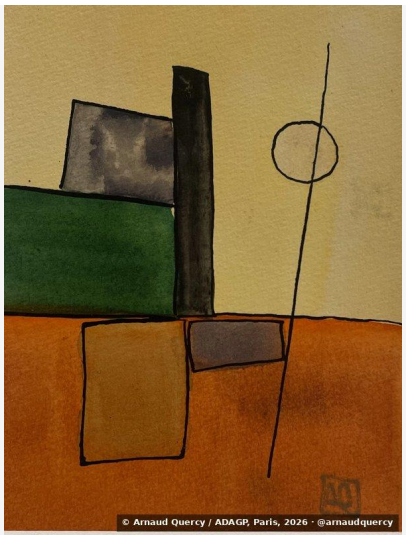
AQC1048

Nanopublication — Computational Image Analysis - AQC1048

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



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1048

The artwork Watercolor Study in D Major No. 1 (AQC1048) [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: 1646x2195 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		B2995D	19.9	yellow-orange	ochre
2		A98F53	19.2	yellow-orange	peru
3		8B4008	18.0	orange	russet
4		964D10	10.4	orange	russet
5		253617	10.2	yellow-green	darkslategray
6		7B3706	8.2	orange	russet
7		161108	6.6	yellow-orange	black
8		4C3C2B	4.2	orange	dark brown
9		6A5B46	2.4	yellow-orange	dark brown
10		DFD4CA	0.7	orange	lightgray

Color Families:

Family	%
yellow-orange	48.2
orange	41.6
yellow-green	10.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.177
Mean Local Roughness	0.013
Roughness Uniformity	0.009
Edge Density	0.008
Mean Gradient Magnitude	0.101
Gradient Variance	0.017
Gradient Smoothness	0.0
Directional Coherence	0.007
Pattern Complexity	0.129
Pattern Repetition	1.0
Detail Frequency Ratio	0.601
Spatial Variation	0.125
Texture Consistency	0.684

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.395
Brightness Variance	0.177
Brightness Uniformity	0.552
Brightness Skewness	-0.06
Brightness Entropy	6.736
Rms Contrast	0.177
Michelson Contrast	1.0
Weber Contrast	0.727
Mean Local Contrast	0.013
Contrast Uniformity	0.221
Dynamic Range	0.945
Effective Dynamic Range	0.518
Shadow Percentage	44.655
Midtone Percentage	54.586
Highlight Percentage	0.76
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.017
Coarse Contrast	0.025
Multiscale Contrast Ratio	0.319
Edge Contrast	0.101
Contrast Clustering	0.316

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.774
Color Clustering	0.642
Color Transition Smoothness	0.725
Transition Uniformity	0.862
Sharp Transition Ratio	0.1
Transition Directionality	0.008
Mean Saturation	0.663
Saturation Variance	0.053
Low Saturation Ratio	0.031
Medium Saturation Ratio	0.552
High Saturation Ratio	0.417
Saturation Clustering	0.999
Hue Concentration	0.938
Complementary Balance	0.0
Analogous Dominance	0.986
Temperature Bias	0.904

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. 1 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1048.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/2025/11/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)

ce093fa906484c7e71ace182c07a4b461cabb63ae032527de81f9b18b32f303d

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