AQC1084 | NAN-COL000647

Nanopublication — Computational Image Analysis - AQC1084

by Arnaud Quercy · Watercolor Study in D Major No. 3 · 2026

CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1084

Analysis record: Watercolor Study in D Major No. 3 (AQC1084) [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: 1714x2285 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		B8AD98	18.8	yellow-orange	steel gray
2		B39C87	15.4	orange	rosybrown
3		C1B8A4	14.3	yellow-orange	steel gray
4		557B70	12.7	green	dimgray
5		416A60	11.8	green	darkslategray
6		A9907A	10.3	orange	gray
7		A84E05	10.3	orange	russet
8		987C5B	4.0	orange	grey
9		120C09	1.4	black	black
10		5A4F34	1.1	yellow-orange	dark brown
11		4D1C11	0.3	red-orange	very dark red [Accent]
12		2E3A30	0.3	yellow-green	darkslategray [Accent]

Color Families:

Family	%
orange	40.0
yellow-orange	34.2
green	24.5
black	1.4
red-orange	0.3
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
4D1C11	red-orange	very dark red	29.1
2E3A30	yellow-green	darkslategray	9.4

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.15
Mean Local Roughness	0.019
Roughness Uniformity	0.013
Edge Density	0.036
Mean Gradient Magnitude	0.142
Gradient Variance	0.028
Gradient Smoothness	0.0
Directional Coherence	0.003
Pattern Complexity	0.142
Pattern Repetition	1.0
Detail Frequency Ratio	0.631
Spatial Variation	0.115
Texture Consistency	0.419

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.552
Brightness Variance	0.15
Brightness Uniformity	0.729
Brightness Skewness	-0.676
Brightness Entropy	6.784
Rms Contrast	0.15
Michelson Contrast	1.0
Weber Contrast	0.497
Mean Local Contrast	0.02
Contrast Uniformity	0.248
Dynamic Range	0.906
Effective Dynamic Range	0.396
Shadow Percentage	4.419
Midtone Percentage	64.305
Highlight Percentage	31.276
Shadow Clipping	0.01
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.024
Coarse Contrast	0.033
Multiscale Contrast Ratio	0.34
Edge Contrast	0.142
Contrast Clustering	0.581

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.775
Color Clustering	0.58
Color Transition Smoothness	0.638
Transition Uniformity	0.797
Sharp Transition Ratio	0.1
Transition Directionality	0.003
Mean Saturation	0.334
Saturation Variance	0.058
Low Saturation Ratio	0.64
Medium Saturation Ratio	0.25
High Saturation Ratio	0.11
Saturation Clustering	0.999
Hue Concentration	0.444
Complementary Balance	0.005
Analogous Dominance	0.633
Temperature Bias	0.267

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 Major No. 3 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1084.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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