

Nanopublication — Computational Image Analysis - AQC0752

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

Claim 1: Computational Image Analysis - AQC0752

Analysis record [3]: D Major [1] - Research on Harmony - Variation 7 (AQC0752) [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]: 2916x3888 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color Hex	%	Family	Name
1	CA841A	21.3	orange	darkgoldenrod
2	E4BE82	13.6	yellow-orange	burlywood
3	D4A137	13.6	yellow-orange	goldenrod
4	202221	12.3	gray	very dark gray
5	B6B0A3	12.2	yellow-orange	steel gray
6	363F34	9.6	yellow-green	darkslategray
7	CCC3B7	7.5	yellow-orange	silver
8	719583	4.3	yellow-green	blue gray
9	A69262	3.8	yellow-orange	ochre
10	4D814F	1.8	yellow-green	seagreen
11	270601	0.3	red-orange	very dark red [Accent]

Color Families:

Family	%
yellow-orange	50.7
orange	21.3
yellow-green	15.6
gray	12.3
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
270601	red-orange	very dark red	15.3

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.216
Mean Local Roughness	0.016
Roughness Uniformity	0.014
Edge Density	0.084
Mean Gradient Magnitude	0.152

Metric	Value
Gradient Variance	0.032
Gradient Smoothness	0.0
Directional Coherence	0.011
Pattern Complexity	0.118
Pattern Repetition	1.0
Detail Frequency Ratio	0.599
Spatial Variation	0.139
Texture Consistency	0.489

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.544
Brightness Variance	0.216
Brightness Uniformity	0.603
Brightness Skewness	-0.842
Brightness Entropy	7.238
Rms Contrast	0.216
Michelson Contrast	1.0
Weber Contrast	0.781
Mean Local Contrast	0.019
Contrast Uniformity	0.138
Dynamic Range	1.0
Effective Dynamic Range	0.675
Shadow Percentage	21.719
Midtone Percentage	42.714
Highlight Percentage	35.567
Shadow Clipping	0.003
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.024
Coarse Contrast	0.04
Multiscale Contrast Ratio	0.197
Edge Contrast	0.152
Contrast Clustering	0.511

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.718
Color Clustering	0.64
Color Transition Smoothness	0.617
Transition Uniformity	0.79
Sharp Transition Ratio	0.1
Transition Directionality	0.013
Mean Saturation	0.438
Saturation Variance	0.101

Metric	Value
Low Saturation Ratio	0.416
Medium Saturation Ratio	0.249
High Saturation Ratio	0.335
Saturation Clustering	0.999
Hue Concentration	0.854
Complementary Balance	0.003
Analogous Dominance	0.875
Temperature Bias	0.763

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). D Major - Research on Harmony - Variation 7 — Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0752.html>

- [2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/d-major-research-on-harmony-variation-7_8co.html

- [3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 h <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)

54f25e2ddf79a54647e1ef3a4a0648e419f93bda4185720db-b5ca2e908daac05

Artist Arnaud Quercy

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