AQC1089 | NAN-COL000652

Nanopublication — Computational Image Analysis - AQC1089

by Arnaud Quercy · Watercolor Study in A Minor No. 3 · 2026

CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1089

Analysis record: Watercolor Study in A Minor No. 3 (AQC1089) [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: 1891x2521 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		9FA8A0	22.8	yellow-green	steel gray
2		919B94	19.3	yellow-green	lightslategray
3		B4B6AD	14.3	gray	steel gray
4		896952	13.2	orange	dimgray
5		7B5C46	9.1	orange	dimgrey
6		99775F	5.8	orange	gray
7		9A6425	5.2	orange	burnt sienna
8		8D4F11	4.2	orange	russet
9		080604	3.9	black	black
10		4F4136	2.0	orange	darkslategray
11		988F3A	0.3	yellow	olivedrab [Accent]
12		28251F	0.3	yellow-orange	very dark gray [Accent]

Color Families:

Family	%
yellow-green	42.2
orange	39.6
gray	14.3
black	3.9
yellow	0.3
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
988F3A	yellow	olivedrab	45.7
28251F	yellow-orange	very dark gray	5.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.159
Mean Local Roughness	0.02
Roughness Uniformity	0.012
Edge Density	0.04
Mean Gradient Magnitude	0.148
Gradient Variance	0.027
Gradient Smoothness	0.0
Directional Coherence	0.008
Pattern Complexity	0.14
Pattern Repetition	1.0
Detail Frequency Ratio	0.625
Spatial Variation	0.098
Texture Consistency	0.394

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.53
Brightness Variance	0.159
Brightness Uniformity	0.699
Brightness Skewness	-1.219
Brightness Entropy	6.814
Rms Contrast	0.159
Michelson Contrast	1.0
Weber Contrast	0.475
Mean Local Contrast	0.02
Contrast Uniformity	0.304
Dynamic Range	0.886
Effective Dynamic Range	0.443
Shadow Percentage	6.806
Midtone Percentage	74.529
Highlight Percentage	18.665
Shadow Clipping	0.146
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.012
Medium Contrast	0.025
Coarse Contrast	0.035
Multiscale Contrast Ratio	0.339
Edge Contrast	0.148
Contrast Clustering	0.606

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.755
Color Clustering	0.738
Color Transition Smoothness	0.622
Transition Uniformity	0.8
Sharp Transition Ratio	0.1
Transition Directionality	0.009
Mean Saturation	0.251
Saturation Variance	0.068
Low Saturation Ratio	0.599
Medium Saturation Ratio	0.302
High Saturation Ratio	0.099
Saturation Clustering	0.998
Hue Concentration	0.981
Complementary Balance	0.002
Analogous Dominance	0.979
Temperature Bias	0.971

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. 3 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1089.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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