

Nanopublication – Computational Image Analysis –
AQC1050

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



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1050

The artwork Watercolor Study in F Minor No. 1 (AQC1050) ^[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: 1780x2374 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		787985	29.8	violet	dusty mauve
2		81818C	15.1	violet	dusty mauve
3		2D1A36	14.4	red-violet	very dark purple
4		70727D	13.6	violet	dusty mauve
5		251029	10.0	red-violet	very dark purple
6		382444	8.6	red-violet	very dark purple
7		0E0507	6.1	black	black
8		592505	1.5	orange	maroon
9		5B575C	0.7	gray	dusty mauve
10		ADAFB5	0.2	gray	steel gray

Color Families:

Family	%
violet	58.4
red-violet	33.0
black	6.1
orange	1.5
gray	0.9

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.18
Mean Local Roughness	0.013
Roughness Uniformity	0.009
Edge Density	0.007
Mean Gradient Magnitude	0.091
Gradient Variance	0.013
Gradient Smoothness	0.0
Directional Coherence	0.015
Pattern Complexity	0.134
Pattern Repetition	1.0
Detail Frequency Ratio	0.612
Spatial Variation	0.141
Texture Consistency	0.396

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.336
Brightness Variance	0.18
Brightness Uniformity	0.465
Brightness Skewness	-0.427
Brightness Entropy	6.131
Rms Contrast	0.18
Michelson Contrast	1.0
Weber Contrast	0.805
Mean Local Contrast	0.012
Contrast Uniformity	0.217
Dynamic Range	0.804
Effective Dynamic Range	0.467
Shadow Percentage	40.885
Midtone Percentage	58.917
Highlight Percentage	0.198
Shadow Clipping	0.055
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.015
Coarse Contrast	0.022
Multiscale Contrast Ratio	0.376
Edge Contrast	0.091
Contrast Clustering	0.604

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.748
Color Clustering	0.883
Color Transition Smoothness	0.745
Transition Uniformity	0.896
Sharp Transition Ratio	0.1
Transition Directionality	0.017
Mean Saturation	0.293
Saturation Variance	0.06
Low Saturation Ratio	0.601
Medium Saturation Ratio	0.34
High Saturation Ratio	0.058
Saturation Clustering	0.998
Hue Concentration	0.858
Complementary Balance	0.006
Analogous Dominance	0.835
Temperature Bias	0.146

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/AQC1050.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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Artist Arnaud Quercy

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