AQC0692

Nanopublication — Computational Image Analysis - AQC0692

by Arnaud Quercy · B Major - Research on Harmony - Variation 2 · 2024

Claim 1: Computational Image Analysis - AQC0692

> Analysis record [3]: B Major [1] - Research on Harmony - Variation 2 (AQC0692) [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]: 2043x2043 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		55573F	17.4	yellow	dark brown
2		DAC496	15.1	yellow-orange	burlywood
3		37342A	13.5	yellow	darkslategray
4		6B6865	13.0	gray	dimgray
5		827978	8.8	gray	gray
6		D8C94A	8.3	yellow	ochre
7		CBB37E	7.9	yellow-orange	tan
8		9194A2	6.1	blue-violet	lightslategray
9		777934	5.6	yellow	olivedrab
10		B19E48	4.4	yellow-orange	peru
11		3C2602	0.3	orange	very dark orange [Accent]
12		07150E	0.3	yellow-green	black [Accent]
13		AC8883	0.3	red-orange	rosybrown [Accent]

Color Families:

Family	%
yellow	44.7
yellow-orange	27.4
gray	21.8
blue-violet	6.1
orange	0.3
yellow-green	0.3
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
3C2602	orange	very dark orange	25.0
07150E	yellow-green	black	6.3
AC8883	red-orange	rosybrown	15.3

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.2
Mean Local Roughness	0.015
Roughness Uniformity	0.025
Edge Density	0.051
Mean Gradient Magnitude	0.108
Gradient Variance	0.051
Gradient Smoothness	0.0
Directional Coherence	0.146
Pattern Complexity	0.114
Pattern Repetition	1.0
Detail Frequency Ratio	0.654
Spatial Variation	0.132
Texture Consistency	0.638

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.504
Brightness Variance	0.2
Brightness Uniformity	0.602
Brightness Skewness	0.059
Brightness Entropy	7.221
Rms Contrast	0.2
Michelson Contrast	1.0
Weber Contrast	0.716
Mean Local Contrast	0.015
Contrast Uniformity	0.0
Dynamic Range	0.996
Effective Dynamic Range	0.604
Shadow Percentage	22.247
Midtone Percentage	46.189
Highlight Percentage	31.564
Shadow Clipping	0.002
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.02
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.108
Contrast Clustering	0.362

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.765
Color Clustering	0.619

Metric	Value
Color Transition Smoothness	0.716
Transition Uniformity	0.66
Sharp Transition Ratio	0.1
Transition Directionality	0.157
Mean Saturation	0.311
Saturation Variance	0.033
Low Saturation Ratio	0.482
Medium Saturation Ratio	0.491
High Saturation Ratio	0.027
Saturation Clustering	0.999
Hue Concentration	0.923
Complementary Balance	0.007
Analogous Dominance	0.964
Temperature Bias	0.716

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). B Major - Research on Harmony - Variation 2 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0692.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/b-major-research-on-harmony-variation-2_7pc.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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