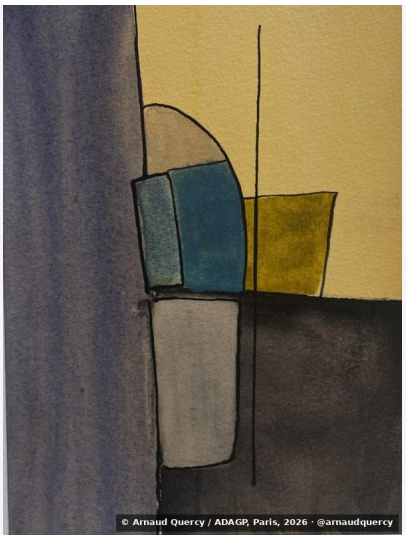
AQC1052 | NAN-COL000615

Nanopublication — Computational Image Analysis - AQC1052

by Arnaud Quercy · Watercolor Study in A Major No. 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1052

Analysis record: Watercolor Study in A Major No. 1 (AQC1052) [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: 1639x2185 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		595458	19.7	gray	dusty mauve
2		49464B	18.9	gray	dusty mauve
3		BEA25D	16.8	yellow-orange	ochre
4		39342E	15.8	yellow-orange	darkslategray
5		AF9153	7.8	yellow-orange	peru
6		7B6F5D	7.3	yellow-orange	dimgray
7		1F1C17	6.2	gray	very dark gray
8		294049	3.6	blue	darkslategrey
9		7A5F0A	3.5	yellow-orange	russet
10		AAACB1	0.3	gray	steel gray

Color Families:

Family	%
yellow-orange	51.2
gray	45.2
blue	3.6

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.166
Mean Local Roughness	0.012
Roughness Uniformity	0.006
Edge Density	0.008
Mean Gradient Magnitude	0.094
Gradient Variance	0.01
Gradient Smoothness	0.0
Directional Coherence	0.01
Pattern Complexity	0.128
Pattern Repetition	1.0
Detail Frequency Ratio	0.598
Spatial Variation	0.128
Texture Consistency	0.488

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.369
Brightness Variance	0.166
Brightness Uniformity	0.551
Brightness Skewness	0.495
Brightness Entropy	6.951
Rms Contrast	0.166
Michelson Contrast	1.0
Weber Contrast	0.704
Mean Local Contrast	0.012
Contrast Uniformity	0.394
Dynamic Range	0.769
Effective Dynamic Range	0.51
Shadow Percentage	53.243
Midtone Percentage	44.607
Highlight Percentage	2.15
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.015
Coarse Contrast	0.023
Multiscale Contrast Ratio	0.336
Edge Contrast	0.094
Contrast Clustering	0.512

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.786
Color Clustering	0.69
Color Transition Smoothness	0.734
Transition Uniformity	0.921
Sharp Transition Ratio	0.1
Transition Directionality	0.011
Mean Saturation	0.28
Saturation Variance	0.046
Low Saturation Ratio	0.657
Medium Saturation Ratio	0.305
High Saturation Ratio	0.038
Saturation Clustering	1.0
Hue Concentration	0.844
Complementary Balance	0.026
Analogous Dominance	0.92
Temperature Bias	0.843

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 A Major No. 1 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1052.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)

2631272de72848639c1689909386f9aba528564219b8fadfea7a1b31f6754c32

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