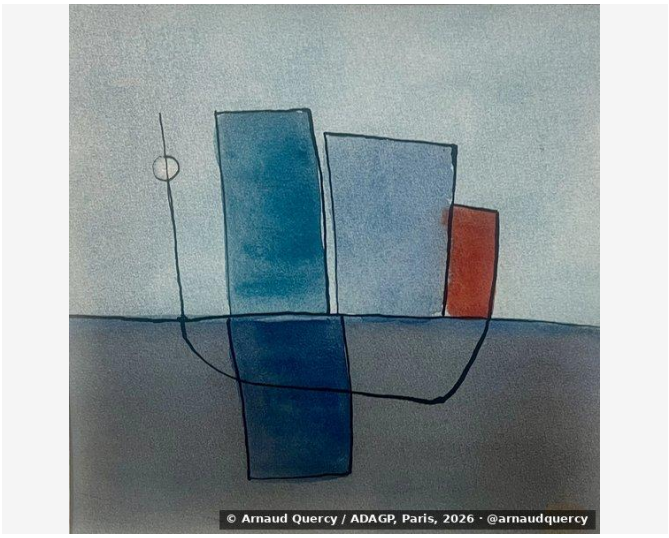
AQC1070 | NAN-COL000633

Nanopublication — Computational Image Analysis - AQC1070

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



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1070

K-means clustering (10 colors) performed on artwork Watercolor Study in Eb Major No. 1 (AQC1070) [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: 2186x2186 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		9BA8A7	21.2	green	steel gray
2		ADB9B8	20.8	gray	silver
3		535A5C	16.4	gray	dimgray
4		444949	10.0	gray	darkslategray
5		666C6D	7.8	gray	dimgrey
6		728C99	7.5	blue	lightslategray
7		08243C	7.3	blue-violet	very dark indigo
8		457486	3.8	blue	blue gray
9		0F5872	3.6	blue	teal
10		833D32	1.6	red-orange	russet
11		1D1217	0.3	red	black [Accent]
12		25191F	0.3	red-violet	very dark gray [Accent]

Color Families:

Family	%
gray	55.0
green	21.2
blue	14.9
blue-violet	7.3
red-orange	1.6
red	0.3
red-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
1D1217	red	black	8.2
25191F	red-violet	very dark gray	7.3

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.192
Mean Local Roughness	0.016
Roughness Uniformity	0.008
Edge Density	0.045
Mean Gradient Magnitude	0.146
Gradient Variance	0.016
Gradient Smoothness	0.134
Directional Coherence	0.003
Pattern Complexity	0.119
Pattern Repetition	1.0
Detail Frequency Ratio	0.608
Spatial Variation	0.155
Texture Consistency	0.549

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.482
Brightness Variance	0.192
Brightness Uniformity	0.602
Brightness Skewness	-0.237
Brightness Entropy	7.18
Rms Contrast	0.192
Michelson Contrast	1.0
Weber Contrast	0.648
Mean Local Contrast	0.019
Contrast Uniformity	0.472
Dynamic Range	0.89
Effective Dynamic Range	0.588
Shadow Percentage	25.742
Midtone Percentage	47.91
Highlight Percentage	26.347
Shadow Clipping	0.002
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.009
Medium Contrast	0.022
Coarse Contrast	0.036
Multiscale Contrast Ratio	0.25
Edge Contrast	0.146
Contrast Clustering	0.451

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.774
Color Clustering	0.75
Color Transition Smoothness	0.616
Transition Uniformity	0.889
Sharp Transition Ratio	0.1
Transition Directionality	0.003
Mean Saturation	0.208
Saturation Variance	0.071
Low Saturation Ratio	0.803
Medium Saturation Ratio	0.1
High Saturation Ratio	0.097
Saturation Clustering	1.0
Hue Concentration	0.828
Complementary Balance	0.037
Analogous Dominance	0.914
Temperature Bias	-0.824

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 Eb Major No. 1 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1070.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)

bee9e2f76dbe38cec725f7a21f9ea08ef07bb8bbf4a27d972a2bedc9260fdb47

Artist Arnaud Quercy
Date 2026
Certificate 20260713-0122
Asset code AQC1070
Identifier NAN-COL000633
Version 1
Published 2026-07-13

ISSN: applied for — U.S. ISSN Center, Library of Congress

Published by Art Quam Anima Publishing New York,
an assumed name of AQA Publishing LLC

c/o Northwest Registered Agent, 418 Broadway Ste N
Albany, NY 12207, USA
+1 917-764-5470

NY DOS ID 7624376 · Assumed Name ID 7658709

publishing.artquamanima.com

Last updated: 2026-09-15

Persistent URI: https://ideamorphism.org/en/nanopubs/2026/07/AQC1070-computational-image-analysis-aqc1070.pdf