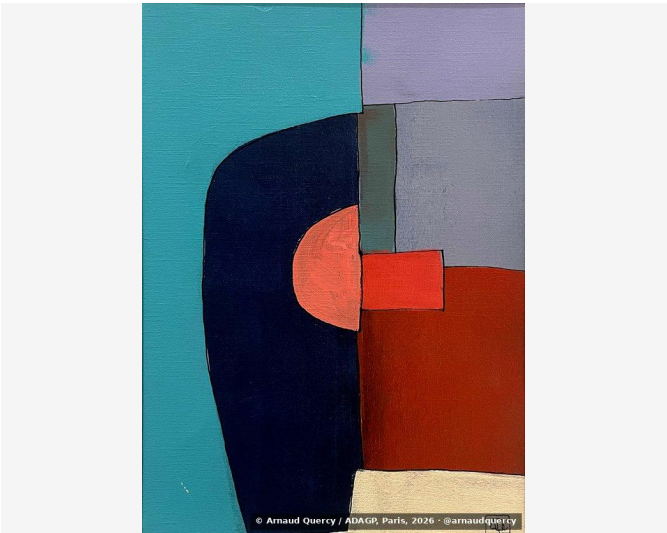


AQC1145

Nanopublication – Computational Image Analysis – AQC1145

by Arnaud Quercy · Db Major 7 - Research on Harmony - Variations 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1145

K-means clustering (10 colors) performed on artwork Db Major 7 - Research on Harmony - Variations 1 (AQC1145) ^[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		D9CDB9	21.5	yellow-orange	lightgray
2		CBBCA7	16.9	yellow-orange	silver
3		B8A992	14.4	yellow-orange	rosybrown
4		32757E	13.2	blue-green	seagreen
5		0B1226	11.7	blue-violet	very dark indigo
6		6F6E7D	8.7	violet	dusty mauve
7		6D230D	6.7	red-orange	maroon
8		977B64	2.5	orange	gray
9		A54335	2.4	red-orange	burnt sienna
10		3F4D4E	1.9	blue-green	darkslategray
11		170201	0.3	red	black [Accent]
12		F1EAD7	0.3	yellow	antiquewhite [Accent]

Color Families:

Family	%
yellow-orange	52.8
blue-green	15.2
blue-violet	11.7
red-orange	9.0
violet	8.7
orange	2.5
red	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
170201	red	black	8.2
F1EAD7	yellow	antiquewhite	10.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.255
Mean Local Roughness	0.018
Roughness Uniformity	0.012
Edge Density	0.039
Mean Gradient Magnitude	0.118
Gradient Variance	0.019
Gradient Smoothness	0.0
Directional Coherence	0.006
Pattern Complexity	0.138
Pattern Repetition	1.0
Detail Frequency Ratio	0.655
Spatial Variation	0.186
Texture Consistency	0.715

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.538
Brightness Variance	0.255
Brightness Uniformity	0.527
Brightness Skewness	-0.531
Brightness Entropy	7.299
Rms Contrast	0.255
Michelson Contrast	1.0
Weber Contrast	0.87
Mean Local Contrast	0.018
Contrast Uniformity	0.246
Dynamic Range	1.0
Effective Dynamic Range	0.765
Shadow Percentage	21.45
Midtone Percentage	30.403
Highlight Percentage	48.147
Shadow Clipping	0.011
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.013
Medium Contrast	0.022
Coarse Contrast	0.026
Multiscale Contrast Ratio	0.505
Edge Contrast	0.118
Contrast Clustering	0.285

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.779
Color Clustering	0.809
Color Transition Smoothness	0.698
Transition Uniformity	0.866
Sharp Transition Ratio	0.1
Transition Directionality	0.005
Mean Saturation	0.356
Saturation Variance	0.075
Low Saturation Ratio	0.633
Medium Saturation Ratio	0.214
High Saturation Ratio	0.152
Saturation Clustering	0.999
Hue Concentration	0.081
Complementary Balance	0.081
Analogous Dominance	0.549
Temperature Bias	-0.095

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). Db Major 7 - Research on Harmony - Variations 1 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1145.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)

5ddbe7ebba1cecd1ac1aacbd59498d5a0fd8a4c7eef4c47bdb0579c89a1c0f8e

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Published	2026-10-02

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