AQC0968

Nanopublication — Computational Image Analysis - AQC0968

by Arnaud Quercy · D5 (Power Chord) - Research on harmony - variation 1 · 2026

Claim 1: Computational Image Analysis - AQC0968

> The artwork D5 (Power [1] Chord) - Research on harmony - variation 1 (AQC0968) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-03-05. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

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]: 1753x2630 pixels. Analysis date: 2026-03-05.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D3956C	21.7	orange	darksalmon
2		C3865E	16.2	orange	peru
3		B6B6B2	15.2	gray	silver
4		C3C4C2	15.1	white	lightgray
5		E1A57C	13.3	orange	burlywood
6		64463C	5.2	orange	dark brown
7		8C6858	4.8	orange	dimgray
8		E7C298	4.2	orange	tan
9		2E201C	2.5	red-orange	very dark gray
10		E9E3D2	1.7	yellow	gainsboro
11		A09173	0.3	yellow-orange	gray [Accent]

Color Families:

Family	%
orange	65.5
gray	15.2
white	15.1
red-orange	2.5
yellow	1.7
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
A09173	yellow-orange	gray	18.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.146
Mean Local Roughness	0.023
Roughness Uniformity	0.019
Edge Density	0.135
Mean Gradient Magnitude	0.203
Gradient Variance	0.056
Gradient Smoothness	0.0
Directional Coherence	0.004
Pattern Complexity	0.124
Pattern Repetition	1.0
Detail Frequency Ratio	0.617
Spatial Variation	0.047
Texture Consistency	0.648

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.64
Brightness Variance	0.146
Brightness Uniformity	0.772
Brightness Skewness	-1.589
Brightness Entropy	6.884
Rms Contrast	0.146
Michelson Contrast	1.0
Weber Contrast	0.431
Mean Local Contrast	0.027
Contrast Uniformity	0.188
Dynamic Range	1.0
Effective Dynamic Range	0.494
Shadow Percentage	6.082
Midtone Percentage	42.722
Highlight Percentage	51.196
Shadow Clipping	0.001
Highlight Clipping	0.001
Tonal Balance	0.0
Fine Contrast	0.012
Medium Contrast	0.033
Coarse Contrast	0.051
Multiscale Contrast Ratio	0.236
Edge Contrast	0.203
Contrast Clustering	0.352

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.694
Color Clustering	0.637
Color Transition Smoothness	0.493
Transition Uniformity	0.61
Sharp Transition Ratio	0.1

Metric	Value
Transition Directionality	0.006
Mean Saturation	0.321
Saturation Variance	0.046
Low Saturation Ratio	0.367
Medium Saturation Ratio	0.628
High Saturation Ratio	0.004
Saturation Clustering	0.999
Hue Concentration	0.992
Complementary Balance	0.0
Analogous Dominance	0.998
Temperature Bias	0.998

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 (2026). D5 (Power Chord) - Research on harmony - variation 1 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0968.html

[2] Quercy, A. (2026). D5 (Power Chord) - Research on harmony - variation 1 - Gallery. https://artquamanima.com/en/artworks/2026/03/d5-power-chord-research-on-harmony-variation-1_1yok.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)

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b75d474c459af61e570ec1376301d6de729aeef34af5908458fc09c11781419
5
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Artist	Arnaud Quercy
Date	2026
Collection	Synesthetic Explorations
Certificate	20260305-0020
Asset code	AQC0968
Version	1
Published	2026-03-25