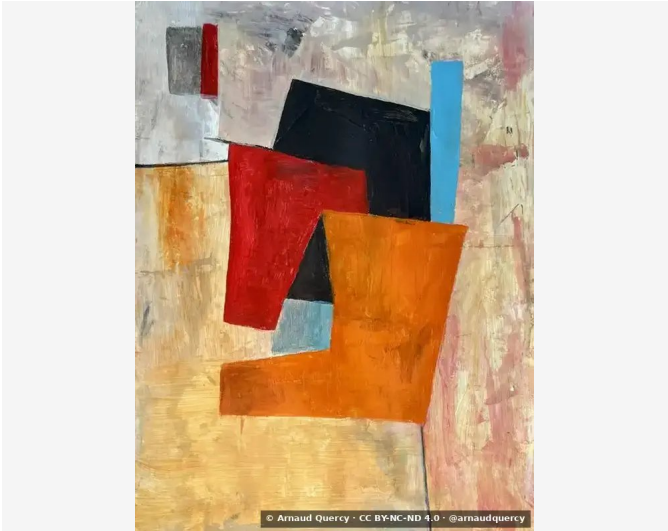


Nanopublication – Computational Image Analysis –
AQC0505

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



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0505

Computational image analysis [3] of artwork Mixolydian [1] Resonances – Modal Composition No 3 (AQC0505) [2] by Arnaud Quercy [2] using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 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
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 <https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html>

WHERE THIS WORK LIVES

THEMATIC ELEMENTS

Mixolydian mode

geometric abstraction

synesthetic art

modal composition

acrylic on paper

orange tones

musical visualization

contemporary abstraction

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

d8214a84e527aa3ae80051c27c5db85ce1631b5d8fb4ac21e4ef8a7eed5321da

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Collection	Synesthetic Explorations
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Version	1
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