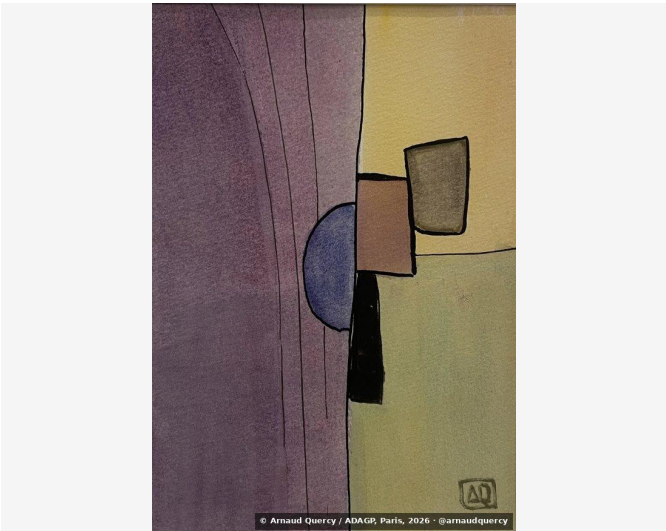


AQC1102

Nanopublication – Computational Image Analysis – AQC1102

by Arnaud Quercy · Watercolor Study in D Minor No. 6 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1102

K-means clustering (10 colors) performed on artwork Watercolor Study in D Minor No. 6 (AQC1102) [1] by Arnaud Quercy [2] on 2026-10-02, 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: 1589x2319 pixels. Analysis date: 2026-10-02.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		634F5A	17.9	red-violet	dusty mauve
2		56434E	16.8	red-violet	dusty mauve
3		B39D66	13.0	yellow-orange	ochre
4		735D65	11.6	red	dusty mauve
5		968C61	11.4	yellow	gray
6		888057	11.2	yellow	grey
7		877174	5.5	red	dimgray
8		765E46	4.4	orange	dimgrey
9		44333A	4.2	red	dusty mauve
10		0C0706	4.1	black	black

Color Families:

Family	%
red-violet	34.7
yellow	22.6
red	21.3
yellow-orange	13.0
orange	4.4
black	4.1

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.141
Mean Local Roughness	0.021
Roughness Uniformity	0.012
Edge Density	0.087
Mean Gradient Magnitude	0.159
Gradient Variance	0.027
Gradient Smoothness	0.0
Directional Coherence	0.013
Pattern Complexity	0.128
Pattern Repetition	1.0
Detail Frequency Ratio	0.628
Spatial Variation	0.097
Texture Consistency	0.373

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.408
Brightness Variance	0.141
Brightness Uniformity	0.655
Brightness Skewness	-0.394
Brightness Entropy	6.935
Rms Contrast	0.141
Michelson Contrast	1.0
Weber Contrast	0.553
Mean Local Contrast	0.022
Contrast Uniformity	0.369
Dynamic Range	0.816
Effective Dynamic Range	0.427
Shadow Percentage	30.589
Midtone Percentage	68.572
Highlight Percentage	0.839
Shadow Clipping	0.037
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.013
Medium Contrast	0.027
Coarse Contrast	0.038
Multiscale Contrast Ratio	0.338
Edge Contrast	0.159
Contrast Clustering	0.627

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.74
Color Clustering	0.751
Color Transition Smoothness	0.571
Transition Uniformity	0.79
Sharp Transition Ratio	0.1
Transition Directionality	0.014
Mean Saturation	0.301
Saturation Variance	0.016
Low Saturation Ratio	0.549
Medium Saturation Ratio	0.436
High Saturation Ratio	0.016
Saturation Clustering	0.998
Hue Concentration	0.757
Complementary Balance	0.017
Analogous Dominance	0.671
Temperature Bias	0.95

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. 6 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1102.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>

WHERE THIS WORK LIVES

Series: D minor
Collection: Harmonic Crossing

DOCUMENTED AT

Gallery – Watercolor Study in D Minor No. 6

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

CHECKSUM (SHA-256)

02f93ee7aaa1b2b99f209b0cf84a7de32cad7291abe4dc0efd5939b455824

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