

Nanopublication – Computational Image Analysis – AQC1051

by Arnaud Quercy · Watercolor Study in C5 (power chord) No. 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1051

The artwork Watercolor Study in C5 (power chord) No. 1 (AQC1051) [1] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-07-13. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

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: 1713x2298 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		A55F2E	20.9	orange	burnt sienna
2		853206	19.4	orange	russet
3		9C5626	16.7	orange	burnt sienna
4		7C2903	11.8	orange	russet
5		8C3C0E	11.0	orange	russet
6		A96B3D	8.0	orange	burnt sienna
7		140803	5.1	black	black
8		7F4918	3.1	orange	russet
9		653416	2.7	orange	russet
10		3F2209	1.4	orange	very dark orange

Color Families:

Family	%
orange	94.9
black	5.1

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.106
Mean Local Roughness	0.011
Roughness Uniformity	0.006
Edge Density	0.005
Mean Gradient Magnitude	0.085
Gradient Variance	0.009
Gradient Smoothness	0.0
Directional Coherence	0.011
Pattern Complexity	0.131
Pattern Repetition	1.0
Detail Frequency Ratio	0.612
Spatial Variation	0.07
Texture Consistency	0.322

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.334
Brightness Variance	0.106
Brightness Uniformity	0.683
Brightness Skewness	-0.799
Brightness Entropy	6.263
Rms Contrast	0.106
Michelson Contrast	0.987
Weber Contrast	0.478
Mean Local Contrast	0.011
Contrast Uniformity	0.336
Dynamic Range	0.608
Effective Dynamic Range	0.369
Shadow Percentage	51.613
Midtone Percentage	48.387
Highlight Percentage	0.0
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.014
Coarse Contrast	0.02
Multiscale Contrast Ratio	0.375
Edge Contrast	0.085
Contrast Clustering	0.678

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.721
Color Clustering	0.342
Color Transition Smoothness	0.775
Transition Uniformity	0.925
Sharp Transition Ratio	0.1
Transition Directionality	0.014
Mean Saturation	0.822
Saturation Variance	0.015
Low Saturation Ratio	0.0
Medium Saturation Ratio	0.145
High Saturation Ratio	0.855
Saturation Clustering	0.999
Hue Concentration	0.998
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 C5 (power chord) No. 1 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1051.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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Artist Arnaud Quercy

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