

Nanopublication — Computational Image Analysis - AQC0952

by Arnaud Quercy · A5 (Power Chord) - Research on Harmony · 2026

Claim 1: Computational Image Analysis - AQC0952

The artwork A5 (Power [1] Chord) - Research on Harmony (AQC0952) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-03-04. 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]: 1943x2915 pixels. Analysis date: 2026-03-04.

COLOR ANALYSIS

Rank	Color Hex	%	Family	Name
1	E6BD28	20.8	yellow-orange	goldenrod
2	D1BD9A	15.5	yellow-orange	tan
3	9A9E9F	13.4	gray	steel gray
4	ACB0B1	11.6	gray	steel gray
5	BD911E	11.2	yellow-orange	darkgoldenrod
6	E0B56C	7.4	yellow-orange	burlywood
7	DCD5BF	7.1	yellow-orange	lightgray
8	CDAB52	5.9	yellow-orange	ochre
9	3C362C	4.0	yellow-orange	darkslategray
10	E07A27	3.2	orange	chocolate
11	FEFBCC	0.3	yellow	lemonchiffon [Accent]
12	BAC96D	0.3	yellow-green	ochre [Accent]

Color Families:

Family	%
yellow-orange	71.8
gray	24.9
orange	3.2
yellow	0.3
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
FEFBCC	yellow	lemonchiffon	23.8
BAC96D	yellow-green	ochre	47.9

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.125

Metric	Value
Mean Local Roughness	0.023
Roughness Uniformity	0.018
Edge Density	0.105
Mean Gradient Magnitude	0.194
Gradient Variance	0.05
Gradient Smoothness	0.0
Directional Coherence	0.003
Pattern Complexity	0.121
Pattern Repetition	1.0
Detail Frequency Ratio	0.635
Spatial Variation	0.061
Texture Consistency	0.621

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.673
Brightness Variance	0.125
Brightness Uniformity	0.815
Brightness Skewness	-1.932
Brightness Entropy	6.65
Rms Contrast	0.125
Michelson Contrast	0.962
Weber Contrast	0.294
Mean Local Contrast	0.027
Contrast Uniformity	0.208
Dynamic Range	0.98
Effective Dynamic Range	0.322
Shadow Percentage	3.699
Midtone Percentage	33.824
Highlight Percentage	62.477
Shadow Clipping	0.0
Highlight Clipping	0.001
Tonal Balance	0.0
Fine Contrast	0.012
Medium Contrast	0.032
Coarse Contrast	0.045
Multiscale Contrast Ratio	0.262
Edge Contrast	0.194
Contrast Clustering	0.379

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.687
Color Clustering	0.437
Color Transition Smoothness	0.522
Transition Uniformity	0.669

Metric	Value
Sharp Transition Ratio	0.1
Transition Directionality	0.002
Mean Saturation	0.438
Saturation Variance	0.113
Low Saturation Ratio	0.472
Medium Saturation Ratio	0.171
High Saturation Ratio	0.357
Saturation Clustering	0.999
Hue Concentration	0.991
Complementary Balance	0.0
Analogous Dominance	1.0
Temperature Bias	0.978

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). A5 (Power Chord) - Research on Harmony — Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0952.html>

[2] Quercy, A. (2026). A5 (Power Chord) - Research on Harmony - Gallery. https://artquamanima.com/en/artworks/2026/03/a5-power-chord-research-on-harmony_1yh4.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 h [tps://multimodal.institute/en/publications/2025/10/mmids-cmp-2025-computational-image-analysis-standard-dg1.html](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)

a0f1a3fde95c68f2d8400bd34ed6294397d4261d4fe-
b1cf9c4c75023114e0a0a

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