AQC0661

Nanopublication — Computational Image Analysis - AQC0661

by Arnaud Quercy · Ab Major - Research on Harmony - Variation 6 · 2024

Claim 1: Computational Image Analysis - AQC0661

> The artwork Ab Major [1] - Research on Harmony - Variation 6 (AQC0661) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. 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]: 1919x2560 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		394B7F	16.1	violet	dusty mauve
2		5E6277	13.3	blue-violet	grayish purple
3		EC986D	12.1	orange	darksalmon
4		1F1625	12.0	violet	very dark gray
5		3B3634	12.0	gray	darkslategray
6		E74111	11.1	red-orange	orangered
7		C8ACA5	9.4	red-orange	tan
8		7A5B98	9.1	violet	dusty mauve
9		72A4C1	2.9	blue	cadetblue
10		92542E	2.0	orange	burnt sienna
11		F2E3BE	0.3	yellow-orange	wheat [Accent]
12		E1D6B4	0.3	yellow	wheat [Accent]
13		573863	0.3	red-violet	dusty mauve [Accent]
14		955A62	0.3	red	dimgray [Accent]

Color Families:

Family	%
violet	37.3
red-orange	20.5
orange	14.1
blue-violet	13.3
gray	12.0
blue	2.9
yellow-orange	0.3
yellow	0.3
red-violet	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
F2E3BE	yellow-orange	wheat	20.0
E1D6B4	yellow	wheat	18.1
573863	red-violet	dusty mauve	29.7
955A62	red	dimgray	25.7

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.195
Mean Local Roughness	0.01
Roughness Uniformity	0.021
Edge Density	0.024
Mean Gradient Magnitude	0.068
Gradient Variance	0.033
Gradient Smoothness	0.0
Directional Coherence	0.312
Pattern Complexity	0.109
Pattern Repetition	1.0
Detail Frequency Ratio	0.645
Spatial Variation	0.098
Texture Consistency	0.706

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.398
Brightness Variance	0.195
Brightness Uniformity	0.511
Brightness Skewness	0.344
Brightness Entropy	7.224
Rms Contrast	0.195
Michelson Contrast	1.0
Weber Contrast	0.817
Mean Local Contrast	0.01
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.616
Shadow Percentage	39.821
Midtone Percentage	44.869
Highlight Percentage	15.311
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.006
Medium Contrast	0.013
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.068

Metric	Value
Contrast Clustering	0.294

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.726
Color Clustering	0.48
Color Transition Smoothness	0.806
Transition Uniformity	0.764
Sharp Transition Ratio	0.1
Transition Directionality	0.301
Mean Saturation	0.45
Saturation Variance	0.056
Low Saturation Ratio	0.28
Medium Saturation Ratio	0.593
High Saturation Ratio	0.127
Saturation Clustering	1.0
Hue Concentration	0.353
Complementary Balance	0.138
Analogous Dominance	0.528
Temperature Bias	0.102

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). Ab Major - Research on Harmony - Variation 6 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0661.html

[2] Quercy, A. (2024). Ab Major - Research on Harmony - Variation 6 - Gallery. https://artquamanima.com/en/artworks/2024/01/ab-major-research-on-harmony-variation-6_7da.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 https://multimodal.institute/en/publications/2025/10/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)

67b108952a0024749514f1ee68b555197ff1176be4dd2572ae8b80c11ab-f511d

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