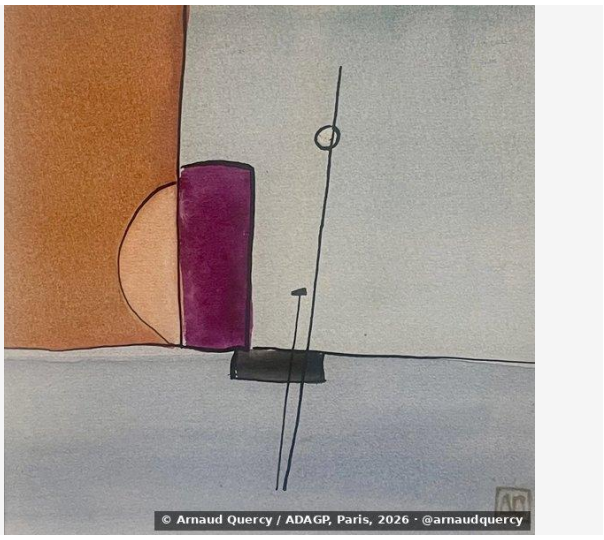
AQC1071 | NAN-COL000634

Nanopublication — Computational Image Analysis - AQC1071

by Arnaud Quercy · Watercolor Study in F Minor No. 3 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1071

Analysis record: Watercolor Study in F Minor No. 3 (AQC1071) [1] by Arnaud Quercy [2], per IDS-CMP-2025 [3]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 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: 1709x1709 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		9D9E9D	22.2	gray	steel gray
2		ABAAA4	21.3	gray	steel gray
3		B7B6AE	15.5	gray	steel gray
4		8E9093	12.4	gray	lightslategray
5		A06132	9.7	orange	burnt sienna
6		AE734A	8.6	orange	peru
7		641D40	3.6	red	dusty mauve
8		C99671	2.7	orange	darksalmon
9		332A2B	2.6	gray	very dark gray
10		714757	1.4	red	dusty mauve
11		3A0704	0.3	red-orange	very dark red [Accent]

Color Families:

Family	%
gray	74.0
orange	21.1
red	5.0
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
3A0704	red-orange	very dark red	28.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.133
Mean Local Roughness	0.016
Roughness Uniformity	0.012
Edge Density	0.022
Mean Gradient Magnitude	0.133
Gradient Variance	0.025
Gradient Smoothness	0.0
Directional Coherence	0.003
Pattern Complexity	0.127
Pattern Repetition	1.0
Detail Frequency Ratio	0.614
Spatial Variation	0.081
Texture Consistency	0.323

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.58
Brightness Variance	0.133
Brightness Uniformity	0.77
Brightness Skewness	-1.537
Brightness Entropy	6.669
Rms Contrast	0.133
Michelson Contrast	1.0
Weber Contrast	0.406
Mean Local Contrast	0.017
Contrast Uniformity	0.214
Dynamic Range	0.875
Effective Dynamic Range	0.478
Shadow Percentage	6.961
Midtone Percentage	64.843
Highlight Percentage	28.196
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.009
Medium Contrast	0.021
Coarse Contrast	0.033
Multiscale Contrast Ratio	0.276
Edge Contrast	0.133
Contrast Clustering	0.677

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.772
Color Clustering	0.463
Color Transition Smoothness	0.664
Transition Uniformity	0.828
Sharp Transition Ratio	0.1
Transition Directionality	0.002
Mean Saturation	0.199
Saturation Variance	0.067
Low Saturation Ratio	0.737
Medium Saturation Ratio	0.205
High Saturation Ratio	0.059
Saturation Clustering	1.0
Hue Concentration	0.922
Complementary Balance	0.004
Analogous Dominance	0.989
Temperature Bias	0.983

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 F Minor No. 3 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1071.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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