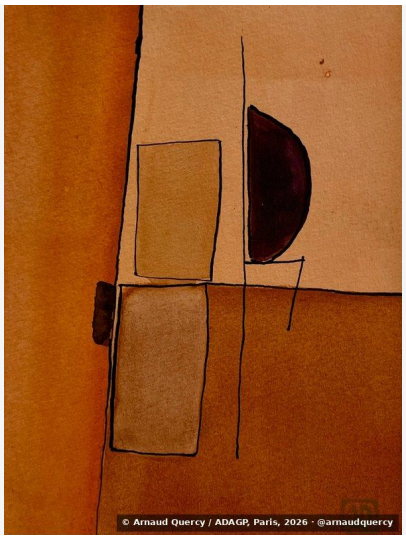
AQC1060 | NAN-COL000623

Nanopublication — Computational Image Analysis - AQC1060

by Arnaud Quercy · Watercolor Study in D5 (power chord) No. 2 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1060

K-means clustering (10 colors) performed on artwork Watercolor Study in D5 (power chord) No. 2 (AQC1060) [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: 1571x2095 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		883503	15.5	orange	russet
2		BE7E49	14.2	orange	peru
3		A55005	13.8	orange	russet
4		9B4202	13.1	orange	russet
5		B3723C	12.7	orange	burnt sienna
6		7A2601	10.6	orange	maroon
7		A65F1F	8.6	orange	burnt sienna
8		160302	6.0	red-orange	black
9		8E4E1A	4.3	orange	russet
10		4D1D0A	1.2	orange	very dark orange

Color Families:

Family	%
orange	94.0
red-orange	6.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.134
Mean Local Roughness	0.017
Roughness Uniformity	0.011
Edge Density	0.017
Mean Gradient Magnitude	0.121
Gradient Variance	0.023
Gradient Smoothness	0.0
Directional Coherence	0.004
Pattern Complexity	0.129
Pattern Repetition	1.0
Detail Frequency Ratio	0.617
Spatial Variation	0.084
Texture Consistency	0.393

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.363
Brightness Variance	0.134
Brightness Uniformity	0.632
Brightness Skewness	-0.558
Brightness Entropy	6.803
Rms Contrast	0.134
Michelson Contrast	1.0
Weber Contrast	0.584
Mean Local Contrast	0.017
Contrast Uniformity	0.222
Dynamic Range	0.702
Effective Dynamic Range	0.502
Shadow Percentage	38.781
Midtone Percentage	61.218
Highlight Percentage	0.001
Shadow Clipping	0.013
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.02
Coarse Contrast	0.03
Multiscale Contrast Ratio	0.357
Edge Contrast	0.121
Contrast Clustering	0.607

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.758
Color Clustering	0.345
Color Transition Smoothness	0.672
Transition Uniformity	0.805
Sharp Transition Ratio	0.1
Transition Directionality	0.004
Mean Saturation	0.86
Saturation Variance	0.024
Low Saturation Ratio	0.001
Medium Saturation Ratio	0.262
High Saturation Ratio	0.738
Saturation Clustering	0.999
Hue Concentration	0.992
Complementary Balance	0.0
Analogous Dominance	0.999
Temperature Bias	0.999

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 D5 (power chord) No. 2 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1060.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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