AQC0632

Nanopublication — Computational Image Analysis - AQC0632

by Arnaud Quercy · Eb minor - Research on Harmony - Variation 4 · 2024

Claim 1: Computational Image Analysis - AQC0632

> The artwork Eb minor - Research [1] on Harmony - Variation 4 (AQC0632) [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]: 2183x3275 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		544F62	18.5	violet	dusty mauve
2		77BD5E	17.2	yellow-green	darkseagreen
3		15130F	11.8	black	black
4		403C4E	11.6	violet	dusty mauve
5		495690	10.1	violet	dusty mauve
6		61A449	8.5	yellow-green	olivedrab
7		706987	6.6	violet	dusty mauve
8		90D576	6.2	yellow-green	lightgreen
9		E0E0D4	5.8	yellow	gainsboro
10		9D9CA2	3.6	gray	steel gray
11		8F5FA4	0.3	red-violet	lightslategray [Accent]

Color Families:

Family	%
violet	46.8
yellow-green	31.9
black	11.8
yellow	5.8
gray	3.6
red-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
8F5FA4	red-violet	lightslategray	43.9

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.219
Mean Local Roughness	0.032
Roughness Uniformity	0.032
Edge Density	0.163
Mean Gradient Magnitude	0.261
Gradient Variance	0.113
Gradient Smoothness	0.0
Directional Coherence	0.011
Pattern Complexity	0.125
Pattern Repetition	1.0
Detail Frequency Ratio	0.637
Spatial Variation	0.136
Texture Consistency	0.703

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.432
Brightness Variance	0.219
Brightness Uniformity	0.492
Brightness Skewness	0.194
Brightness Entropy	7.519
Rms Contrast	0.219
Michelson Contrast	1.0
Weber Contrast	0.836
Mean Local Contrast	0.035
Contrast Uniformity	0.108
Dynamic Range	1.0
Effective Dynamic Range	0.773
Shadow Percentage	37.846
Midtone Percentage	48.849
Highlight Percentage	13.305
Shadow Clipping	0.077
Highlight Clipping	0.032
Tonal Balance	0.138
Fine Contrast	0.018
Medium Contrast	0.045
Coarse Contrast	0.07
Multiscale Contrast Ratio	0.254
Edge Contrast	0.261
Contrast Clustering	0.297

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.726
Color Clustering	0.763
Color Transition Smoothness	0.324
Transition Uniformity	0.259
Sharp Transition Ratio	0.1

Metric	Value
Transition Directionality	0.014
Mean Saturation	0.353
Saturation Variance	0.032
Low Saturation Ratio	0.423
Medium Saturation Ratio	0.563
High Saturation Ratio	0.014
Saturation Clustering	0.997
Hue Concentration	0.23
Complementary Balance	0.066
Analogous Dominance	0.458
Temperature Bias	-0.061

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). Eb minor - Research on Harmony - Variation 4 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0632.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/eb-minor-research-on-harmony-variation-4_720.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)

34b08f6e308f41e794fae1793dcf54696-fec546b64a0cf6ea57a9179a0842026

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