AQC0905

Nanopublication — Computational Image Analysis - AQC0905

by Arnaud Quercy · Eb Major - Research on Harmony - Variations 6 · 2025

Claim 1: Computational Image Analysis - AQC0905

> Analysis record [3]: Eb Major [1] - Research on Harmony - Variations 6 (AQC0905) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2025-12-11.

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]: 1963x1963 pixels. Analysis date: 2025-12-11.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		DABD90	25.7	yellow-orange	burlywood
2		EBCEA1	20.5	yellow-orange	wheat
3		618DD3	9.6	blue-violet	cornflowerblue
4		58544F	9.0	gray	dimgray
5		DCCCDF	8.3	red-violet	thistle
6		BA7E19	7.5	orange	darkgoldenrod
7		CD902C	7.0	yellow-orange	peru
8		8F6F9F	5.7	red-violet	dusty mauve
9		78A0E3	4.8	blue-violet	skyblue
10		221B1E	2.0	gray	very dark gray
11		434362	0.3	violet	dusty mauve [Accent]
12		CBA19B	0.3	red-orange	tan [Accent]
13		A8A36A	0.3	yellow	ochre [Accent]
14		AB9697	0.3	red	rosybrown [Accent]

Color Families:

Family	%
yellow-orange	53.2
blue-violet	14.4
red-violet	14.0
gray	10.9
orange	7.5
violet	0.3
red-orange	0.3
yellow	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
434362	violet	dusty mauve	19.7
CBA19B	red-orange	tan	17.5
A8A36A	yellow	ochre	30.8
AB9697	red	rosybrown	8.2

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.18
Mean Local Roughness	0.033
Roughness Uniformity	0.029
Edge Density	0.191
Mean Gradient Magnitude	0.25
Gradient Variance	0.089
Gradient Smoothness	0.0
Directional Coherence	0.007
Pattern Complexity	0.122
Pattern Repetition	1.0
Detail Frequency Ratio	0.659
Spatial Variation	0.077
Texture Consistency	0.675

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.654
Brightness Variance	0.18
Brightness Uniformity	0.725
Brightness Skewness	-0.874
Brightness Entropy	7.1
Rms Contrast	0.18
Michelson Contrast	1.0
Weber Contrast	0.554
Mean Local Contrast	0.036
Contrast Uniformity	0.171
Dynamic Range	1.0
Effective Dynamic Range	0.537
Shadow Percentage	6.187
Midtone Percentage	38.705
Highlight Percentage	55.108
Shadow Clipping	0.006
Highlight Clipping	0.044
Tonal Balance	0.0
Fine Contrast	0.018
Medium Contrast	0.044
Coarse Contrast	0.054
Multiscale Contrast Ratio	0.325
Edge Contrast	0.25
Contrast Clustering	0.325

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.731
Color Clustering	0.62
Color Transition Smoothness	0.379
Transition Uniformity	0.399
Sharp Transition Ratio	0.1
Transition Directionality	0.007
Mean Saturation	0.392
Saturation Variance	0.051
Low Saturation Ratio	0.32
Medium Saturation Ratio	0.539
High Saturation Ratio	0.14
Saturation Clustering	0.998
Hue Concentration	0.527
Complementary Balance	0.184
Analogous Dominance	0.74
Temperature Bias	0.556

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). Eb Major - Research on Harmony - Variations 6 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0905.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/11/eb-major-research-on-harmony-variations-6_ic5.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)

51ed73fbfd45d7ebe40de28440e11e4af538aa170ea224265cd6d872b-f1765a9

Artist	Arnaud Quercy
Date	2025
Collection	Synesthetic Explorations
Certificate	20251123-0109
Asset code	AQC0905
Version	1
Published	2026-04-09