

Nanopublication — Computational Image Analysis - AQC0674

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

Claim 1: Computational Image Analysis - AQC0674

Analysis record [3]: Ab+ - Research [1] on Harmony (AQC0674) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 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]: 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

Metric	Value
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
Color Transition Smoothness	0.7
Transition Uniformity	0.841

Metric	Value
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. (2024). Ab+ - Research on Harmony - 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/2025/11/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)

5613d5d8247dde2cf48ad2fca3de0846c1dad92f62451990abb5a9a48e-f94f41

Artist	Arnaud Quercy
Date	2024
Collection	Synesthetic Explorations
Certificate	20240718-0170
Asset code	AQC0674
Version	1
Published	2026-02-03

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Published by: Art Quam Anima Publishing New York LLC — publishing.artquamanima.com

Date of publication: 2026-04-20

Persistent URI: <https://multimodal.institute/en/nanopubs/2026/02/AQC0674-computational-image-analysis-aqc0674.pdf>

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