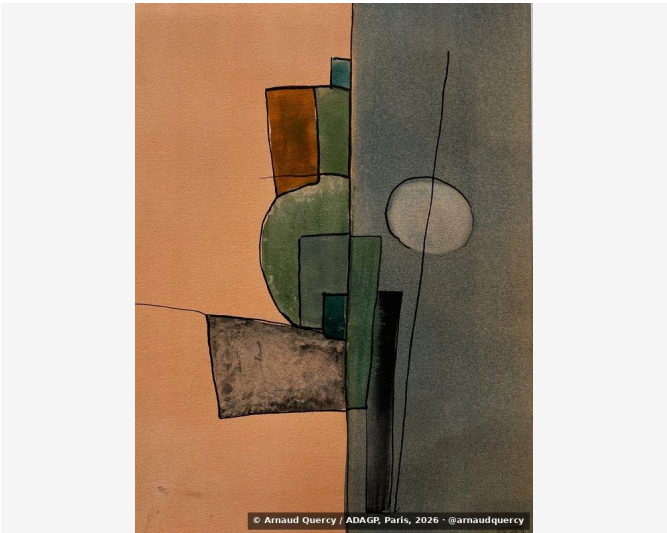


Nanopublication – Computational Image Analysis –
AQC1073

by Arnaud Quercy · Watercolor Study in D Major No. 2 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1073

Computational image analysis of artwork Watercolor Study in D Major No. 2 (AQC1073) ^[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: 1809x2412 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		C98A5D	20.6	orange	peru
2		BE7E51	17.6	orange	indianred
3		5B5748	17.2	yellow	dark brown
4		4B4A3B	15.6	yellow	darkslategray
5		6F6453	11.3	yellow-orange	dimgray
6		383A2A	6.9	yellow-green	darkslategrey
7		0C0C08	4.7	black	black
8		8E7963	3.8	orange	gray
9		6E3605	2.1	orange	russet
10		C0C0C0	0.2	gray	silver
11		082F25	0.3	green	very dark cyan [Accent]

Color Families:

Family	%
orange	44.1
yellow	32.8
yellow-orange	11.3
yellow-green	6.9
black	4.7
green	0.3
gray	0.2

Accent Colors:

Hex	Family	Name	Chroma
082F25	green	very dark cyan	16.1

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.156
Mean Local Roughness	0.022
Roughness Uniformity	0.013
Edge Density	0.103
Mean Gradient Magnitude	0.166
Gradient Variance	0.029
Gradient Smoothness	0.0
Directional Coherence	0.004
Pattern Complexity	0.136
Pattern Repetition	1.0
Detail Frequency Ratio	0.636
Spatial Variation	0.115
Texture Consistency	0.535

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.412
Brightness Variance	0.156
Brightness Uniformity	0.621
Brightness Skewness	-0.379
Brightness Entropy	6.876
Rms Contrast	0.156
Michelson Contrast	1.0
Weber Contrast	0.605
Mean Local Contrast	0.023
Contrast Uniformity	0.357
Dynamic Range	0.902
Effective Dynamic Range	0.463
Shadow Percentage	34.574
Midtone Percentage	65.162
Highlight Percentage	0.265
Shadow Clipping	0.12
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.013
Medium Contrast	0.028
Coarse Contrast	0.038
Multiscale Contrast Ratio	0.339
Edge Contrast	0.166
Contrast Clustering	0.465

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.744
Color Clustering	0.624
Color Transition Smoothness	0.554
Transition Uniformity	0.778
Sharp Transition Ratio	0.1
Transition Directionality	0.002
Mean Saturation	0.389
Saturation Variance	0.044
Low Saturation Ratio	0.411
Medium Saturation Ratio	0.549
High Saturation Ratio	0.041
Saturation Clustering	0.997
Hue Concentration	0.929
Complementary Balance	0.004
Analogous Dominance	0.961
Temperature Bias	0.867

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 Major No. 2 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1073.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)

37f7a62b6ad673940455799b62b62f641ab8bb268581d597dc06132eeb7d491e

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