AQC0761

Nanopublication — Computational Image Analysis - AQC0761

by Arnaud Quercy · F Minor - Research on Harmony - Variation 14 · 2024

Claim 1: Computational Image Analysis - AQC0761

> Analysis record [3]: F Minor [1] - Research on Harmony - Variation 14 (AQC0761) [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]: 3024x4032 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		DD7597	24.2	red	palevioletred
2		30242C	20.1	red-violet	very dark gray
3		583B63	10.2	red-violet	dusty mauve
4		6B4F7D	9.6	violet	dusty mauve
5		EE90AE	9.2	red	hotpink
6		71AEE9	6.8	blue-violet	cornflowerblue
7		48A2EF	6.0	blue-violet	dodgerblue
8		C94965	5.5	red	indianred
9		B23543	5.4	red-orange	brown
10		4469BC	3.0	violet	steelblue
11		AACEEA	0.3	blue	lightblue [Accent]
12		F4BCA6	0.3	orange	lightpink [Accent]
13		887F5B	0.3	yellow	gray [Accent]

Color Families:

Family	%
red	38.9
red-violet	30.3
blue-violet	12.8
violet	12.6
red-orange	5.4
blue	0.3
orange	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
AACEEA	blue	lightblue	19.0
F4BCA6	orange	lightpink	25.5
887F5B	yellow	gray	21.2

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.19
Mean Local Roughness	0.011
Roughness Uniformity	0.011
Edge Density	0.041
Mean Gradient Magnitude	0.113
Gradient Variance	0.021
Gradient Smoothness	0.0
Directional Coherence	0.03
Pattern Complexity	0.116
Pattern Repetition	1.0
Detail Frequency Ratio	0.58
Spatial Variation	0.148
Texture Consistency	0.486

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.44
Brightness Variance	0.19
Brightness Uniformity	0.568
Brightness Skewness	-0.227
Brightness Entropy	7.144
Rms Contrast	0.19
Michelson Contrast	1.0
Weber Contrast	0.752
Mean Local Contrast	0.014
Contrast Uniformity	0.0
Dynamic Range	0.996
Effective Dynamic Range	0.541
Shadow Percentage	32.572
Midtone Percentage	60.61
Highlight Percentage	6.818
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.005
Medium Contrast	0.017
Coarse Contrast	0.032
Multiscale Contrast Ratio	0.162
Edge Contrast	0.113
Contrast Clustering	0.514

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.759
Color Clustering	0.571

Metric	Value
Color Transition Smoothness	0.705
Transition Uniformity	0.858
Sharp Transition Ratio	0.1
Transition Directionality	0.043
Mean Saturation	0.453
Saturation Variance	0.025
Low Saturation Ratio	0.198
Medium Saturation Ratio	0.725
High Saturation Ratio	0.077
Saturation Clustering	1.0
Hue Concentration	0.673
Complementary Balance	0.007
Analogous Dominance	0.674
Temperature Bias	0.461

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 14 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0761.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/f-minor-research-on-harmony-variation-14_8g6.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)

4f5cd5a9665cc5a54db38e96c013fc84e802456f724960886650a18f-d0152496

Artist	Arnaud Quercy
Date	2024
Collection	Synesthetic Explorations
Certificate	20241201-0258
Asset code	AQC0761
Version	1
Published	2026-04-09

Published by: Art Quam Anima Publishing New York LLC — publishing.artquamanima.com

Date of publication: 2026-04-09

Persistent URI: https://multimodal.institute/en/nanopubs/2026/02/AQC0761-computational-image-analysis-aqc0761.pdf