Nanopublication — Computational Image Analysis - AQC0790

by Arnaud Quercy · Fsharp Octaves - Reflexions 24 · 2024

Claim 1: Computational Image Analysis - AQC0790

> Analysis record [3]: Fsharp [1] Octaves - Reflexions 24 (AQC0790) [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]: 2230x3345 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		2A3034	18.8	gray	darkslategray
2		D1CDC0	15.8	yellow	lightgray
3		C2BDAF	14.3	yellow	silver
4		384644	11.0	green	darkslategrey
5		929FA1	10.8	blue-green	steel gray
6		236C56	9.7	green	seagreen
7		338B62	6.6	yellow-green	mediumseagreen
8		1B1E24	6.6	blue-violet	very dark gray
9		73C599	5.2	yellow-green	mediumaquamarine
10		676F62	1.2	yellow-green	dimgray
11		958653	0.3	yellow-orange	gray [Accent]

Color Families:

Family	%
yellow	30.1
green	20.7
gray	18.8
yellow-green	13.1
blue-green	10.8
blue-violet	6.6
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
958653	yellow-orange	gray	29.1

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.252
Mean Local Roughness	0.009
Roughness Uniformity	0.012
Edge Density	0.021
Mean Gradient Magnitude	0.098
Gradient Variance	0.031
Gradient Smoothness	0.0
Directional Coherence	0.034
Pattern Complexity	0.111
Pattern Repetition	1.0
Detail Frequency Ratio	0.567
Spatial Variation	0.195
Texture Consistency	0.371

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.47
Brightness Variance	0.252
Brightness Uniformity	0.464
Brightness Skewness	0.059
Brightness Entropy	7.31
Rms Contrast	0.252
Michelson Contrast	1.0
Weber Contrast	0.792
Mean Local Contrast	0.012
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.671
Shadow Percentage	41.119
Midtone Percentage	26.025
Highlight Percentage	32.856
Shadow Clipping	0.021
Highlight Clipping	0.001
Tonal Balance	0.024
Fine Contrast	0.004
Medium Contrast	0.014
Coarse Contrast	0.03
Multiscale Contrast Ratio	0.148
Edge Contrast	0.098
Contrast Clustering	0.629

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.77
Color Clustering	0.87
Color Transition Smoothness	0.735
Transition Uniformity	0.779
Sharp Transition Ratio	0.1
Transition Directionality	0.048

Metric	Value
Mean Saturation	0.254
Saturation Variance	0.045
Low Saturation Ratio	0.728
Medium Saturation Ratio	0.214
High Saturation Ratio	0.058
Saturation Clustering	0.999
Hue Concentration	0.852
Complementary Balance	0.011
Analogous Dominance	0.821
Temperature Bias	-0.945

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). Fsharp Octaves - Reflexions 24 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0790.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/fsharp-octaves-reflexions-24_8rg.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 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)

`f68db06c8606133e944a9227127bf7b18f90a3a01f890606af8cd5b7b4c-c944b`

Artist	Arnaud Quercy
Date	2024
Collection	Synesthetic Explorations
Certificate	20241201-0287
Asset code	AQC0790
Version	1
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