

AQC1142

Nanopublication – Computational Image Analysis – AQC1142

by Arnaud Quercy · F Minor – Research on Harmony – Variations 24 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC1142

K-means clustering (10 colors) performed on artwork F Minor – Research on Harmony – Variations 24 (AQC1142) [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		D1C4B1	39.1	yellow-orange	silver
2		BAAB97	15.2	yellow-orange	steel gray
3		9F9789	10.2	yellow-orange	rosybrown
4		60626D	7.3	violet	dusty mauve
5		130E0C	7.1	black	black
6		1A2236	6.5	violet	very dark gray
7		7F778B	6.1	violet	dusty mauve
8		8E1C09	3.9	red-orange	darkred
9		8B6E58	3.4	orange	dimgray
10		AC4638	1.1	red-orange	burnt sienna
11		58353B	0.3	red	darkslategray [Accent]

Color Families:

Family	%
yellow-orange	64.6
violet	19.9
black	7.1
red-orange	5.0
orange	3.4
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
58353B	red	darkslategray	17.3

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.242
Mean Local Roughness	0.013
Roughness Uniformity	0.006
Edge Density	0.01
Mean Gradient Magnitude	0.083
Gradient Variance	0.008
Gradient Smoothness	0.0
Directional Coherence	0.024
Pattern Complexity	0.136
Pattern Repetition	1.0
Detail Frequency Ratio	0.618
Spatial Variation	0.169
Texture Consistency	0.567

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.57
Brightness Variance	0.242
Brightness Uniformity	0.575
Brightness Skewness	-0.925
Brightness Entropy	7.051
Rms Contrast	0.242
Michelson Contrast	1.0
Weber Contrast	0.837
Mean Local Contrast	0.012
Contrast Uniformity	0.41
Dynamic Range	0.984
Effective Dynamic Range	0.725
Shadow Percentage	18.176
Midtone Percentage	31.823
Highlight Percentage	50.001
Shadow Clipping	0.007
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.015
Coarse Contrast	0.019
Multiscale Contrast Ratio	0.518
Edge Contrast	0.083
Contrast Clustering	0.433

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.762
Color Clustering	0.823
Color Transition Smoothness	0.785
Transition Uniformity	0.939
Sharp Transition Ratio	0.1
Transition Directionality	0.025
Mean Saturation	0.246
Saturation Variance	0.043
Low Saturation Ratio	0.808
Medium Saturation Ratio	0.128
High Saturation Ratio	0.063
Saturation Clustering	0.999
Hue Concentration	0.488
Complementary Balance	0.034
Analogous Dominance	0.733
Temperature Bias	0.479

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). F Minor - Research on Harmony - Variations 24 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1142.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

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

0b47d9a3a048bc404aa3888b1ef2ffddcf8f1a9e7c92a2cbb8b0bfda247655fb

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