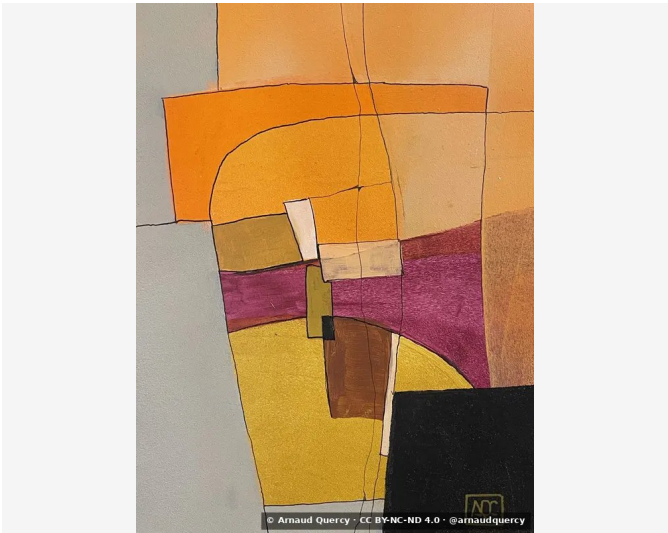


Nanopublication – Computational Image Analysis – AQC0755

by Arnaud Quercy · D Minor – Research on Harmony – Variation 2 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0755

Computational image analysis of artwork D Minor – Research on Harmony – Variation 2 (AQC0755) ^[1] by Arnaud Quercy ^[2], performed according to IDS-CMP-2025 ^[3], using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 2025-10-03.

CONTEXT

Analysis performed according to IDS-CMP-2025 ^[3] includes four metric categories: (a) Color distribution via k-means (10 colors), (b) Texture analysis using Haralick features, (c) Brightness and contrast measurements, (d) Spatial pattern characterization. Source image: 2968x3958 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		ADA69C	17.1	yellow-orange	steel gray
2		DC9B49	16.2	orange	peru
3		E3861B	13.5	orange	goldenrod
4		DBA56C	11.5	orange	darksalmon
5		1E1918	11.2	gray	black
6		7B3933	7.3	red-orange	russet
7		C3942A	6.9	yellow-orange	darkgoldenrod
8		C4B9AD	6.0	yellow-orange	silver
9		AF7742	5.6	orange	burnt sienna
10		9F495F	4.6	red	indianred
11		5D5834	0.3	yellow	dark brown [Accent]

Color Families:

Family	%
orange	46.8
yellow-orange	30.0
gray	11.2
red-orange	7.3
red	4.6
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
5D5834	yellow	dark brown	22.4

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.194
Mean Local Roughness	0.017
Roughness Uniformity	0.015
Edge Density	0.081
Mean Gradient Magnitude	0.165
Gradient Variance	0.042
Gradient Smoothness	0.0
Directional Coherence	0.009
Pattern Complexity	0.12
Pattern Repetition	1.0
Detail Frequency Ratio	0.593
Spatial Variation	0.146
Texture Consistency	0.535

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.542
Brightness Variance	0.194
Brightness Uniformity	0.643
Brightness Skewness	-1.289
Brightness Entropy	6.857
Rms Contrast	0.194
Michelson Contrast	1.0
Weber Contrast	0.799
Mean Local Contrast	0.021
Contrast Uniformity	0.092
Dynamic Range	1.0
Effective Dynamic Range	0.627
Shadow Percentage	17.097
Midtone Percentage	55.762
Highlight Percentage	27.14
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.026
Coarse Contrast	0.044
Multiscale Contrast Ratio	0.189
Edge Contrast	0.165
Contrast Clustering	0.465

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.767
Color Clustering	0.459
Color Transition Smoothness	0.584
Transition Uniformity	0.72
Sharp Transition Ratio	0.1
Transition Directionality	0.01
Mean Saturation	0.485
Saturation Variance	0.096
Low Saturation Ratio	0.324
Medium Saturation Ratio	0.396
High Saturation Ratio	0.28
Saturation Clustering	0.999
Hue Concentration	0.96
Complementary Balance	0.0
Analogous Dominance	0.993
Temperature Bias	0.999

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 Ideamorphic Studies' computational imaging systems.

REFERENCES

[1] Quercy, A. (2024). D Minor - Research on Harmony - Variation 2 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0755.html>

[2] Quercy, A. (2025). ORCID <https://orcid.org/0009-0000-2662-7790>

[3] Quercy, A. (2026). Computational Image Analysis Standard. <https://ideamorphism.org/en/measurements/2025/09/ids-cmp-2025-computational-image-analysis-standard-5dq9.html>

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

a62cf052281136a4d5516c27df52bdc2fd53a847f9a203bc8285c4c426da57cb

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