

Nanopublication – Computational Image Analysis – AQC1091

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



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1091

K-means clustering (10 colors) performed on artwork Watercolor Study in C Major No. 2 (AQC1091) [1] by Arnaud Quercy [2] on 2026-07-13, according to IDS-CMP-2025 [3]. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

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: 1826x2435 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		BF885F	20.6	orange	peru
2		A16E52	19.0	orange	burnt sienna
3		B87E56	14.1	orange	indianred
4		AA785D	13.7	orange	gray
5		966347	10.1	orange	burnt sienna
6		C6946B	9.9	orange	ochre
7		82540B	4.6	orange	russet
8		362B22	4.4	orange	very dark gray
9		170E09	2.3	black	black
10		69503F	1.4	orange	dark brown
11		A17222	0.3	yellow-orange	burnt sienna [Accent]

Color Families:

Family	%
orange	97.7
black	2.3
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
A17222	yellow-orange	burnt sienna	50.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.12
Mean Local Roughness	0.015
Roughness Uniformity	0.011
Edge Density	0.025
Mean Gradient Magnitude	0.124
Gradient Variance	0.021
Gradient Smoothness	0.0
Directional Coherence	0.007
Pattern Complexity	0.132
Pattern Repetition	1.0
Detail Frequency Ratio	0.618
Spatial Variation	0.068
Texture Consistency	0.279

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.496
Brightness Variance	0.12
Brightness Uniformity	0.759
Brightness Skewness	-1.86
Brightness Entropy	6.477
Rms Contrast	0.12
Michelson Contrast	1.0
Weber Contrast	0.409
Mean Local Contrast	0.017
Contrast Uniformity	0.217
Dynamic Range	0.765
Effective Dynamic Range	0.431
Shadow Percentage	8.531
Midtone Percentage	91.148
Highlight Percentage	0.32
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.009
Medium Contrast	0.02
Coarse Contrast	0.03
Multiscale Contrast Ratio	0.29
Edge Contrast	0.124
Contrast Clustering	0.721

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.74
Color Clustering	0.525
Color Transition Smoothness	0.677
Transition Uniformity	0.841
Sharp Transition Ratio	0.1
Transition Directionality	0.009
Mean Saturation	0.509
Saturation Variance	0.013
Low Saturation Ratio	0.014
Medium Saturation Ratio	0.929
High Saturation Ratio	0.058
Saturation Clustering	0.999
Hue Concentration	0.996
Complementary Balance	0.0
Analogous Dominance	1.0
Temperature Bias	1.0

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 C Major No. 2 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1091.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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