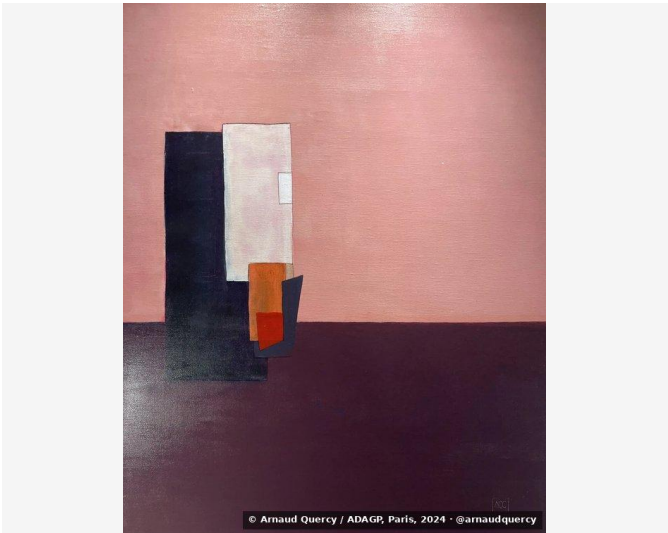


Nanopublication – Computational Image Analysis – AQC0599

by Arnaud Quercy · F minor – Research on Harmony – Variation 5 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0599

Computational image analysis of artwork F minor – Research on Harmony – Variation 5 (AQC0599) ^[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 2025-10-03.

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: 2599x3264 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		371B2B	23.7	red-violet	very dark purple
2		D09791	17.5	red-orange	rosybrown
3		DFA8A3	15.3	red-orange	tan
4		BE8580	14.3	red-orange	palevioletred
5		482C3A	8.7	red	dusty mauve
6		1C1B2B	6.4	violet	very dark gray
7		E0CDC9	5.0	red-orange	lightgray
8		5F4852	4.8	red	dusty mauve
9		8F6F70	3.1	red-orange	gray
10		AA451E	1.2	orange	burnt sienna
11		A4AFB6	0.3	blue	steel gray [Accent]

Color Families:

Family	%
red-orange	55.2
red-violet	23.7
red	13.5
violet	6.4
orange	1.2
blue	0.3

Accent Colors:

Hex	Family	Name	Chroma
A4AFB6	blue	steel gray	5.8

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.254
Mean Local Roughness	0.019
Roughness Uniformity	0.024
Edge Density	0.083
Mean Gradient Magnitude	0.133
Gradient Variance	0.044
Gradient Smoothness	0.0
Directional Coherence	0.161
Pattern Complexity	0.145
Pattern Repetition	1.0
Detail Frequency Ratio	0.677
Spatial Variation	0.215
Texture Consistency	0.285

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.447
Brightness Variance	0.254
Brightness Uniformity	0.432
Brightness Skewness	-0.102
Brightness Entropy	7.155
Rms Contrast	0.254
Michelson Contrast	1.0
Weber Contrast	0.818
Mean Local Contrast	0.019
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.659
Shadow Percentage	42.522
Midtone Percentage	29.365
Highlight Percentage	28.113
Shadow Clipping	0.0
Highlight Clipping	0.002
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.023
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.133
Contrast Clustering	0.715

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.76
Color Clustering	0.805
Color Transition Smoothness	0.658
Transition Uniformity	0.718
Sharp Transition Ratio	0.1
Transition Directionality	0.172
Mean Saturation	0.354
Saturation Variance	0.018
Low Saturation Ratio	0.34
Medium Saturation Ratio	0.649
High Saturation Ratio	0.011
Saturation Clustering	1.0
Hue Concentration	0.852
Complementary Balance	0.001
Analogous Dominance	0.908
Temperature Bias	0.891

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). F minor - Research on Harmony - Variation 5 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0599.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: F minor
Collection: Harmonic Crossing

DOCUMENTED AT

Catalogue Raisonné – F minor - Research on Harmony - Variation 5 – F minor – Research on Harmony – Variation 5 – Harmonic-Chromatic Oil Painting – Arnaud Quercy (2024)
Gallery – F minor - Research on Harmony - Variation 5

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

d226e908942e1d49ddc5b0be3895ff8a5beddaf4765545b758d78aeae1ebe1

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