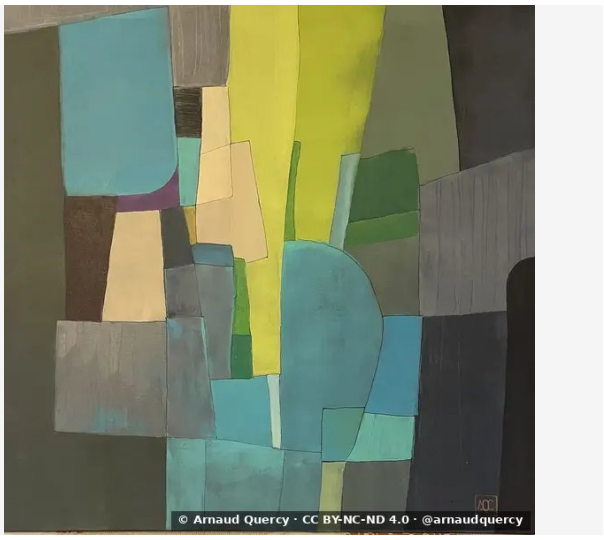
AQC0705 | NAN-COL000247

Nanopublication — Computational Image Analysis - AQC0705

by Arnaud Quercy · F# Major - Research on Harmony - Variation 2 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0705

Analysis record [3]: F# Major [1] - Research on Harmony - Variation 2 (AQC0705) [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]: 2328x2328 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		555542	20.4	yellow	dark brown
2		696B59	15.3	yellow-green	dimgray
3		3A3835	12.2	gray	darkslategray
4		6B9C95	12.1	green	cadetblue
5		598482	11.6	green	blue gray
6		85826F	8.0	yellow	gray
7		CCC450	5.8	yellow	ochre
8		D7BD85	5.6	yellow-orange	burlywood
9		ADAC35	5.3	yellow	yellowgreen
10		272521	3.8	gray	very dark gray
11		7D522E	0.3	orange	russet [Accent]
12		27575C	0.3	blue-green	darkslategray [Accent]

Color Families:

Family	%
yellow	39.4
green	23.7
gray	16.1
yellow-green	15.3
yellow-orange	5.6
orange	0.3
blue-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
7D522E	orange	russet	31.3
27575C	blue-green	darkslategray	17.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.163
Mean Local Roughness	0.009
Roughness Uniformity	0.019
Edge Density	0.013
Mean Gradient Magnitude	0.068
Gradient Variance	0.029
Gradient Smoothness	0.0
Directional Coherence	0.124
Pattern Complexity	0.115
Pattern Repetition	1.0
Detail Frequency Ratio	0.649
Spatial Variation	0.116
Texture Consistency	0.742

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.441
Brightness Variance	0.163
Brightness Uniformity	0.63
Brightness Skewness	0.246
Brightness Entropy	7.195
Rms Contrast	0.163
Michelson Contrast	1.0
Weber Contrast	0.691
Mean Local Contrast	0.01
Contrast Uniformity	0.0
Dynamic Range	0.984
Effective Dynamic Range	0.545
Shadow Percentage	26.875
Midtone Percentage	61.396
Highlight Percentage	11.73
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.005
Medium Contrast	0.012
Coarse Contrast	0.018
Multiscale Contrast Ratio	0.278
Edge Contrast	0.068
Contrast Clustering	0.258

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.73
Color Clustering	0.609
Color Transition Smoothness	0.812
Transition Uniformity	0.795
Sharp Transition Ratio	0.1
Transition Directionality	0.135
Mean Saturation	0.286
Saturation Variance	0.032
Low Saturation Ratio	0.578
Medium Saturation Ratio	0.394
High Saturation Ratio	0.028
Saturation Clustering	0.999
Hue Concentration	0.524
Complementary Balance	0.008
Analogous Dominance	0.616
Temperature Bias	0.066

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). F# Major - Research on Harmony - Variation 2 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0705.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/f-major-research-on-harmony-variation-2_7ue.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 · F# major harmony · synesthetic explorations · acrylic geometric forms · musical color translation · harmonic visualization · contemporary abstraction · systematic color study

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

90de3d8b4283538256771cc2793cf40b6be314d9d16347abf41ee0043b2ea79b

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