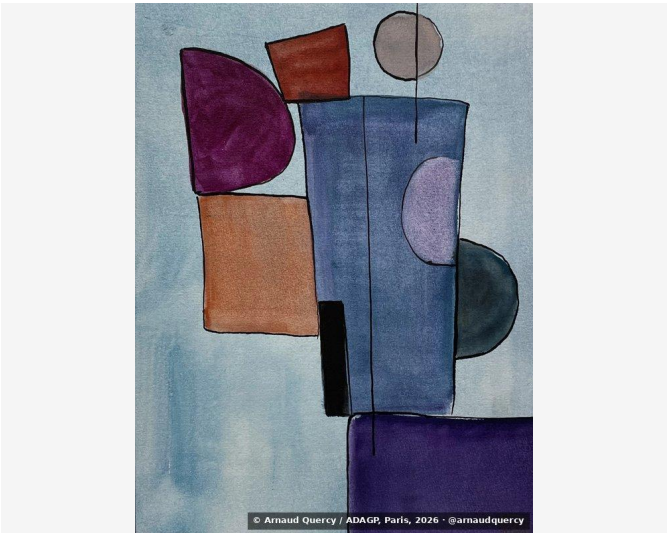


Nanopublication – Computational Image Analysis –
AQC1078

by Arnaud Quercy · Watercolor Study in Ab Major No. 2 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1078

Computational image analysis of artwork Watercolor Study in Ab Major No. 2 (AQC1078) ^[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: 1544x2059 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		8DA1AA	22.2	blue	steel gray
2		A2B3B9	20.5	blue	steel gray
3		29244A	11.7	violet	very dark purple
4		4F6282	9.0	blue-violet	grayish purple
5		394A6C	8.7	blue-violet	grayish purple
6		748494	8.4	blue-violet	grayish purple
7		9E6A50	6.7	orange	burnt sienna
8		4D1437	5.8	red	very dark red
9		0C0A12	4.7	black	black
10		722E20	2.4	red-orange	russet
11		6F3160	0.3	red-violet	dusty mauve [Accent]

Color Families:

Family	%
blue	42.7
blue-violet	26.1
violet	11.7
orange	6.7
red	5.8
black	4.7
red-orange	2.4
red-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
6F3160	red-violet	dusty mauve	37.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.211
Mean Local Roughness	0.024
Roughness Uniformity	0.017
Edge Density	0.108
Mean Gradient Magnitude	0.18
Gradient Variance	0.045
Gradient Smoothness	0.0
Directional Coherence	0.002
Pattern Complexity	0.131
Pattern Repetition	1.0
Detail Frequency Ratio	0.621
Spatial Variation	0.129
Texture Consistency	0.653

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.448
Brightness Variance	0.211
Brightness Uniformity	0.529
Brightness Skewness	-0.408
Brightness Entropy	7.388
Rms Contrast	0.211
Michelson Contrast	1.0
Weber Contrast	0.787
Mean Local Contrast	0.025
Contrast Uniformity	0.236
Dynamic Range	0.933
Effective Dynamic Range	0.608
Shadow Percentage	32.599
Midtone Percentage	51.627
Highlight Percentage	15.774
Shadow Clipping	0.031
Highlight Clipping	0.0
Tonal Balance	0.109
Fine Contrast	0.014
Medium Contrast	0.03
Coarse Contrast	0.043
Multiscale Contrast Ratio	0.327
Edge Contrast	0.18
Contrast Clustering	0.347

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.729
Color Clustering	0.817
Color Transition Smoothness	0.525
Transition Uniformity	0.666
Sharp Transition Ratio	0.1
Transition Directionality	0.002
Mean Saturation	0.339
Saturation Variance	0.051
Low Saturation Ratio	0.518
Medium Saturation Ratio	0.399
High Saturation Ratio	0.082
Saturation Clustering	0.998
Hue Concentration	0.529
Complementary Balance	0.143
Analogous Dominance	0.709
Temperature Bias	-0.231

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. 2 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1078.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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