

Nanopublication – Computational Image Analysis –
AQC0786

by Arnaud Quercy · F Minor – Research on Harmony – Variation 15 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0786

Computational image analysis of artwork F Minor – Research on Harmony – Variation 15 (AQC0786) ^[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: 2435x3652 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		29222A	28.8	red-violet	very dark gray
2		BC78A3	20.9	red-violet	rosybrown
3		3E88DF	16.5	blue-violet	royalblue
4		574477	9.7	violet	dusty mauve
5		342B60	6.3	violet	dusty mauve
6		5864A3	4.8	violet	dusty mauve
7		993952	4.6	red	brown
8		B54A6D	4.5	red	indianred
9		DCB2C1	2.2	red	thistle
10		C8442F	1.9	red-orange	chocolate
11		8C7B3A	0.3	yellow-orange	olivedrab [Accent]
12		5A3C2A	0.3	orange	dark brown [Accent]

Color Families:

Family	%
red-violet	49.6
violet	20.7
blue-violet	16.5
red	11.3
red-orange	1.9
yellow-orange	0.3
orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
8C7B3A	yellow-orange	olivedrab	37.1
5A3C2A	orange	dark brown	19.4

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.178
Mean Local Roughness	0.007
Roughness Uniformity	0.009
Edge Density	0.021
Mean Gradient Magnitude	0.083
Gradient Variance	0.016
Gradient Smoothness	0.0
Directional Coherence	0.047
Pattern Complexity	0.108
Pattern Repetition	1.0
Detail Frequency Ratio	0.564
Spatial Variation	0.138
Texture Consistency	0.356

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.366
Brightness Variance	0.178
Brightness Uniformity	0.513
Brightness Skewness	0.054
Brightness Entropy	7.049
Rms Contrast	0.178
Michelson Contrast	1.0
Weber Contrast	0.757
Mean Local Contrast	0.01
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.482
Shadow Percentage	43.094
Midtone Percentage	54.728
Highlight Percentage	2.178
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.004
Medium Contrast	0.012
Coarse Contrast	0.025
Multiscale Contrast Ratio	0.152
Edge Contrast	0.083
Contrast Clustering	0.644

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.788
Color Clustering	0.63
Color Transition Smoothness	0.773
Transition Uniformity	0.889
Sharp Transition Ratio	0.1
Transition Directionality	0.066
Mean Saturation	0.435
Saturation Variance	0.041
Low Saturation Ratio	0.275
Medium Saturation Ratio	0.554
High Saturation Ratio	0.171
Saturation Clustering	1.0
Hue Concentration	0.668
Complementary Balance	0.006
Analogous Dominance	0.633
Temperature Bias	0.214

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 15 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0786.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)

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