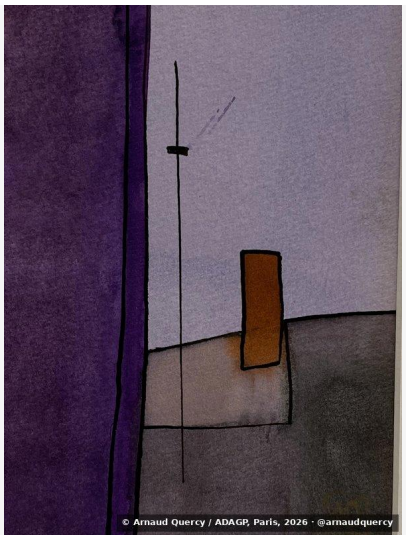
AQC1056 | NAN-COL000619

Nanopublication — Computational Image Analysis - AQC1056

by Arnaud Quercy · Watercolor Study in G-7 No. 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1056

The artwork Watercolor Study in G-7 No. 1 (AQC1056) [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: 1606x2142 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		7B7181	18.8	red-violet	dusty mauve
2		897F8E	17.9	red-violet	dusty mauve
3		3A2142	17.2	red-violet	very dark purple
4		281034	14.1	red-violet	very dark purple
5		4C3E48	9.0	red-violet	dusty mauve
6		3B3334	7.4	gray	darkslategray
7		2A2420	5.1	gray	very dark gray
8		6D5C5C	4.9	red-orange	dimgray
9		060205	3.6	black	black
10		572708	1.8	orange	maroon
11		B6AFA2	0.3	yellow-orange	steel gray [Accent]

Color Families:

Family	%
red-violet	77.1
gray	12.6
red-orange	4.9
black	3.6
orange	1.8
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
B6AFA2	yellow-orange	steel gray	8.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.166
Mean Local Roughness	0.018
Roughness Uniformity	0.01
Edge Density	0.042
Mean Gradient Magnitude	0.136
Gradient Variance	0.018
Gradient Smoothness	0.019
Directional Coherence	0.007
Pattern Complexity	0.129
Pattern Repetition	1.0
Detail Frequency Ratio	0.635
Spatial Variation	0.119
Texture Consistency	0.335

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.297
Brightness Variance	0.166
Brightness Uniformity	0.44
Brightness Skewness	0.145
Brightness Entropy	6.824
Rms Contrast	0.166
Michelson Contrast	1.0
Weber Contrast	0.792
Mean Local Contrast	0.018
Contrast Uniformity	0.439
Dynamic Range	0.773
Effective Dynamic Range	0.455
Shadow Percentage	58.466
Midtone Percentage	41.313
Highlight Percentage	0.221
Shadow Clipping	0.177
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.012
Medium Contrast	0.023
Coarse Contrast	0.032
Multiscale Contrast Ratio	0.367
Edge Contrast	0.136
Contrast Clustering	0.665

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.758
Color Clustering	0.915
Color Transition Smoothness	0.614
Transition Uniformity	0.86
Sharp Transition Ratio	0.1
Transition Directionality	0.006
Mean Saturation	0.323
Saturation Variance	0.065
Low Saturation Ratio	0.601
Medium Saturation Ratio	0.297
High Saturation Ratio	0.102
Saturation Clustering	0.996
Hue Concentration	0.8
Complementary Balance	0.011
Analogous Dominance	0.815
Temperature Bias	0.205

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 G-7 No. 1 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1056.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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