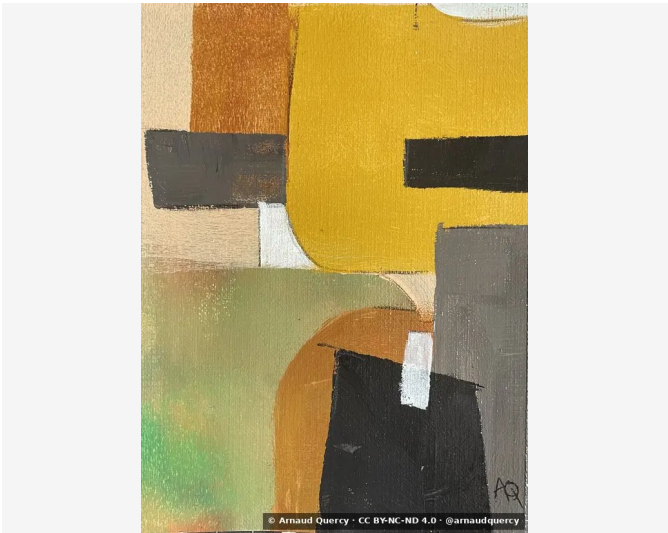


Nanopublication – Computational Image Analysis – AQC0527

by Arnaud Quercy · D Major9 – Research on Harmony – Variation 7 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0527

Computational image analysis [3] of artwork D Major9 – Research [1] on Harmony – Variation 7 (AQC0527) [2] by Arnaud Quercy [2] 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 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]: 2683x3685 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D2A326	15.2	yellow-orange	goldenrod
2		33312D	15.1	gray	darkslategray
3		9A9C64	12.0	yellow	ochre
4		B0732E	11.3	orange	burnt sienna
5		E3B53B	10.7	yellow-orange	sandybrown
6		B5B077	9.7	yellow	ochre
7		7A7469	9.5	yellow-orange	dimgray
8		E1CAA2	7.6	yellow-orange	burlywood
9		5D554B	6.3	orange	dark brown
10		E5E7DF	2.6	white	white
11		79B672	0.3	yellow-green	darkseagreen [Accent]

Color Families:

Family	%
yellow-orange	43.1
yellow	21.6
orange	17.6
gray	15.1
white	2.6
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
79B672	yellow-green	darkseagreen	43.9

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.195
Mean Local Roughness	0.018
Roughness Uniformity	0.019
Edge Density	0.075
Mean Gradient Magnitude	0.158
Gradient Variance	0.04
Gradient Smoothness	0.0
Directional Coherence	0.005
Pattern Complexity	0.108
Pattern Repetition	1.0
Detail Frequency Ratio	0.623
Spatial Variation	0.13
Texture Consistency	0.547

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.544
Brightness Variance	0.195
Brightness Uniformity	0.641
Brightness Skewness	-0.475
Brightness Entropy	7.359
Rms Contrast	0.195
Michelson Contrast	1.0
Weber Contrast	0.732
Mean Local Contrast	0.02
Contrast Uniformity	0.054
Dynamic Range	1.0
Effective Dynamic Range	0.643
Shadow Percentage	17.205
Midtone Percentage	53.691
Highlight Percentage	29.104
Shadow Clipping	0.001
Highlight Clipping	0.021
Tonal Balance	0.043
Fine Contrast	0.009
Medium Contrast	0.025
Coarse Contrast	0.043
Multiscale Contrast Ratio	0.213
Edge Contrast	0.158
Contrast Clustering	0.453

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.727
Color Clustering	0.646
Color Transition Smoothness	0.601
Transition Uniformity	0.748
Sharp Transition Ratio	0.1
Transition Directionality	0.009
Mean Saturation	0.432
Saturation Variance	0.084
Low Saturation Ratio	0.384
Medium Saturation Ratio	0.299
High Saturation Ratio	0.317
Saturation Clustering	1.0
Hue Concentration	0.97
Complementary Balance	0.0
Analogous Dominance	0.992
Temperature Bias	0.884

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 Major9 - Research on Harmony - Variation 7 - Catalog raisonn  . <https://arnaudquercy.art/en/catalogue-raisonne/AQC0527.html>

[2] Quercy, A. (2024). D Major9 - Research on Harmony - Variation 7 - Gallery. https://artquamanima.com/en/art-works/2024/01/d-major9-research-on-harmony-variation-7_5x6.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)

34900f666f784aa18ced493f8980f8b2b5c4616d11af01ea505a4c7b933c1744

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