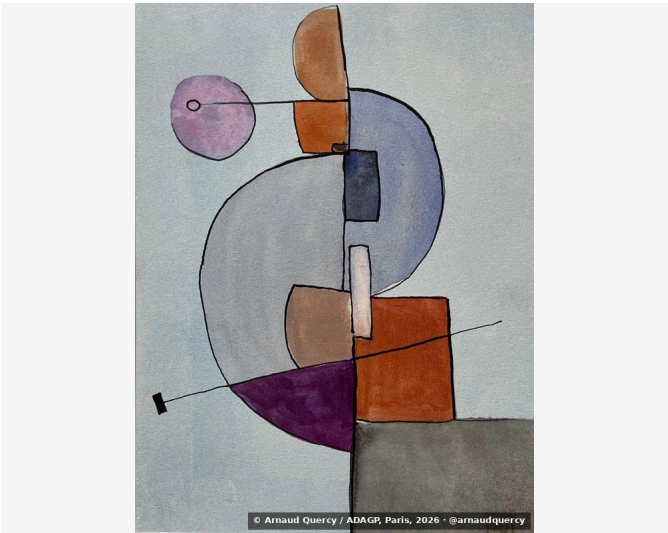


Nanopublication – Computational Image Analysis – AQC1087

by Arnaud Quercy · Watercolor Study in Ab Major No. 3 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1087

Computational image analysis of artwork Watercolor Study in Ab Major No. 3 (AQC1087) ^[1] by Arnaud Quercy ^[2], performed according to IDS-CMP-2025 ^[3], using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 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: 1592x2122 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		A8AFAF	28.2	gray	steel gray
2		B5BBBB	23.0	gray	silver
3		999CA1	14.9	gray	steel gray
4		6C6760	8.9	yellow-orange	dimgray
5		828393	6.9	violet	dusty mauve
6		903B16	5.7	orange	russet
7		95684E	4.1	orange	burnt sienna
8		3F1638	3.7	red-violet	very dark purple
9		0F090B	2.4	black	black
10		4B454C	2.3	red-violet	dusty mauve
11		3D0A08	0.3	red-orange	very dark red [Accent]
12		222D4D	0.3	blue-violet	very dark indigo [Accent]

Color Families:

Family	%
gray	66.1
orange	9.8
yellow-orange	8.9
violet	6.9
red-violet	6.0
black	2.4
red-orange	0.3
blue-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
3D0A08	red-orange	very dark red	27.3
222D4D	blue-violet	very dark indigo	21.6

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.179
Mean Local Roughness	0.018
Roughness Uniformity	0.017
Edge Density	0.024
Mean Gradient Magnitude	0.142
Gradient Variance	0.044
Gradient Smoothness	0.0
Directional Coherence	0.005
Pattern Complexity	0.133
Pattern Repetition	1.0
Detail Frequency Ratio	0.602
Spatial Variation	0.108
Texture Consistency	0.628

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.573
Brightness Variance	0.179
Brightness Uniformity	0.688
Brightness Skewness	-1.27
Brightness Entropy	6.941
Rms Contrast	0.179
Michelson Contrast	1.0
Weber Contrast	0.581
Mean Local Contrast	0.019
Contrast Uniformity	0.025
Dynamic Range	1.0
Effective Dynamic Range	0.573
Shadow Percentage	11.764
Midtone Percentage	43.083
Highlight Percentage	45.153
Shadow Clipping	0.04
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.024
Coarse Contrast	0.037
Multiscale Contrast Ratio	0.307
Edge Contrast	0.142
Contrast Clustering	0.372

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.731
Color Clustering	0.729
Color Transition Smoothness	0.637
Transition Uniformity	0.676
Sharp Transition Ratio	0.1
Transition Directionality	0.005
Mean Saturation	0.167
Saturation Variance	0.059
Low Saturation Ratio	0.845
Medium Saturation Ratio	0.069
High Saturation Ratio	0.086
Saturation Clustering	0.998
Hue Concentration	0.643
Complementary Balance	0.031
Analogous Dominance	0.66
Temperature Bias	0.712

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 Ab Major No. 3 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1087.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)

3af0675f78c1da0a4980fdf28a1b3ce0c430aa9a640921657502d883a8b721d9

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