

Nanopublication – Computational Image Analysis –
AQC1058

by Arnaud Quercy · Watercolor Study in D5 (power chord) No. 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1058

Analysis record: Watercolor Study in D5 (power chord) No. 1 (AQC1058) ^[1] by Arnaud Quercy ^[2], per IDS-CMP-2025 ^[3]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2026-07-13.

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: 1665x2220 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		B0682F	18.4	orange	burnt sienna
2		AB6022	17.2	orange	burnt sienna
3		983E02	15.3	orange	russet
4		A65914	12.8	orange	burnt sienna
5		B6713B	12.5	orange	peru
6		A04C04	11.2	orange	russet
7		8E3101	7.3	orange	russet
8		050000	3.2	black	black
9		6F380A	1.2	orange	russet
10		3E1A04	1.0	orange	very dark orange
11		7E0501	0.3	red-orange	maroon [Accent]

Color Families:

Family	%
orange	96.8
black	3.2
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
7E0501	red-orange	maroon	59.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.103
Mean Local Roughness	0.015
Roughness Uniformity	0.01
Edge Density	0.007
Mean Gradient Magnitude	0.109
Gradient Variance	0.017
Gradient Smoothness	0.0
Directional Coherence	0.015
Pattern Complexity	0.131
Pattern Repetition	1.0
Detail Frequency Ratio	0.624
Spatial Variation	0.056
Texture Consistency	0.353

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.393
Brightness Variance	0.103
Brightness Uniformity	0.739
Brightness Skewness	-1.774
Brightness Entropy	6.234
Rms Contrast	0.103
Michelson Contrast	1.0
Weber Contrast	0.405
Mean Local Contrast	0.015
Contrast Uniformity	0.262
Dynamic Range	0.655
Effective Dynamic Range	0.263
Shadow Percentage	22.815
Midtone Percentage	77.185
Highlight Percentage	0.0
Shadow Clipping	1.46
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.018
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.109
Contrast Clustering	0.647

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.737
Color Clustering	0.293
Color Transition Smoothness	0.711
Transition Uniformity	0.854
Sharp Transition Ratio	0.1
Transition Directionality	0.014
Mean Saturation	0.836
Saturation Variance	0.025
Low Saturation Ratio	0.015
Medium Saturation Ratio	0.129
High Saturation Ratio	0.856
Saturation Clustering	0.998
Hue Concentration	0.992
Complementary Balance	0.001
Analogous Dominance	0.996
Temperature Bias	0.996

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. 1 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1058.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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