AQC1090 | NAN-COL000653

Nanopublication — Computational Image Analysis - AQC1090

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

CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1090

The artwork Watercolor Study in Db Minor No. 1 (AQC1090) [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: 1668x2239 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		C2B270	28.2	yellow	ochre
2		BBA862	16.5	yellow-orange	ochre
3		CCBC7D	16.4	yellow	tan
4		8C8B74	13.3	yellow	gray
5		5E6E67	7.3	green	dimgray
6		405A5A	6.6	blue-green	darkslategray
7		1A342F	5.5	green	darkslategrey
8		0B0A06	3.7	black	black
9		493C0E	1.3	yellow-orange	dark brown
10		C7C3BC	1.1	white	silver

Color Families:

Family	%
yellow	57.9
yellow-orange	17.8
green	12.9
blue-green	6.6
black	3.7
white	1.1

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.193
Mean Local Roughness	0.018
Roughness Uniformity	0.018
Edge Density	0.051
Mean Gradient Magnitude	0.141
Gradient Variance	0.046
Gradient Smoothness	0.0
Directional Coherence	0.003
Pattern Complexity	0.138
Pattern Repetition	1.0
Detail Frequency Ratio	0.613
Spatial Variation	0.127
Texture Consistency	0.565

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.568
Brightness Variance	0.193
Brightness Uniformity	0.661
Brightness Skewness	-1.322
Brightness Entropy	6.83
Rms Contrast	0.193
Michelson Contrast	1.0
Weber Contrast	0.667
Mean Local Contrast	0.02
Contrast Uniformity	0.0
Dynamic Range	0.875
Effective Dynamic Range	0.6
Shadow Percentage	13.862
Midtone Percentage	37.305
Highlight Percentage	48.834
Shadow Clipping	0.03
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.024
Coarse Contrast	0.036
Multiscale Contrast Ratio	0.295
Edge Contrast	0.141
Contrast Clustering	0.435

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.758
Color Clustering	0.812
Color Transition Smoothness	0.631
Transition Uniformity	0.658
Sharp Transition Ratio	0.1
Transition Directionality	0.003
Mean Saturation	0.382
Saturation Variance	0.022
Low Saturation Ratio	0.272
Medium Saturation Ratio	0.7
High Saturation Ratio	0.029
Saturation Clustering	0.998
Hue Concentration	0.71
Complementary Balance	0.008
Analogous Dominance	0.809
Temperature Bias	0.609

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 Minor No. 1 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1090.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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