AQC0879 | NAN-COL000086

Nanopublication — Computational Image Analysis - AQC0879

by Arnaud Quercy · F Minor - Research on Harmony - Variations 19 · 2025

CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0879

The artwork F Minor [1] - Research on Harmony - Variations 19 (AQC0879) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-12-11. 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]: 1957x2936 pixels. Analysis date: 2025-12-11.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E97E6C	17.4	red-orange	salmon
2		4C5676	15.3	blue-violet	grayish purple
3		66799C	13.5	blue-violet	grayish purple
4		ECBD9A	13.0	orange	burlywood
5		C07D5E	10.0	orange	peru
6		604B37	9.6	orange	dark brown
7		8F9EBD	7.3	blue-violet	steel gray
8		E72813	6.3	red-orange	orangered
9		2D150F	4.4	red-orange	very dark red
10		CDD5E5	3.3	blue-violet	gainsboro
11		FCEBBE	0.3	yellow-orange	bisque [Accent]
12		F8F5E4	0.3	yellow	white [Accent]
13		5092B8	0.3	blue	steelblue [Accent]
14		DF8393	0.3	red	palevioletred [Accent]
15		BE99B7	0.3	red-violet	steel gray [Accent]

Color Families:

Family	%
blue-violet	39.4
orange	32.5
red-orange	28.1
yellow-orange	0.3
yellow	0.3
blue	0.3
red	0.3
red-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
FCEBBE	yellow-orange	bisque	24.0
F8F5E4	yellow	white	9.2
5092B8	blue	steelblue	27.9
DF8393	red	palevioletred	37.7
BE99B7	red-violet	steel gray	21.5

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.192
Mean Local Roughness	0.046
Roughness Uniformity	0.044
Edge Density	0.193
Mean Gradient Magnitude	0.369
Gradient Variance	0.204
Gradient Smoothness	0.0
Directional Coherence	0.011
Pattern Complexity	0.12
Pattern Repetition	1.0
Detail Frequency Ratio	0.65
Spatial Variation	0.066
Texture Consistency	0.789

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.511
Brightness Variance	0.192
Brightness Uniformity	0.625
Brightness Skewness	-0.034
Brightness Entropy	7.554
Rms Contrast	0.192
Michelson Contrast	1.0
Weber Contrast	0.633
Mean Local Contrast	0.051
Contrast Uniformity	0.116
Dynamic Range	1.0
Effective Dynamic Range	0.616
Shadow Percentage	17.404
Midtone Percentage	61.515
Highlight Percentage	21.081
Shadow Clipping	0.005
Highlight Clipping	0.013
Tonal Balance	0.218
Fine Contrast	0.025
Medium Contrast	0.062
Coarse Contrast	0.092
Multiscale Contrast Ratio	0.271
Edge Contrast	0.369
Contrast Clustering	0.211

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.663
Color Clustering	0.457
Color Transition Smoothness	0.054
Transition Uniformity	0.0
Sharp Transition Ratio	0.1
Transition Directionality	0.01
Mean Saturation	0.443
Saturation Variance	0.042
Low Saturation Ratio	0.232
Medium Saturation Ratio	0.676
High Saturation Ratio	0.092
Saturation Clustering	0.997
Hue Concentration	0.382
Complementary Balance	0.094
Analogous Dominance	0.663
Temperature Bias	0.341

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 - Variations 19 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0879.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/11/f-minor-research-on-harmony-variations-19_i2r.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

WHERE THIS WORK LIVES

THEMATIC ELEMENTS

chromesthetic mapping · F minor harmony · synesthetic explorations · acrylic on paper · harmonic color relationships · musical visualization · salmon blue-violet tones · compact format

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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