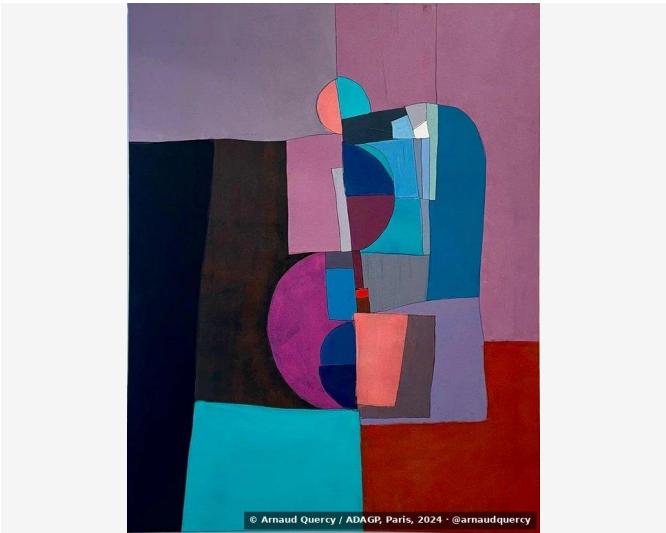


Nanopublication – Computational Image Analysis – AQC0701

by Arnaud Quercy · Db Major – Research on Harmony – Variation 3 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0701

The artwork Db Major – Research on Harmony – Variation 3 (AQC0701) [1] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-10-03. 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: 813x1044 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		9E6482	18.3	red	dusty mauve
2		796E89	17.7	violet	dusty mauve
3		020820	14.0	blue-violet	very dark indigo
4		0397AF	12.5	blue-green	darkcyan
5		840B02	11.0	red-orange	maroon
6		241E23	9.9	gray	very dark gray
7		74305D	6.3	red-violet	dusty mauve
8		044F7E	6.1	blue-violet	grayish purple
9		E06C6A	2.3	red-orange	indianred
10		9CB3C3	1.9	blue	steel gray

Color Families:

Family	%
blue-violet	20.1
red	18.3
violet	17.7
red-orange	13.2
blue-green	12.5
gray	9.9
red-violet	6.3
blue	1.9

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.178
Mean Local Roughness	0.012
Roughness Uniformity	0.024
Edge Density	0.018
Mean Gradient Magnitude	0.075
Gradient Variance	0.044
Gradient Smoothness	0.0
Directional Coherence	0.246
Pattern Complexity	0.122
Pattern Repetition	1.0
Detail Frequency Ratio	0.624
Spatial Variation	0.13
Texture Consistency	0.571

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.32
Brightness Variance	0.178
Brightness Uniformity	0.443
Brightness Skewness	-0.234
Brightness Entropy	6.814
Rms Contrast	0.178
Michelson Contrast	1.0
Weber Contrast	0.898
Mean Local Contrast	0.011
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.506
Shadow Percentage	46.64
Midtone Percentage	52.39
Highlight Percentage	0.971
Shadow Clipping	0.0
Highlight Clipping	0.002
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.015
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.075
Contrast Clustering	0.429

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.783
Color Clustering	0.492
Color Transition Smoothness	0.777
Transition Uniformity	0.674
Sharp Transition Ratio	0.1
Transition Directionality	0.241
Mean Saturation	0.604
Saturation Variance	0.119
Low Saturation Ratio	0.265
Medium Saturation Ratio	0.285
High Saturation Ratio	0.45
Saturation Clustering	0.999
Hue Concentration	0.425
Complementary Balance	0.152
Analogous Dominance	0.492
Temperature Bias	0.094

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. (2024). Db Major - Research on Harmony - Variation 3 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0701.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)

f6f8f69f6a706f8716ef7946b02bbade44aaa8f770c4444f8757c36da75ad3ca

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Artist Arnaud Quercy

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