AQC0827

Nanopublication — Computational Image Analysis - AQC0827

by Arnaud Quercy · F Major - Research on Harmony - Variation 6 · 2025

Claim 1: Computational Image Analysis - AQC0827

> Analysis record [3]: F Major [1] - Research on Harmony - Variation 6 (AQC0827) [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]: 2256x3008 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		DFC69E	20.8	yellow-orange	burlywood
2		D4B587	20.7	yellow-orange	tan
3		C49F71	11.9	orange	ochre
4		EAD8B9	10.9	yellow-orange	wheat
5		998C81	9.5	orange	gray
6		82736F	9.5	red-orange	grey
7		B0A79C	6.2	yellow-orange	steel gray
8		685A59	5.7	red-orange	dimgray
9		BC7848	3.0	orange	peru
10		342C2D	1.9	gray	very dark gray
11		9284B1	0.3	violet	dusty mauve [Accent]
12		BAC5CF	0.3	blue	silver [Accent]
13		B2BDCA	0.3	blue-violet	silver [Accent]
14		4B3856	0.3	red-violet	dusty mauve [Accent]

Color Families:

Family	%
yellow-orange	58.5
orange	24.5
red-orange	15.1
gray	1.9
violet	0.3
blue	0.3
blue-violet	0.3
red-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
9284B1	violet	dusty mauve	26.6
BAC5CF	blue	silver	6.3
B2BDCA	blue-violet	silver	8.1
4B3856	red-violet	dusty mauve	21.2

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.155
Mean Local Roughness	0.028
Roughness Uniformity	0.016
Edge Density	0.201
Mean Gradient Magnitude	0.255
Gradient Variance	0.047
Gradient Smoothness	0.147
Directional Coherence	0.009
Pattern Complexity	0.12
Pattern Repetition	1.0
Detail Frequency Ratio	0.612
Spatial Variation	0.085
Texture Consistency	0.676

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.664
Brightness Variance	0.155
Brightness Uniformity	0.767
Brightness Skewness	-0.934
Brightness Entropy	7.168
Rms Contrast	0.155
Michelson Contrast	1.0
Weber Contrast	0.472
Mean Local Contrast	0.032
Contrast Uniformity	0.46
Dynamic Range	1.0
Effective Dynamic Range	0.478
Shadow Percentage	3.054
Midtone Percentage	37.589
Highlight Percentage	59.357
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.016
Medium Contrast	0.039
Coarse Contrast	0.064
Multiscale Contrast Ratio	0.245
Edge Contrast	0.255
Contrast Clustering	0.324

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.698
Color Clustering	0.693
Color Transition Smoothness	0.369
Transition Uniformity	0.699
Sharp Transition Ratio	0.1
Transition Directionality	0.007
Mean Saturation	0.287
Saturation Variance	0.017
Low Saturation Ratio	0.511
Medium Saturation Ratio	0.482
High Saturation Ratio	0.007
Saturation Clustering	1.0
Hue Concentration	0.948
Complementary Balance	0.002
Analogous Dominance	0.969
Temperature Bias	0.979

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 Major - Research on Harmony - Variation 6 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0827.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/01/f-major-research-on-harmony-variation-6_95u.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)

a23cdfacd3bee9961ece90710a25b570438e-ab1030ca0a6f8af72d4e98a0f53d

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