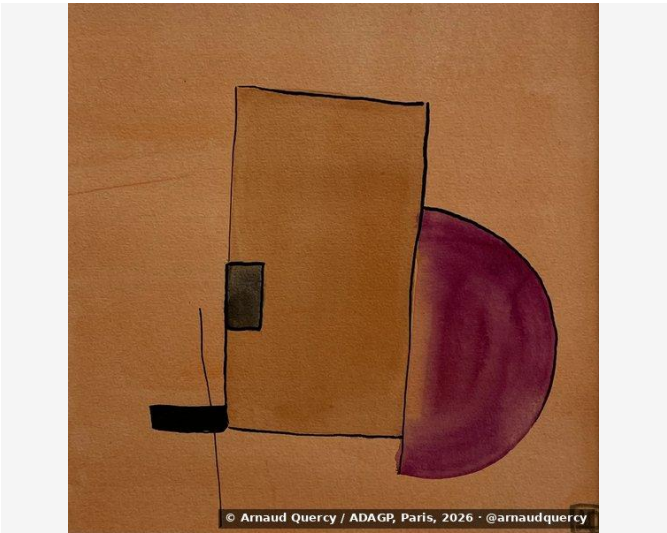


Nanopublication – Computational Image Analysis – AQC1065

by Arnaud Quercy · Watercolor Study in D Minor No. 2 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1065

K-means clustering (10 colors) performed on artwork Watercolor Study in D Minor No. 2 (AQC1065) [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: 1643x1643 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		A16B3F	22.3	orange	burnt sienna
2		9A6235	21.0	orange	burnt sienna
3		91592A	18.3	orange	burnt sienna
4		A97449	13.8	orange	peru
5		884D1B	10.8	orange	russet
6		661D2D	4.8	red	maroon
7		580C22	4.1	red	very dark red
8		0A0201	1.9	black	black
9		723934	1.9	red-orange	russet
10		382414	1.1	orange	very dark orange

Color Families:

Family	%
orange	87.3
red	8.9
black	1.9
red-orange	1.9

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.105
Mean Local Roughness	0.017
Roughness Uniformity	0.01
Edge Density	0.009
Mean Gradient Magnitude	0.116
Gradient Variance	0.017
Gradient Smoothness	0.0
Directional Coherence	0.003
Pattern Complexity	0.138
Pattern Repetition	1.0
Detail Frequency Ratio	0.631
Spatial Variation	0.058
Texture Consistency	0.573

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.398
Brightness Variance	0.105
Brightness Uniformity	0.735
Brightness Skewness	-1.714
Brightness Entropy	6.233
Rms Contrast	0.105
Michelson Contrast	1.0
Weber Contrast	0.56
Mean Local Contrast	0.016
Contrast Uniformity	0.317
Dynamic Range	0.616
Effective Dynamic Range	0.341
Shadow Percentage	15.164
Midtone Percentage	84.836
Highlight Percentage	0.0
Shadow Clipping	0.014
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.02
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.116
Contrast Clustering	0.427

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.738
Color Clustering	0.389
Color Transition Smoothness	0.693
Transition Uniformity	0.869
Sharp Transition Ratio	0.1
Transition Directionality	0.002
Mean Saturation	0.672
Saturation Variance	0.01
Low Saturation Ratio	0.002
Medium Saturation Ratio	0.68
High Saturation Ratio	0.318
Saturation Clustering	0.999
Hue Concentration	0.973
Complementary Balance	0.0
Analogous Dominance	0.993
Temperature Bias	0.993

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 Minor No. 2 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1065.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)

080d49edbb7a08e35543716cc5e976da635573def76ce246561f673f411d03aa

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Artist Arnaud Quercy

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