

AQC1141

Nanopublication – Computational Image Analysis – AQC1141

by Arnaud Quercy · F Minor – Research on Harmony – Variations 23 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC1141

Computational image analysis of artwork F Minor – Research on Harmony – Variations 23 (AQC1141) ^[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 2026-10-02.

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		D8CAB4	22.9	yellow-orange	silver
2		CDBEA6	16.1	yellow-orange	tan
3		BCAD95	15.1	yellow-orange	steel gray
4		1A1513	10.0	black	black
5		4D5767	9.3	blue-violet	grayish purple
6		9C9488	7.2	yellow-orange	rosybrown
7		0C3563	6.7	blue-violet	grayish purple
8		95160A	6.1	red-orange	darkred
9		76737D	3.9	violet	dusty mauve
10		996E56	2.8	orange	burnt sienna
11		482639	0.3	red-violet	dusty mauve [Accent]
12		432833	0.3	red	dusty mauve [Accent]
13		2C363F	0.3	blue	grayish purple [Accent]

Color Families:

Family	%
yellow-orange	61.3
blue-violet	15.9
black	10.0
red-orange	6.1
violet	3.9
orange	2.8
red-violet	0.3
red	0.3
blue	0.3

Accent Colors:

Hex	Family	Name	Chroma
482639	red-violet	dusty mauve	18.7
432833	red	dusty mauve	15.1
2C363F	blue	grayish purple	7.3

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.257
Mean Local Roughness	0.015
Roughness Uniformity	0.009
Edge Density	0.023
Mean Gradient Magnitude	0.098
Gradient Variance	0.014
Gradient Smoothness	0.0
Directional Coherence	0.009
Pattern Complexity	0.135
Pattern Repetition	1.0
Detail Frequency Ratio	0.635
Spatial Variation	0.196
Texture Consistency	0.518

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.549
Brightness Variance	0.257
Brightness Uniformity	0.532
Brightness Skewness	-0.619
Brightness Entropy	7.261
Rms Contrast	0.257
Michelson Contrast	1.0
Weber Contrast	0.82
Mean Local Contrast	0.015
Contrast Uniformity	0.26
Dynamic Range	1.0
Effective Dynamic Range	0.725
Shadow Percentage	27.12
Midtone Percentage	21.167
Highlight Percentage	51.713
Shadow Clipping	0.009
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.018
Coarse Contrast	0.022
Multiscale Contrast Ratio	0.512
Edge Contrast	0.098
Contrast Clustering	0.482

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.794
Color Clustering	0.785
Color Transition Smoothness	0.748
Transition Uniformity	0.903
Sharp Transition Ratio	0.1
Transition Directionality	0.009
Mean Saturation	0.296
Saturation Variance	0.064
Low Saturation Ratio	0.76
Medium Saturation Ratio	0.111
High Saturation Ratio	0.129
Saturation Clustering	0.999
Hue Concentration	0.486
Complementary Balance	0.245
Analogous Dominance	0.75
Temperature Bias	0.504

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 23 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1141.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)

e5801edebe495822471f9320b686afe05629993c1c075baac755de5fffb6a9cc5

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Artist	Arnaud Quercy
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