

Nanopublication – Computational Image Analysis – AQC1067

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



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1067

Analysis record: Watercolor Study in A Minor No. 1 (AQC1067) ^[1] by Arnaud Quercy ^[2], per IDS-CMP-2025 ^[3]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 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: 1771x1771 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		A48D60	23.7	yellow-orange	gray
2		AB9569	16.1	yellow-orange	ochre
3		78603B	15.8	yellow-orange	dark brown
4		9D8556	12.8	yellow-orange	grey
5		6F552F	11.4	yellow-orange	dark brown
6		876D47	6.8	yellow-orange	burnt sienna
7		7E2603	6.7	orange	russet
8		8A552C	2.9	orange	burnt sienna
9		0B0502	2.6	black	black
10		513917	1.2	orange	dark brown

Color Families:

Family	%
yellow-orange	86.6
orange	10.8
black	2.6

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.133
Mean Local Roughness	0.017
Roughness Uniformity	0.012
Edge Density	0.01
Mean Gradient Magnitude	0.116
Gradient Variance	0.023
Gradient Smoothness	0.0
Directional Coherence	0.007
Pattern Complexity	0.139
Pattern Repetition	1.0
Detail Frequency Ratio	0.62
Spatial Variation	0.089
Texture Consistency	0.44

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.459
Brightness Variance	0.133
Brightness Uniformity	0.711
Brightness Skewness	-1.094
Brightness Entropy	6.433
Rms Contrast	0.133
Michelson Contrast	1.0
Weber Contrast	0.513
Mean Local Contrast	0.016
Contrast Uniformity	0.201
Dynamic Range	0.788
Effective Dynamic Range	0.38
Shadow Percentage	12.609
Midtone Percentage	87.366
Highlight Percentage	0.025
Shadow Clipping	0.014
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.02
Coarse Contrast	0.028
Multiscale Contrast Ratio	0.4
Edge Contrast	0.116
Contrast Clustering	0.56

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.733
Color Clustering	0.507
Color Transition Smoothness	0.696
Transition Uniformity	0.826
Sharp Transition Ratio	0.1
Transition Directionality	0.006
Mean Saturation	0.508
Saturation Variance	0.027
Low Saturation Ratio	0.007
Medium Saturation Ratio	0.892
High Saturation Ratio	0.1
Saturation Clustering	0.999
Hue Concentration	0.99
Complementary Balance	0.0
Analogous Dominance	0.996
Temperature Bias	0.996

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 A Minor No. 1 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1067.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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