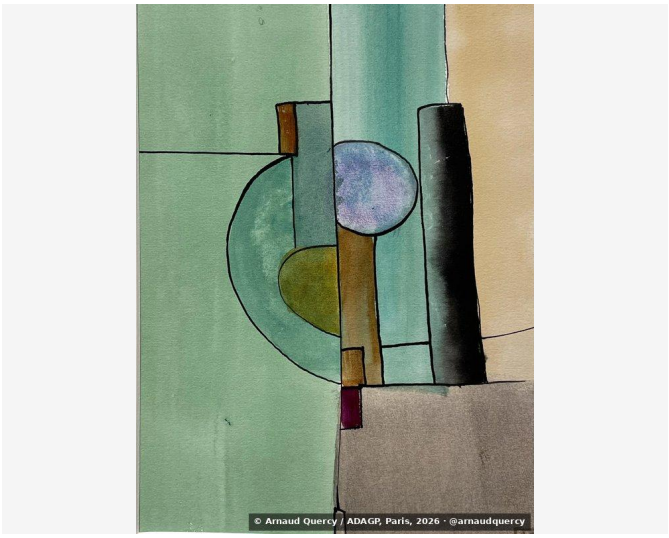
AQC1075 | NAN-COL000638

Nanopublication — Computational Image Analysis - AQC1075

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



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1075

K-means clustering (10 colors) performed on artwork Watercolor Study in F# Minor No. 1 (AQC1075) [1] by Arnaud Quercy [2] on 2026-07-13, 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: 1527x2036 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		89A88B	25.3	yellow-green	darkseagreen
2		789B80	21.5	yellow-green	gray
3		C8B28D	12.3	yellow-orange	tan
4		598171	8.5	green	dimgray
5		766B5A	7.3	yellow-orange	dimgrey
6		9DB4A7	6.8	yellow-green	steel gray
7		8E8172	6.8	yellow-orange	grey
8		090706	6.1	black	black
9		63561A	3.6	yellow-orange	dark brown
10		3A3B35	1.8	gray	darkslategray
11		3B0315	0.3	red	very dark red [Accent]
12		582A03	0.3	orange	maroon [Accent]
13		7284A3	0.3	blue-violet	grayish purple [Accent]
14		898431	0.3	yellow	olivedrab [Accent]

Color Families:

Family	%
yellow-green	53.7
yellow-orange	30.0
green	8.5
black	6.1
gray	1.8
red	0.3
orange	0.3
blue-violet	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
3B0315	red	very dark red	28.3
582A03	orange	maroon	36.7
7284A3	blue-violet	grayish purple	19.0
898431	yellow	olivedrab	44.9

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.167
Mean Local Roughness	0.023
Roughness Uniformity	0.02
Edge Density	0.086
Mean Gradient Magnitude	0.174
Gradient Variance	0.056
Gradient Smoothness	0.0
Directional Coherence	0.011
Pattern Complexity	0.137
Pattern Repetition	1.0
Detail Frequency Ratio	0.626
Spatial Variation	0.066
Texture Consistency	0.412

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.53
Brightness Variance	0.167
Brightness Uniformity	0.684
Brightness Skewness	-1.624
Brightness Entropy	6.892
Rms Contrast	0.167
Michelson Contrast	1.0
Weber Contrast	0.514
Mean Local Contrast	0.024
Contrast Uniformity	0.119
Dynamic Range	1.0
Effective Dynamic Range	0.659
Shadow Percentage	9.673
Midtone Percentage	74.351
Highlight Percentage	15.975
Shadow Clipping	0.127
Highlight Clipping	0.001
Tonal Balance	0.0
Fine Contrast	0.014
Medium Contrast	0.03
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.174
Contrast Clustering	0.588

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.742
Color Clustering	0.788
Color Transition Smoothness	0.552
Transition Uniformity	0.587
Sharp Transition Ratio	0.1
Transition Directionality	0.011
Mean Saturation	0.261
Saturation Variance	0.027
Low Saturation Ratio	0.777
Medium Saturation Ratio	0.178
High Saturation Ratio	0.045
Saturation Clustering	0.996
Hue Concentration	0.597
Complementary Balance	0.039
Analogous Dominance	0.557
Temperature Bias	-0.095

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/AQC1075.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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