AQC0539

Nanopublication — Computational Image Analysis - AQC0539

by Arnaud Quercy · Ab Major 9 - Research on Harmony - Variation 7 · 2024

Claim 1: Computational Image Analysis - AQC0539

> Analysis record [3]: Ab Major [1] 9 - Research on Harmony - Variation 7 (AQC0539) [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]: 2132x2843 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		DA626C	21.6	red-orange	indianred
2		B85059	16.7	red-orange	burnt sienna
3		152258	16.2	violet	very dark purple
4		100B1B	10.4	violet	very dark gray
5		E87986	8.8	red-orange	lightcoral
6		0B2976	8.0	violet	indigo
7		3E4462	7.0	violet	dusty mauve
8		68718E	3.9	blue-violet	grayish purple
9		86403B	3.8	red-orange	burnt sienna
10		D9CDCB	3.6	white	lightgray
11		EFE9E1	0.3	yellow-orange	white [Accent]
12		AD6C37	0.3	orange	burnt sienna [Accent]
13		4A3539	0.3	red	darkslategray [Accent]
14		F8F5EB	0.3	yellow	white [Accent]
15		76566C	0.3	red-violet	dusty mauve [Accent]

Color Families:

Family	%
red-orange	50.9
violet	41.6
blue-violet	3.9
white	3.6
yellow-orange	0.3
orange	0.3
red	0.3
yellow	0.3
red-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
EFE9E1	yellow-orange	white	5.1
AD6C37	orange	burnt sienna	45.2
4A3539	red	darkslategray	10.0
F8F5EB	yellow	white	5.1
76566C	red-violet	dusty mauve	18.4

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.208
Mean Local Roughness	0.032
Roughness Uniformity	0.028
Edge Density	0.183
Mean Gradient Magnitude	0.245
Gradient Variance	0.075
Gradient Smoothness	0.0
Directional Coherence	0.025
Pattern Complexity	0.122
Pattern Repetition	1.0
Detail Frequency Ratio	0.668
Spatial Variation	0.136
Texture Consistency	0.557

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.364
Brightness Variance	0.208
Brightness Uniformity	0.428
Brightness Skewness	0.091
Brightness Entropy	7.349
Rms Contrast	0.208
Michelson Contrast	1.0
Weber Contrast	0.841
Mean Local Contrast	0.033
Contrast Uniformity	0.213
Dynamic Range	1.0
Effective Dynamic Range	0.608
Shadow Percentage	42.242
Midtone Percentage	53.182
Highlight Percentage	4.577
Shadow Clipping	0.001
Highlight Clipping	0.006
Tonal Balance	0.049
Fine Contrast	0.017
Medium Contrast	0.041
Coarse Contrast	None
Multiscale Contrast Ratio	1.0

Metric	Value
Edge Contrast	0.245
Contrast Clustering	0.443

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.721
Color Clustering	0.68
Color Transition Smoothness	0.368
Transition Uniformity	0.492
Sharp Transition Ratio	0.1
Transition Directionality	0.028
Mean Saturation	0.577
Saturation Variance	0.039
Low Saturation Ratio	0.082
Medium Saturation Ratio	0.691
High Saturation Ratio	0.227
Saturation Clustering	0.998
Hue Concentration	0.475
Complementary Balance	0.007
Analogous Dominance	0.551
Temperature Bias	0.2

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 9 - Research on Harmony - Variation 7 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0539.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/ab-major-9-research-on-harmony-variation-7_61u.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)

b17f5d4bf2aa8ca09f86ec672b7760d9908493b8157874e685f-d07b44062cde0

Artist	Arnaud Quercy
Date	2024
Collection	Synesthetic Explorations
Certificate	20240228-0035
Asset code	AQC0539
Version	1
Published	2026-03-25

Published by: Art Quam Anima Publishing New York LLC — publishing.artquamanima.com

Date of publication: 2026-03-27

Persistent URI: https://multimodal.institute/en/nanopubs/2026/03/AQC0539-computational-image-analysis-aqc0539.pdf