AQC0831

Nanopublication — Computational Image Analysis - AQC0831

by Arnaud Quercy · F Minor - Research on Harmony - Variation 17 · 2025

Claim 1: Computational Image Analysis - AQC0831

> Analysis record [3]: F Minor [1] - Research on Harmony - Variation 17 (AQC0831) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 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]: 2407x3209 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		DDD4AD	17.0	yellow	palegoldenrod
2		CEC19F	16.7	yellow-orange	tan
3		B6AB99	15.2	yellow-orange	steel gray
4		DEE0E1	14.4	white	gainsboro
5		A29786	12.0	yellow-orange	rosybrown
6		CBD0D9	7.7	blue-violet	lightgray
7		2F272D	6.4	red-violet	very dark gray
8		877873	4.7	orange	gray
9		5B4266	4.3	red-violet	dusty mauve
10		CC774B	1.5	orange	peru
11		D78B75	0.3	red-orange	darksalmon [Accent]

Color Families:

Family	%
yellow-orange	43.9
yellow	17.0
white	14.4
red-violet	10.8
blue-violet	7.7
orange	6.2
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
D78B75	red-orange	darksalmon	35.4

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.197
Mean Local Roughness	0.022
Roughness Uniformity	0.022
Edge Density	0.12
Mean Gradient Magnitude	0.171
Gradient Variance	0.051
Gradient Smoothness	0.0
Directional Coherence	0.024
Pattern Complexity	0.114
Pattern Repetition	1.0
Detail Frequency Ratio	0.631
Spatial Variation	0.122
Texture Consistency	0.561

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.687
Brightness Variance	0.197
Brightness Uniformity	0.713
Brightness Skewness	-1.391
Brightness Entropy	7.18
Rms Contrast	0.197
Michelson Contrast	1.0
Weber Contrast	0.588
Mean Local Contrast	0.023
Contrast Uniformity	0.051
Dynamic Range	1.0
Effective Dynamic Range	0.69
Shadow Percentage	9.326
Midtone Percentage	24.602
Highlight Percentage	66.072
Shadow Clipping	0.005
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.012
Medium Contrast	0.028
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.171
Contrast Clustering	0.439

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.737
Color Clustering	0.733
Color Transition Smoothness	0.573
Transition Uniformity	0.661
Sharp Transition Ratio	0.1
Transition Directionality	0.028

Metric	Value
Mean Saturation	0.184
Saturation Variance	0.016
Low Saturation Ratio	0.879
Medium Saturation Ratio	0.114
High Saturation Ratio	0.007
Saturation Clustering	0.999
Hue Concentration	0.711
Complementary Balance	0.002
Analogous Dominance	0.805
Temperature Bias	0.817

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 (2025). F Minor - Research on Harmony - Variation 17 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0831.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/01/f-minor-research-on-harmony-variation-17_97e.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)

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