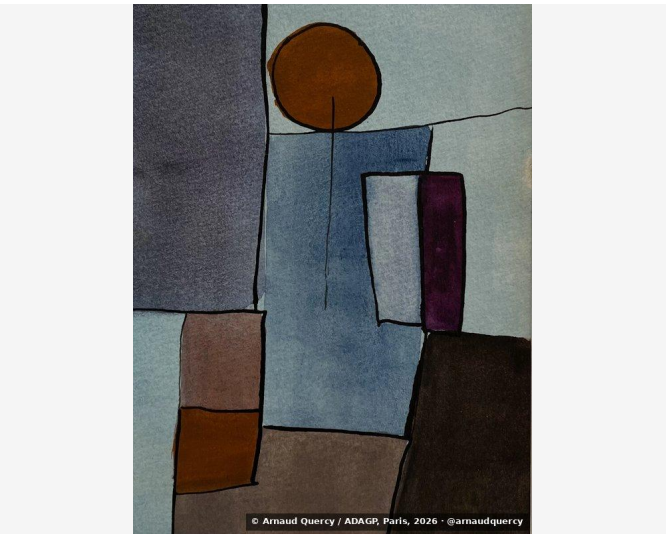
AQC1055 | NAN-COL000618

Nanopublication — Computational Image Analysis - AQC1055

by Arnaud Quercy · Watercolor Study in F minor- No. 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1055

Computational image analysis of artwork Watercolor Study in F minor- No. 1 (AQC1055) [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: 1694x2258 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		8C9895	13.8	green	lightslategray
2		7D8A87	11.7	green	gray
3		564236	11.4	orange	dark brown
4		444B56	11.4	blue-violet	grayish purple
5		201413	10.8	red-orange	black
6		515D69	10.7	blue-violet	grayish purple
7		61717B	7.9	blue	dimgray
8		363943	7.8	blue-violet	grayish purple
9		0E0906	7.6	black	black
10		502303	6.8	orange	maroon

Color Families:

Family	%
blue-violet	30.0
green	25.5
orange	18.2
red-orange	10.8
blue	7.9
black	7.6

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.173
Mean Local Roughness	0.018
Roughness Uniformity	0.013
Edge Density	0.078
Mean Gradient Magnitude	0.141
Gradient Variance	0.026
Gradient Smoothness	0.0
Directional Coherence	0.003
Pattern Complexity	0.126
Pattern Repetition	1.0
Detail Frequency Ratio	0.617
Spatial Variation	0.102
Texture Consistency	0.568

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.324
Brightness Variance	0.173
Brightness Uniformity	0.465
Brightness Skewness	0.046
Brightness Entropy	7.177
Rms Contrast	0.173
Michelson Contrast	1.0
Weber Contrast	0.863
Mean Local Contrast	0.019
Contrast Uniformity	0.267
Dynamic Range	0.737
Effective Dynamic Range	0.533
Shadow Percentage	55.796
Midtone Percentage	44.188
Highlight Percentage	0.016
Shadow Clipping	0.096
Highlight Clipping	0.0
Tonal Balance	0.018
Fine Contrast	0.011
Medium Contrast	0.023
Coarse Contrast	0.034
Multiscale Contrast Ratio	0.327
Edge Contrast	0.141
Contrast Clustering	0.432

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.739
Color Clustering	0.879
Color Transition Smoothness	0.609
Transition Uniformity	0.796
Sharp Transition Ratio	0.1
Transition Directionality	0.004
Mean Saturation	0.315
Saturation Variance	0.069
Low Saturation Ratio	0.562
Medium Saturation Ratio	0.333
High Saturation Ratio	0.105
Saturation Clustering	0.997
Hue Concentration	0.301
Complementary Balance	0.338
Analogous Dominance	0.648
Temperature Bias	0.318

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. 1 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1055.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

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