

Nanopublication — Computational Image Analysis - AQC0674

by Arnaud Quercy · Ab+ - Research on Harmony · 2024

Claim 1: Computational Image Analysis - AQC0674

The artwork Ab+ - Research [1] on Harmony (AQC0674) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. 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]: 2243x3365 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color Hex	%	Family	Name
1	 D2A593	21.1	orange	tan
2	 D3B3AB	18.6	red-orange	silver
3	 CF967D	18.0	orange	darksalmon
4	 C38567	11.3	orange	peru
5	 A79995	8.5	orange	rosybrown
6	 D2C5CA	7.4	red	thistle
7	 8C807E	7.3	red-orange	gray
8	 5D6168	2.9	blue-violet	grayish purple
9	 A96F3E	2.7	orange	burnt sienna
10	 3E393E	2.1	gray	dusty mauve
11	 796344	0.3	yellow-orange	dimgray [Accent]
12	 D4E6F4	0.3	blue	white [Accent]

Color Families:

Family	%
orange	61.7
red-orange	25.9
red	7.4
blue-violet	2.9
gray	2.1
yellow-orange	0.3
blue	0.3

Accent Colors:

Hex	Family	Name	Chroma
796344	yellow-orange	dimgray	21.4
D4E6F4	blue	white	9.5

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.112
Mean Local Roughness	0.014
Roughness Uniformity	0.013
Edge Density	0.039
Mean Gradient Magnitude	0.117
Gradient Variance	0.024
Gradient Smoothness	0.0
Directional Coherence	0.015
Pattern Complexity	0.118
Pattern Repetition	1.0
Detail Frequency Ratio	0.611
Spatial Variation	0.061
Texture Consistency	0.524

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.644
Brightness Variance	0.112
Brightness Uniformity	0.827
Brightness Skewness	-1.466
Brightness Entropy	6.652
Rms Contrast	0.112
Michelson Contrast	1.0
Weber Contrast	0.326
Mean Local Contrast	0.015
Contrast Uniformity	0.057
Dynamic Range	1.0
Effective Dynamic Range	0.345
Shadow Percentage	2.606
Midtone Percentage	47.434
Highlight Percentage	49.959
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.007
Medium Contrast	0.019
Coarse Contrast	0.03
Multiscale Contrast Ratio	0.238
Edge Contrast	0.117
Contrast Clustering	0.476

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.732
Color Clustering	0.507

Metric	Value
Color Transition Smoothness	0.7
Transition Uniformity	0.841
Sharp Transition Ratio	0.1
Transition Directionality	0.016
Mean Saturation	0.278
Saturation Variance	0.023
Low Saturation Ratio	0.553
Medium Saturation Ratio	0.439
High Saturation Ratio	0.008
Saturation Clustering	1.0
Hue Concentration	0.948
Complementary Balance	0.023
Analogous Dominance	0.975
Temperature Bias	0.953

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). Ab+ - Research on Harmony — Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0674.html>
- [2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/ab-research-on-harmony_7ic.html
- [3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 h <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)

7938a8ae85e1e1d976ce86322097a53299f30b0f7ca706d5aa6de5f046e6cf6b

Artist Arnaud Quercy

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