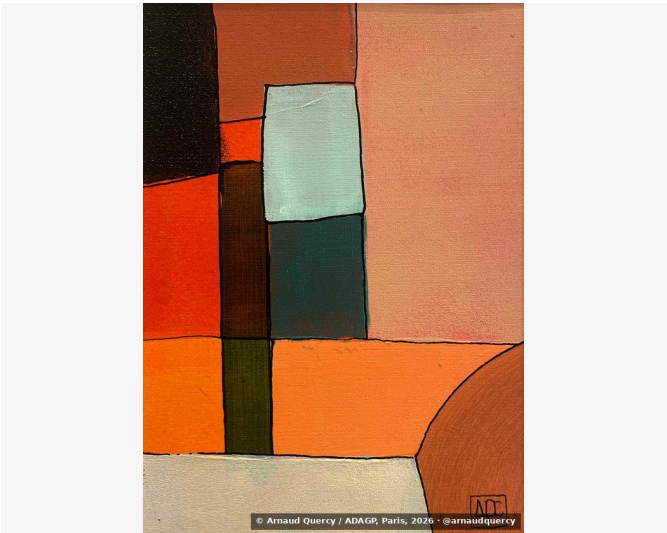


AQC1111

Nanopublication – Computational Image Analysis – AQC1111

by Arnaud Quercy · D7 - Research on Harmony - Variations 3 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1111

K-means clustering (10 colors) performed on artwork D7 - Research on Harmony - Variations 3 (AQC1111) [1] by Arnaud Quercy [2] on 2026-10-02, 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: 3024x4032 pixels. Analysis date: 2026-10-02.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		BCB3A4	33.0	yellow-orange	steel gray
2		AEA595	15.3	yellow-orange	steel gray
3		9F6A50	12.1	orange	burnt sienna
4		918B78	9.2	yellow	gray
5		814227	6.6	orange	russet
6		271B0F	6.4	orange	very dark gray
7		DCD7CB	5.4	yellow-orange	lightgray
8		AA3A07	4.8	orange	russet
9		B75F29	4.3	orange	burnt sienna
10		2E332C	2.9	yellow-green	darkslategray
11		582B1F	0.3	red-orange	russet [Accent]

Color Families:

Family	%
yellow-orange	53.7
orange	34.2
yellow	9.2
yellow-green	2.9
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
582B1F	red-orange	russet	26.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.194
Mean Local Roughness	0.015
Roughness Uniformity	0.009
Edge Density	0.02
Mean Gradient Magnitude	0.101
Gradient Variance	0.013
Gradient Smoothness	0.0
Directional Coherence	0.013
Pattern Complexity	0.137
Pattern Repetition	1.0
Detail Frequency Ratio	0.646
Spatial Variation	0.123
Texture Consistency	0.71

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.556
Brightness Variance	0.194
Brightness Uniformity	0.651
Brightness Skewness	-0.811
Brightness Entropy	7.078
Rms Contrast	0.194
Michelson Contrast	1.0
Weber Contrast	0.622
Mean Local Contrast	0.014
Contrast Uniformity	0.306
Dynamic Range	0.988
Effective Dynamic Range	0.671
Shadow Percentage	15.973
Midtone Percentage	40.304
Highlight Percentage	43.723
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.018
Coarse Contrast	0.023
Multiscale Contrast Ratio	0.464
Edge Contrast	0.101
Contrast Clustering	0.29

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.751
Color Clustering	0.678
Color Transition Smoothness	0.74
Transition Uniformity	0.904
Sharp Transition Ratio	0.1
Transition Directionality	0.013
Mean Saturation	0.312
Saturation Variance	0.073
Low Saturation Ratio	0.667
Medium Saturation Ratio	0.184
High Saturation Ratio	0.148
Saturation Clustering	0.999
Hue Concentration	0.934
Complementary Balance	0.001
Analogous Dominance	0.968
Temperature Bias	0.936

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 3 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1111.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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