

Nanopublication — Computational Image Analysis - AQC0505

by Arnaud Quercy · Mixolydian Resonances - Modal Composition No 3 · 2024













Claim 1: Computational Image Analysis - AQC0505

Analysis record [3]: Mixolydian [1] Resonances - Modal Composition No 3 (AQC0505) [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]: 526x701 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color Hex	%	Family	Name
1		DABC95	15.1	yellow-orange tan
2		D0650E	14.8	orange chocolate
3		ACA79F	14.0	yellow-orange steel gray
4		EAC176	12.8	yellow-orange burlywood
5		CD9F70	11.5	orange ochre
6		CECABA	9.7	yellow silver
7		A41B12	8.0	red-orange firebrick
8		181B20	7.7	gray very dark gray
9		857A75	4.0	orange gray
10		49A0C5	2.4	blue steelblue
11		759EA4	0.3	blue-green cadetblue [Accent]
12		E4E5DA	0.3	yellow-green white [Accent]

Color Families:

Family	%
yellow-orange	41.9
orange	30.2
yellow	9.7
red-orange	8.0
gray	7.7
blue	2.4
blue-green	0.3
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
759EA4	blue-green	cadetblue	14.4
E4E5DA	yellow-green	white	5.4

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.21
Mean Local Roughness	0.023
Roughness Uniformity	0.022
Edge Density	0.094
Mean Gradient Magnitude	0.162
Gradient Variance	0.049
Gradient Smoothness	0.0
Directional Coherence	0.028
Pattern Complexity	0.124
Pattern Repetition	1.0
Detail Frequency Ratio	0.611
Spatial Variation	0.149
Texture Consistency	0.566

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.591
Brightness Variance	0.21
Brightness Uniformity	0.644
Brightness Skewness	-1.033
Brightness Entropy	7.3
Rms Contrast	0.21
Michelson Contrast	1.0
Weber Contrast	0.69
Mean Local Contrast	0.022
Contrast Uniformity	0.113
Dynamic Range	1.0
Effective Dynamic Range	0.714
Shadow Percentage	15.332
Midtone Percentage	34.188
Highlight Percentage	50.48
Shadow Clipping	0.004
Highlight Clipping	0.001
Tonal Balance	0.0
Fine Contrast	0.015
Medium Contrast	0.028
Coarse Contrast	0.042
Multiscale Contrast Ratio	0.358
Edge Contrast	0.162
Contrast Clustering	0.434

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.761
Color Clustering	0.525

Metric	Value
Color Transition Smoothness	0.582
Transition Uniformity	0.68
Sharp Transition Ratio	0.1
Transition Directionality	0.027
Mean Saturation	0.451
Saturation Variance	0.092
Low Saturation Ratio	0.344
Medium Saturation Ratio	0.418
High Saturation Ratio	0.238
Saturation Clustering	0.999
Hue Concentration	0.751
Complementary Balance	0.115
Analogous Dominance	0.884
Temperature Bias	0.77

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). Mixolydian Resonances - Modal Composition No 3 — Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0505.html>
- [2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/mixolydian-resonances-modal-composition-no-3_5om.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)

0874d94096faa6e3eb252d-
da14a10526d011743c058281f6d0009f1af2113e5a

Artist	Arnaud Quercy
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