brown
7		5F4B53	6.5	red	dusty mauve
8		0A0806	5.2	black	black
9		BBBBA7	2.6	yellow-green	steel gray
10		362A26	2.4	red-orange	very dark gray
11		E1E0D2	0.3	yellow	gainsboro [Accent]

Color Families:

Family	%
yellow-green	48.7
orange	26.9
yellow-orange	10.3
red	6.5
black	5.2
red-orange	2.4
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
E1E0D2	yellow	gainsboro	7.3

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.148
Mean Local Roughness	0.021
Roughness Uniformity	0.017
Edge Density	0.056
Mean Gradient Magnitude	0.157
Gradient Variance	0.043
Gradient Smoothness	0.0
Directional Coherence	0.007
Pattern Complexity	0.14
Pattern Repetition	1.0
Detail Frequency Ratio	0.623
Spatial Variation	0.08
Texture Consistency	0.696

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.46
Brightness Variance	0.148
Brightness Uniformity	0.678
Brightness Skewness	-1.121
Brightness Entropy	6.973
Rms Contrast	0.148
Michelson Contrast	1.0
Weber Contrast	0.519
Mean Local Contrast	0.022
Contrast Uniformity	0.114
Dynamic Range	0.996
Effective Dynamic Range	0.561
Shadow Percentage	13.393
Midtone Percentage	82.868
Highlight Percentage	3.739
Shadow Clipping	0.082
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.013
Medium Contrast	0.027
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.157
Contrast Clustering	0.304

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.753
Color Clustering	0.572
Color Transition Smoothness	0.591
Transition Uniformity	0.681
Sharp Transition Ratio	0.1
Transition Directionality	0.006
Mean Saturation	0.396
Saturation Variance	0.076
Low Saturation Ratio	0.558
Medium Saturation Ratio	0.224
High Saturation Ratio	0.218
Saturation Clustering	0.997
Hue Concentration	0.816
Complementary Balance	0.004
Analogous Dominance	0.797
Temperature Bias	0.713

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 G Minor M7 No. 1 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1076.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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