AQC0636

Nanopublication — Computational Image Analysis - AQC0636

by Arnaud Quercy · F minor - Research on Harmony - Variation 7 · 2024

Claim 1: Computational Image Analysis - AQC0636

> The artwork F minor - Research [1] on Harmony - Variation 7 (AQC0636) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

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]: 2187x3280 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E93216	21.9	red-orange	orangered
2		512C24	19.9	red-orange	dark brown
3		23150B	11.9	orange	very dark gray
4		4A6378	11.7	blue-violet	grayish purple
5		35475D	9.0	blue-violet	grayish purple
6		6D808A	7.2	blue	blue gray
7		735E57	6.2	orange	dimgray
8		9C3A23	5.5	red-orange	brown
9		ECC596	4.3	yellow-orange	burlywood
10		DE8363	2.4	orange	darksalmon
11		FBEBB2	0.3	yellow	moccasin [Accent]
12		7BA5AF	0.3	blue-green	cadetblue [Accent]

Color Families:

Family	%
red-orange	47.3
blue-violet	20.7
orange	20.5
blue	7.2
yellow-orange	4.3
yellow	0.3
blue-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
FBEBB2	yellow	moccasin	30.1
7BA5AF	blue-green	cadetblue	15.6

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.161
Mean Local Roughness	0.018
Roughness Uniformity	0.024
Edge Density	0.068
Mean Gradient Magnitude	0.162
Gradient Variance	0.065
Gradient Smoothness	0.0
Directional Coherence	0.02
Pattern Complexity	0.113
Pattern Repetition	1.0
Detail Frequency Ratio	0.623
Spatial Variation	0.092
Texture Consistency	0.55

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.336
Brightness Variance	0.161
Brightness Uniformity	0.522
Brightness Skewness	0.816
Brightness Entropy	7.086
Rms Contrast	0.161
Michelson Contrast	1.0
Weber Contrast	0.728
Mean Local Contrast	0.021
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.58
Shadow Percentage	46.057
Midtone Percentage	49.0
Highlight Percentage	4.943
Shadow Clipping	0.008
Highlight Clipping	0.004
Tonal Balance	0.0
Fine Contrast	0.009
Medium Contrast	0.027
Coarse Contrast	0.048
Multiscale Contrast Ratio	0.185
Edge Contrast	0.162
Contrast Clustering	0.45

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.783
Color Clustering	0.461

Metric	Value
Color Transition Smoothness	0.563
Transition Uniformity	0.548
Sharp Transition Ratio	0.1
Transition Directionality	0.025
Mean Saturation	0.575
Saturation Variance	0.066
Low Saturation Ratio	0.149
Medium Saturation Ratio	0.526
High Saturation Ratio	0.325
Saturation Clustering	0.998
Hue Concentration	0.518
Complementary Balance	0.207
Analogous Dominance	0.756
Temperature Bias	0.513

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 7 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0636.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/f-minor-research-on-harmony-variation-7_73k.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

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

f82baf51eb85bf82069ef5022542869b7776651afe7190e49ee2612a1a-fa38e9

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