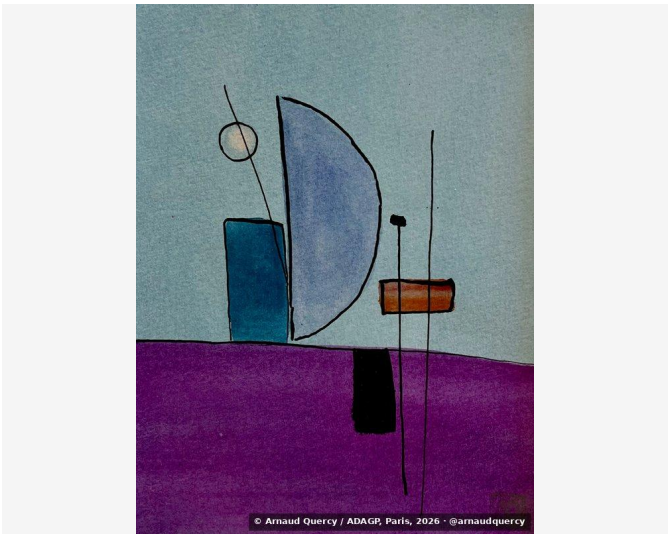
AQC1059 | NAN-COL000622

Nanopublication — Computational Image Analysis - AQC1059

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



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1059

The artwork Watercolor Study in Db Major No. 1 (AQC1059) [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: 1608x2144 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		7C9495	23.8	blue-green	lightslategray
2		899FA0	16.3	blue-green	lightslategrey
3		4F044F	15.1	red-violet	very dark purple
4		6E878C	14.2	blue-green	blue gray
5		5C125E	11.4	red-violet	indigo
6		68246B	6.4	red-violet	purple
7		566C84	4.4	blue-violet	grayish purple
8		030204	4.2	black	black
9		053C56	3.3	blue	grayish purple
10		763719	0.8	orange	russet
11		600502	0.3	red-orange	very dark red [Accent]
12		441D2A	0.3	red	very dark red [Accent]
13		B3A997	0.3	yellow-orange	steel gray [Accent]

Color Families:

Family	%
blue-green	54.3
red-violet	32.9
blue-violet	4.4
black	4.2
blue	3.3
orange	0.8
red-orange	0.3
red	0.3
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
600502	red-orange	very dark red	47.2
441D2A	red	very dark red	21.0
B3A997	yellow-orange	steel gray	11.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.197
Mean Local Roughness	0.022
Roughness Uniformity	0.014
Edge Density	0.093
Mean Gradient Magnitude	0.162
Gradient Variance	0.032
Gradient Smoothness	0.0
Directional Coherence	0.018
Pattern Complexity	0.133
Pattern Repetition	1.0
Detail Frequency Ratio	0.622
Spatial Variation	0.154
Texture Consistency	0.371

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.389
Brightness Variance	0.197
Brightness Uniformity	0.493
Brightness Skewness	-0.399
Brightness Entropy	6.703
Rms Contrast	0.197
Michelson Contrast	1.0
Weber Contrast	0.775
Mean Local Contrast	0.022
Contrast Uniformity	0.337
Dynamic Range	0.886
Effective Dynamic Range	0.494
Shadow Percentage	41.111
Midtone Percentage	58.73
Highlight Percentage	0.159
Shadow Clipping	2.056
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.014
Medium Contrast	0.027
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.162
Contrast Clustering	0.629

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.797
Color Clustering	0.713
Color Transition Smoothness	0.581
Transition Uniformity	0.761
Sharp Transition Ratio	0.1
Transition Directionality	0.019
Mean Saturation	0.444
Saturation Variance	0.118
Low Saturation Ratio	0.562
Medium Saturation Ratio	0.108
High Saturation Ratio	0.329
Saturation Clustering	0.996
Hue Concentration	0.609
Complementary Balance	0.025
Analogous Dominance	0.575
Temperature Bias	-0.135

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 Db Major No. 1 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1059.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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