

Nanopublication – Computational Image Analysis – AQC1086

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



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1086

The artwork Watercolor Study in Eb Major No. 2 (AQC1086) ^[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: 1596x2143 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		AA89AD	22.5	red-violet	steel gray
2		9C7DA2	14.1	red-violet	dusty mauve
3		807894	12.5	violet	dusty mauve
4		53474C	11.3	red	dusty mauve
5		B797B8	10.3	red-violet	steel gray
6		726984	9.2	violet	dusty mauve
7		655360	7.7	red-violet	dusty mauve
8		42383A	7.2	red	darkslategray
9		110710	2.8	red-violet	black
10		4E1044	2.5	red-violet	very dark purple
11		56612D	0.3	yellow-green	dark brown [Accent]

Color Families:

Family	%
red-violet	59.9
violet	21.6
red	18.5
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
56612D	yellow-green	dark brown	30.9

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.156
Mean Local Roughness	0.022
Roughness Uniformity	0.015
Edge Density	0.079
Mean Gradient Magnitude	0.169
Gradient Variance	0.038
Gradient Smoothness	0.0
Directional Coherence	0.003
Pattern Complexity	0.135
Pattern Repetition	1.0
Detail Frequency Ratio	0.625
Spatial Variation	0.09
Texture Consistency	0.702

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.462
Brightness Variance	0.156
Brightness Uniformity	0.663
Brightness Skewness	-0.787
Brightness Entropy	7.013
Rms Contrast	0.156
Michelson Contrast	1.0
Weber Contrast	0.604
Mean Local Contrast	0.023
Contrast Uniformity	0.261
Dynamic Range	1.0
Effective Dynamic Range	0.455
Shadow Percentage	24.376
Midtone Percentage	73.712
Highlight Percentage	1.912
Shadow Clipping	0.014
Highlight Clipping	0.003
Tonal Balance	0.0
Fine Contrast	0.013
Medium Contrast	0.028
Coarse Contrast	0.041
Multiscale Contrast Ratio	0.323
Edge Contrast	0.169
Contrast Clustering	0.298

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.704
Color Clustering	0.89
Color Transition Smoothness	0.554
Transition Uniformity	0.719
Sharp Transition Ratio	0.1
Transition Directionality	0.004
Mean Saturation	0.225
Saturation Variance	0.021
Low Saturation Ratio	0.909
Medium Saturation Ratio	0.056
High Saturation Ratio	0.035
Saturation Clustering	0.998
Hue Concentration	0.915
Complementary Balance	0.014
Analogous Dominance	0.947
Temperature Bias	0.265

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 Eb Major No. 2 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1086.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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