

Nanopublication – Computational Image Analysis –
AQC0950

by Arnaud Quercy · D5 (Power Chord) – Research on Harmony · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0950

Analysis record [3]: D5 (Power [1] Chord) - Research on Harmony (AQC0950) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2026-03-04.

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]: 1943x2915 pixels. Analysis date: 2026-03-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		DF9265	21.8	orange	darksalmon
2		DCBB88	13.3	yellow-orange	burlywood
3		9F9D9B	11.4	gray	steel gray
4		EDA17B	11.1	orange	lightsalmon
5		8B8988	10.1	gray	gray
6		E2770D	9.6	orange	chocolate
7		EECD9D	8.9	yellow-orange	wheat
8		1D1916	6.9	gray	black
9		E0D8C4	6.0	yellow	lightgray
10		5A4538	1.0	orange	dark brown
11		A86755	0.3	red-orange	indianred [Accent]

Color Families:

Family	%
orange	43.4
gray	28.4
yellow-orange	22.2
yellow	6.0
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
A86755	red-orange	indianred	31.9

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.179
Mean Local Roughness	0.022
Roughness Uniformity	0.018
Edge Density	0.095
Mean Gradient Magnitude	0.176
Gradient Variance	0.045
Gradient Smoothness	0.0
Directional Coherence	0.004
Pattern Complexity	0.116
Pattern Repetition	1.0
Detail Frequency Ratio	0.636
Spatial Variation	0.129
Texture Consistency	0.589

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.631
Brightness Variance	0.179
Brightness Uniformity	0.717
Brightness Skewness	-1.62
Brightness Entropy	6.939
Rms Contrast	0.179
Michelson Contrast	1.0
Weber Contrast	0.375
Mean Local Contrast	0.025
Contrast Uniformity	0.175
Dynamic Range	1.0
Effective Dynamic Range	0.741
Shadow Percentage	7.645
Midtone Percentage	47.605
Highlight Percentage	44.75
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.03
Coarse Contrast	0.04
Multiscale Contrast Ratio	0.273
Edge Contrast	0.176
Contrast Clustering	0.411

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.776
Color Clustering	0.577
Color Transition Smoothness	0.564
Transition Uniformity	0.695
Sharp Transition Ratio	0.1
Transition Directionality	0.006
Mean Saturation	0.378
Saturation Variance	0.072
Low Saturation Ratio	0.336
Medium Saturation Ratio	0.565
High Saturation Ratio	0.098
Saturation Clustering	1.0
Hue Concentration	0.987
Complementary Balance	0.0
Analogous Dominance	0.999
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 Multimodal Institute's computational imaging systems.

REFERENCES

[1] Arnaud Quercy (2026). D5 (Power Chord) - Research on Harmony – Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0950.html>

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2026/03/d5-power-chord-research-on-harmony_1yg5.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

power chord translation

piano studies

cycle of fifth mapping

synesthetic art

musical visualization

acrylic painting

harmonic color relationships

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

bb9f8429687223d653fcbbffdc5fa1b6dd30fdfa9d447f4bf19e5bc10d691c3d

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