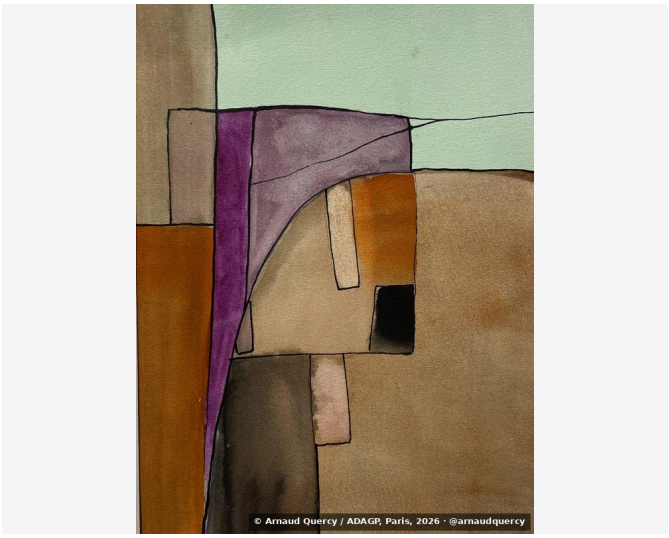
AQC1082 | NAN-COL000645

Nanopublication — Computational Image Analysis - AQC1082

by Arnaud Quercy · Watercolor Study in D Minor No. 5 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1082

Computational image analysis of artwork Watercolor Study in D Minor No. 5 (AQC1082) [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: 2090x2787 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		AFC2A6	19.5	yellow-green	steel gray
2		876944	16.5	orange	burnt sienna
3		977A56	15.1	yellow-orange	gray
4		7A3F07	12.4	orange	russet
5		AB9071	8.6	orange	rosybrown
6		6E5438	7.9	orange	dark brown
7		413223	5.8	orange	darkslategray
8		80666C	5.4	red	dimgray
9		17100C	5.0	black	black
10		612651	3.8	red-violet	dusty mauve
11		5C1905	0.3	red-orange	maroon [Accent]

Color Families:

Family	%
orange	51.1
yellow-green	19.5
yellow-orange	15.1
red	5.4
black	5.0
red-violet	3.8
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
5C1905	red-orange	maroon	41.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.186
Mean Local Roughness	0.019
Roughness Uniformity	0.012
Edge Density	0.064
Mean Gradient Magnitude	0.15
Gradient Variance	0.026
Gradient Smoothness	0.0
Directional Coherence	0.006
Pattern Complexity	0.134
Pattern Repetition	1.0
Detail Frequency Ratio	0.619
Spatial Variation	0.135
Texture Consistency	0.611

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.452
Brightness Variance	0.186
Brightness Uniformity	0.589
Brightness Skewness	-0.035
Brightness Entropy	7.378
Rms Contrast	0.186
Michelson Contrast	1.0
Weber Contrast	0.694
Mean Local Contrast	0.02
Contrast Uniformity	0.327
Dynamic Range	0.941
Effective Dynamic Range	0.616
Shadow Percentage	27.316
Midtone Percentage	53.749
Highlight Percentage	18.934
Shadow Clipping	0.005
Highlight Clipping	0.0
Tonal Balance	0.114
Fine Contrast	0.011
Medium Contrast	0.024
Coarse Contrast	0.036
Multiscale Contrast Ratio	0.31
Edge Contrast	0.15
Contrast Clustering	0.389

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.738
Color Clustering	0.738
Color Transition Smoothness	0.605
Transition Uniformity	0.809
Sharp Transition Ratio	0.1
Transition Directionality	0.007
Mean Saturation	0.443
Saturation Variance	0.062
Low Saturation Ratio	0.29
Medium Saturation Ratio	0.561
High Saturation Ratio	0.149
Saturation Clustering	0.999
Hue Concentration	0.942
Complementary Balance	0.001
Analogous Dominance	0.98
Temperature Bias	0.989

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 D Minor No. 5 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1082.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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