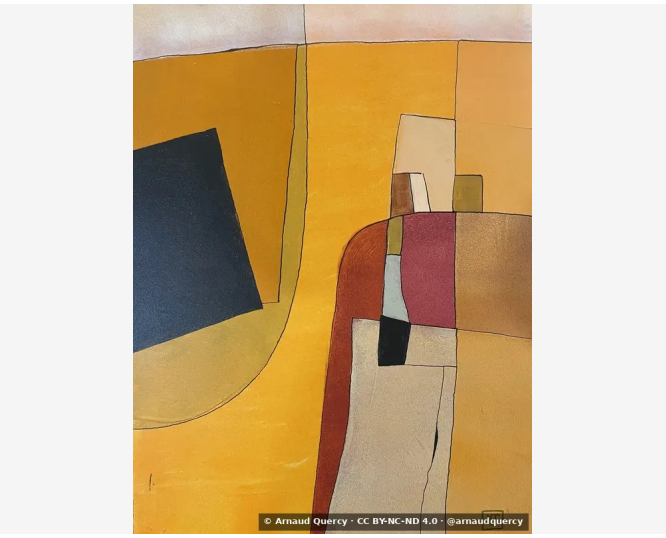
AQC0795 | NAN-COL000159

Nanopublication — Computational Image Analysis - AQC0795

by Arnaud Quercy · D Minor - Research on Harmony - Variation 5 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0795

Analysis record [3]: D Minor [1] - Research on Harmony - Variation 5 (AQC0795) [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]: 2971x3961 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E1A22B	23.0	yellow-orange	goldenrod
2		BB7F1C	11.7	yellow-orange	darkgoldenrod
3		BEA786	11.4	yellow-orange	tan
4		D6A458	11.4	yellow-orange	sandybrown
5		BE9147	10.4	yellow-orange	peru
6		D6C4B3	9.1	orange	silver
7		292B2F	7.4	gray	very dark gray
8		9D6847	5.7	orange	burnt sienna
9		893B2A	5.6	red-orange	russet
10		414E5D	4.4	blue-violet	grayish purple
11		756A35	0.3	yellow	dark brown [Accent]

Color Families:

Family	%
yellow-orange	67.9
orange	14.8
gray	7.4
red-orange	5.6
blue-violet	4.4
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
756A35	yellow	dark brown	31.1

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.172
Mean Local Roughness	0.024
Roughness Uniformity	0.021
Edge Density	0.125
Mean Gradient Magnitude	0.188
Gradient Variance	0.052
Gradient Smoothness	0.0
Directional Coherence	0.009
Pattern Complexity	0.121
Pattern Repetition	1.0
Detail Frequency Ratio	0.645
Spatial Variation	0.106
Texture Consistency	0.686

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.568
Brightness Variance	0.172
Brightness Uniformity	0.698
Brightness Skewness	-1.039
Brightness Entropy	7.131
Rms Contrast	0.172
Michelson Contrast	1.0
Weber Contrast	0.628
Mean Local Contrast	0.026
Contrast Uniformity	0.135
Dynamic Range	1.0
Effective Dynamic Range	0.588
Shadow Percentage	13.815
Midtone Percentage	55.598
Highlight Percentage	30.587
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.013
Medium Contrast	0.032
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.188
Contrast Clustering	0.314

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.745
Color Clustering	0.54
Color Transition Smoothness	0.522
Transition Uniformity	0.639
Sharp Transition Ratio	0.1
Transition Directionality	0.012
Mean Saturation	0.572
Saturation Variance	0.062
Low Saturation Ratio	0.217
Medium Saturation Ratio	0.38
High Saturation Ratio	0.402
Saturation Clustering	0.999
Hue Concentration	0.809
Complementary Balance	0.089
Analogous Dominance	0.91
Temperature Bias	0.821

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 Minor - Research on Harmony - Variation 5 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0795.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/d-minor-research-on-harmony-variation-5_8te.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

WHERE THIS WORK LIVES

THEMATIC ELEMENTS

chromesthetic mapping · D minor triad · synesthetic translation · yellow-orange harmonies · musical color conversion · acrylic wood panel · compact vertical format · harmonic visualization

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

CHECKSUM (SHA-256)

931648f78b15d2909be7c23590ce6d3e23d0200920c047bfe7b400c4f7fe362c

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