AQC0593

Nanopublication — Computational Image Analysis - AQC0593

by Arnaud Quercy · F Major - Research on Harmony · 2024

Claim 1: Computational Image Analysis - AQC0593

> Analysis record [3]: F Major [1] - Research on Harmony (AQC0593) [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]: 2496x3744 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		512C45	32.6	red-violet	dusty mauve
2		624057	17.6	red-violet	dusty mauve
3		B82F0D	17.1	red-orange	firebrick
4		765C71	9.7	red-violet	dusty mauve
5		927C90	6.5	red-violet	dusty mauve
6		D9CFD6	5.0	red-violet	lightgray
7		B4A3B4	4.8	red-violet	steel gray
8		CC941F	3.6	yellow-orange	goldenrod
9		DFBB5E	2.1	yellow-orange	sandybrown
10		2D1011	1.1	red-orange	very dark red
11		C9BB85	0.3	yellow	tan [Accent]
12		AA7733	0.3	orange	burnt sienna [Accent]
13		F9F9E8	0.3	yellow-green	white [Accent]

Color Families:

Family	%
red-violet	76.1
red-orange	18.2
yellow-orange	5.7
yellow	0.3
orange	0.3
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
C9BB85	yellow	tan	29.2
AA7733	orange	burnt sienna	45.9
F9F9E8	yellow-green	white	8.5

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.179
Mean Local Roughness	0.046
Roughness Uniformity	0.051
Edge Density	0.153
Mean Gradient Magnitude	0.345
Gradient Variance	0.224
Gradient Smoothness	0.0
Directional Coherence	0.038
Pattern Complexity	0.126
Pattern Repetition	1.0
Detail Frequency Ratio	0.683
Spatial Variation	0.089
Texture Consistency	0.522

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.369
Brightness Variance	0.179
Brightness Uniformity	0.515
Brightness Skewness	1.337
Brightness Entropy	6.958
Rms Contrast	0.179
Michelson Contrast	1.0
Weber Contrast	0.671
Mean Local Contrast	0.048
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.565
Shadow Percentage	58.294
Midtone Percentage	31.684
Highlight Percentage	10.021
Shadow Clipping	0.002
Highlight Clipping	0.014
Tonal Balance	0.0
Fine Contrast	0.028
Medium Contrast	0.06
Coarse Contrast	0.079
Multiscale Contrast Ratio	0.356
Edge Contrast	0.345
Contrast Clustering	0.478

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.766
Color Clustering	0.339

Metric	Value
Color Transition Smoothness	0.103
Transition Uniformity	0.0
Sharp Transition Ratio	0.1
Transition Directionality	0.044
Mean Saturation	0.461
Saturation Variance	0.075
Low Saturation Ratio	0.3
Medium Saturation Ratio	0.486
High Saturation Ratio	0.213
Saturation Clustering	0.998
Hue Concentration	0.871
Complementary Balance	0.0
Analogous Dominance	0.915
Temperature Bias	0.963

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 Major - Research on Harmony — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0593.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/f-major-research-on-harmony_6mu.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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