

AQC1108

Nanopublication – Computational Image Analysis – AQC1108

by Arnaud Quercy · D7 - Research on Harmony - Variations 2 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1108

The artwork D7 - Research on Harmony - Variations 2 (AQC1108) [1] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-10-02. 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: 3024x4032 pixels. Analysis date: 2026-10-02.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		B8AFA0	48.2	yellow-orange	steel gray
2		6D8573	13.1	yellow-green	gray
3		803D25	8.3	orange	russet
4		A0947B	8.1	yellow-orange	rosybrown
5		A0290A	5.3	red-orange	firebrick
6		BA560A	4.8	orange	chocolate
7		261B0F	4.3	orange	very dark gray
8		DCD8CC	3.3	yellow	lightgray
9		A9714D	3.0	orange	peru
10		245146	1.7	green	darkslategray

Color Families:

Family	%
yellow-orange	56.2
orange	20.4
yellow-green	13.1
red-orange	5.3
yellow	3.3
green	1.7

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.181
Mean Local Roughness	0.014
Roughness Uniformity	0.01
Edge Density	0.01
Mean Gradient Magnitude	0.091
Gradient Variance	0.015
Gradient Smoothness	0.0
Directional Coherence	0.014
Pattern Complexity	0.138
Pattern Repetition	1.0
Detail Frequency Ratio	0.631
Spatial Variation	0.12
Texture Consistency	0.655

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.557
Brightness Variance	0.181
Brightness Uniformity	0.676
Brightness Skewness	-0.808
Brightness Entropy	6.892
Rms Contrast	0.181
Michelson Contrast	1.0
Weber Contrast	0.596
Mean Local Contrast	0.013
Contrast Uniformity	0.177
Dynamic Range	0.961
Effective Dynamic Range	0.498
Shadow Percentage	17.65
Midtone Percentage	38.025
Highlight Percentage	44.325
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.016
Coarse Contrast	0.022
Multiscale Contrast Ratio	0.446
Edge Contrast	0.091
Contrast Clustering	0.345

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.771
Color Clustering	0.585
Color Transition Smoothness	0.766
Transition Uniformity	0.889
Sharp Transition Ratio	0.1
Transition Directionality	0.015
Mean Saturation	0.317
Saturation Variance	0.081
Low Saturation Ratio	0.702
Medium Saturation Ratio	0.135
High Saturation Ratio	0.162
Saturation Clustering	0.999
Hue Concentration	0.645
Complementary Balance	0.001
Analogous Dominance	0.774
Temperature Bias	0.539

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). D7 - Research on Harmony - Variations 2 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1108.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/2025/11/ids-cmp-2025-computational-image-analysis-standard-5dq9.html>

WHERE THIS WORK LIVES

Collection: Harmonic Crossing

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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Artist

Arnaud Quercy

Date

2026

Collection

Harmonic Crossing

Certificate

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Asset code

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1

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