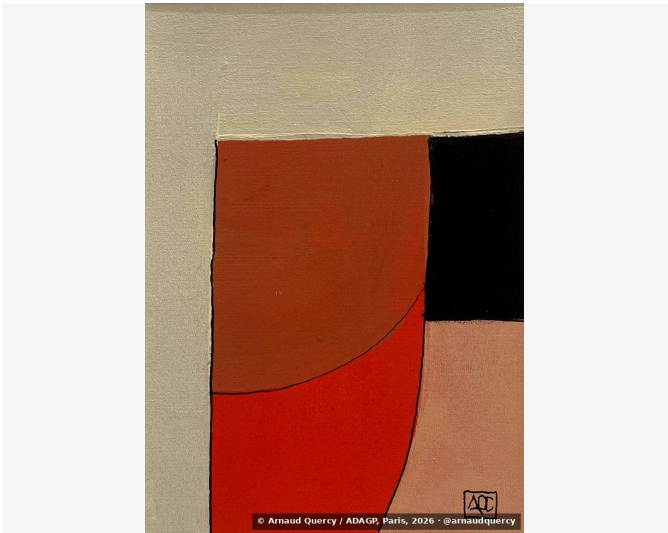


AQC1105

Nanopublication – Computational Image Analysis – AQC1105

by Arnaud Quercy · C Octaves – Research on Harmony – Reflections 44 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC1105

Computational image analysis of artwork C Octaves – Research on Harmony – Reflections 44 (AQC1105) ^[1] by Arnaud Quercy ^[2], performed according to IDS-CMP-2025 ^[3], using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 2026-10-02.

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		B1A89D	33.1	yellow-orange	steel gray
2		A59E94	16.4	yellow-orange	steel gray
3		743018	8.9	orange	russet
4		968C79	8.4	yellow-orange	gray
5		887E6A	8.3	yellow-orange	grey
6		D8D3CA	5.8	yellow-orange	lightgray
7		8F1903	5.6	red-orange	darkred
8		BDB6AA	5.1	yellow-orange	steel gray
9		8C6149	4.7	orange	burnt sienna
10		0F0A07	3.7	black	black

Color Families:

Family	%
yellow-orange	77.1
orange	13.6
red-orange	5.6
black	3.7

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.189
Mean Local Roughness	0.014
Roughness Uniformity	0.008
Edge Density	0.016
Mean Gradient Magnitude	0.089
Gradient Variance	0.01
Gradient Smoothness	0.0
Directional Coherence	0.016
Pattern Complexity	0.136
Pattern Repetition	1.0
Detail Frequency Ratio	0.647
Spatial Variation	0.142
Texture Consistency	0.489

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.554
Brightness Variance	0.189
Brightness Uniformity	0.659
Brightness Skewness	-1.067
Brightness Entropy	6.724
Rms Contrast	0.189
Michelson Contrast	1.0
Weber Contrast	0.648
Mean Local Contrast	0.013
Contrast Uniformity	0.313
Dynamic Range	0.965
Effective Dynamic Range	0.596
Shadow Percentage	18.26
Midtone Percentage	52.263
Highlight Percentage	29.477
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.016
Coarse Contrast	0.02
Multiscale Contrast Ratio	0.509
Edge Contrast	0.089
Contrast Clustering	0.511

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.77
Color Clustering	0.686
Color Transition Smoothness	0.774
Transition Uniformity	0.933
Sharp Transition Ratio	0.1
Transition Directionality	0.018
Mean Saturation	0.263
Saturation Variance	0.076
Low Saturation Ratio	0.783
Medium Saturation Ratio	0.066
High Saturation Ratio	0.151
Saturation Clustering	0.999
Hue Concentration	0.974
Complementary Balance	0.0
Analogous Dominance	0.998
Temperature Bias	0.997

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). C Octaves - Research on Harmony - Reflections 44 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1105.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

Series: Octaves
Collection: Harmonic Crossing

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

CHECKSUM (SHA-256)

fe69eb2e5f90793d6a3f5c77adf1ddb85e8d9e78d6c215faee48f0b99da95829

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Artist Arnaud Quercy

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