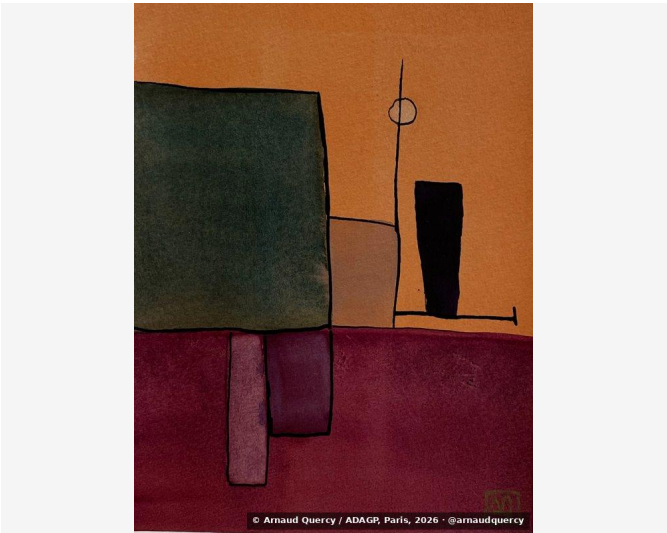


Nanopublication – Computational Image Analysis –
AQC1063

by Arnaud Quercy · Watercolor Study in B Major No. 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1063

K-means clustering (10 colors) performed on artwork Watercolor Study in B Major No. 1 (AQC1063) [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: 1444x1925 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		A85C27	17.1	orange	burnt sienna
2		B06632	15.6	orange	burnt sienna
3		5A1221	15.5	red-orange	very dark red
4		20251B	12.3	yellow-green	very dark gray
5		490717	12.2	red-orange	very dark red
6		313326	9.2	yellow-green	darkslategray
7		67202E	9.1	red	russet
8		080203	5.0	black	black
9		845039	3.9	orange	burnt sienna
10		D6CBC8	0.0	white	lightgray

Color Families:

Family	%
orange	36.6
red-orange	27.8
yellow-green	21.5
red	9.1
black	5.0
white	0.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.148
Mean Local Roughness	0.016
Roughness Uniformity	0.01
Edge Density	0.015
Mean Gradient Magnitude	0.113
Gradient Variance	0.017
Gradient Smoothness	0.0
Directional Coherence	0.011
Pattern Complexity	0.132
Pattern Repetition	1.0
Detail Frequency Ratio	0.628
Spatial Variation	0.106
Texture Consistency	0.419

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.256
Brightness Variance	0.148
Brightness Uniformity	0.423
Brightness Skewness	0.337
Brightness Entropy	6.398
Rms Contrast	0.148
Michelson Contrast	1.0
Weber Contrast	0.769
Mean Local Contrast	0.016
Contrast Uniformity	0.304
Dynamic Range	0.922
Effective Dynamic Range	0.404
Shadow Percentage	63.884
Midtone Percentage	36.073
Highlight Percentage	0.042
Shadow Clipping	0.08
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.019
Coarse Contrast	0.027
Multiscale Contrast Ratio	0.383
Edge Contrast	0.113
Contrast Clustering	0.581

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.805
Color Clustering	0.686
Color Transition Smoothness	0.688
Transition Uniformity	0.864
Sharp Transition Ratio	0.1
Transition Directionality	0.013
Mean Saturation	0.659
Saturation Variance	0.05
Low Saturation Ratio	0.143
Medium Saturation Ratio	0.213
High Saturation Ratio	0.644
Saturation Clustering	0.997
Hue Concentration	0.799
Complementary Balance	0.01
Analogous Dominance	0.821
Temperature Bias	0.798

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 B Major No. 1 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1063.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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