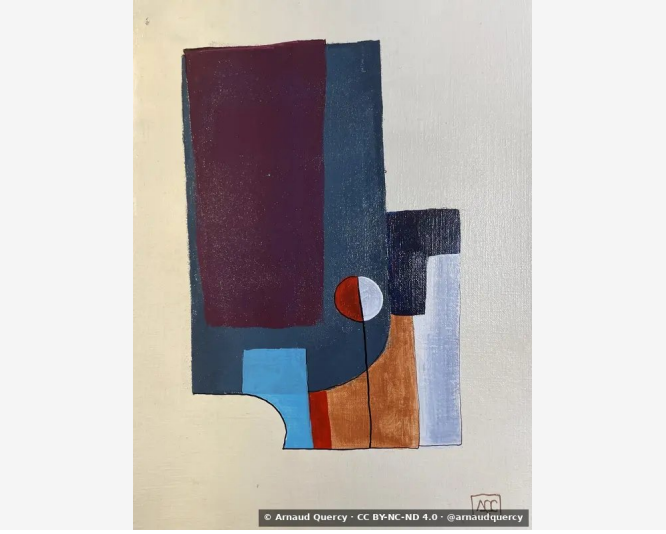
AQC0595 | NAN-COL000350

Nanopublication — Computational Image Analysis - AQC0595

by Arnaud Quercy · F minor - Research on Harmony - Variation 1 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0595

Computational image analysis [3] of artwork F minor - Research [1] on Harmony - Variation 1 (AQC0595) [2] by Arnaud Quercy [2] 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 2026-02-04.

CONTEXT

Analysis performed according to MMIDS-CMP-2025 [3] includes four metric categories: (1) Color distribution via k-means (10 colors), (2) Texture analysis using Haralick features, (3) Brightness and contrast measurements, (4) Spatial pattern characterization. Source image [5]: 2611x3481 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D6D4D1	21.5	white	lightgray
2		CAC5BB	19.1	yellow-orange	silver
3		492738	17.0	red	dusty mauve
4		E4D8BC	16.8	yellow-orange	wheat
5		314056	12.6	blue-violet	grayish purple
6		A86844	3.1	orange	burnt sienna
7		9FA9C3	3.0	blue-violet	steel gray
8		181A2B	2.6	violet	very dark gray
9		4D90BE	2.4	blue-violet	grayish purple
10		8E3618	1.9	orange	russet
11		160403	0.3	red-orange	black [Accent]

Color Families:

Family	%
yellow-orange	36.0
white	21.5
blue-violet	17.9
red	17.0
orange	5.0
violet	2.6
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
160403	red-orange	black	6.3

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.285
Mean Local Roughness	0.018
Roughness Uniformity	0.031
Edge Density	0.059
Mean Gradient Magnitude	0.129
Gradient Variance	0.077
Gradient Smoothness	0.0
Directional Coherence	0.131
Pattern Complexity	0.118
Pattern Repetition	1.0
Detail Frequency Ratio	0.663
Spatial Variation	0.194
Texture Consistency	0.447

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.591
Brightness Variance	0.285
Brightness Uniformity	0.517
Brightness Skewness	-0.512
Brightness Entropy	6.825
Rms Contrast	0.285
Michelson Contrast	1.0
Weber Contrast	0.78
Mean Local Contrast	0.018
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.694
Shadow Percentage	32.396
Midtone Percentage	8.516
Highlight Percentage	59.088
Shadow Clipping	0.004
Highlight Clipping	0.149
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.024
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.129
Contrast Clustering	0.553

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.775
Color Clustering	0.8
Color Transition Smoothness	0.663
Transition Uniformity	0.475
Sharp Transition Ratio	0.1
Transition Directionality	0.142
Mean Saturation	0.256
Saturation Variance	0.05
Low Saturation Ratio	0.628
Medium Saturation Ratio	0.34
High Saturation Ratio	0.032
Saturation Clustering	0.999
Hue Concentration	0.442
Complementary Balance	0.083
Analogous Dominance	0.541
Temperature Bias	0.126

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 Multimodal Institute's computational imaging systems.

REFERENCES

[1] Arnaud Quercy (2024). F minor - Research on Harmony - Variation 1 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0595.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/f-minor-research-on-harmony-variation-1_6nm.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html

WHERE THIS WORK LIVES

THEMATIC ELEMENTS

chromesthetic mapping · F minor triad · acrylic geometric · synesthetic exploration · harmonic color translation · musical visualization · color-sound correspondence · contemporary abstraction

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

1a3d8fb31edcb1a5200ea4c89ecabdb2518fb66849b9668834c838a0be87eedf

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