

Nanopublication – Computational Image Analysis – AQC0862

by Arnaud Queracy · F# Major – Research on Harmony – Variation 6 · 2025



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0862

Analysis record [3]: F# Major [1] - Research on Harmony - Variation 6 (AQC0862) [2] by Arnaud Queracy [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]: 2476x3302 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D6D2BF	25.2	yellow	lightgray
2		D9DBD9	14.4	white	gainsboro
3		C0C9CE	13.3	white	silver
4		B9BEA5	8.6	yellow-green	steel gray
5		6E9DAC	7.9	blue	cadetblue
6		4B8490	7.8	blue-green	steelblue
7		A1B2BE	7.0	blue	steel gray
8		8E6EA1	6.2	red-violet	dusty mauve
9		693764	5.9	red-violet	dusty mauve
10		282A31	3.8	blue-violet	very dark gray
11		CE9C89	0.3	orange	rosybrown [Accent]
12		BD877A	0.3	red-orange	rosybrown [Accent]
13		236C69	0.3	green	seagreen [Accent]
14		666285	0.3	violet	dusty mauve [Accent]

Color Families:

Family	%
white	27.6
yellow	25.2
blue	14.9
red-violet	12.0
yellow-green	8.6
blue-green	7.8
blue-violet	3.8
orange	0.3
red-orange	0.3
green	0.3
violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
CE9C89	orange	rosybrown	23.3
BD877A	red-orange	rosybrown	24.2
236C69	green	seagreen	23.5
666285	violet	dusty mauve	21.5

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.196
Mean Local Roughness	0.013
Roughness Uniformity	0.016
Edge Density	0.051
Mean Gradient Magnitude	0.119
Gradient Variance	0.03
Gradient Smoothness	0.0
Directional Coherence	0.027
Pattern Complexity	0.117
Pattern Repetition	1.0
Detail Frequency Ratio	0.599
Spatial Variation	0.114
Texture Consistency	0.585

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.68
Brightness Variance	0.196
Brightness Uniformity	0.712
Brightness Skewness	-1.155
Brightness Entropy	7.055
Rms Contrast	0.196
Michelson Contrast	1.0
Weber Contrast	0.55
Mean Local Contrast	0.015
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.612
Shadow Percentage	8.189
Midtone Percentage	25.827
Highlight Percentage	65.984
Shadow Clipping	0.002
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.007
Medium Contrast	0.018
Coarse Contrast	0.032
Multiscale Contrast Ratio	0.218
Edge Contrast	0.119
Contrast Clustering	0.415

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.742
Color Clustering	0.783
Color Transition Smoothness	0.697
Transition Uniformity	0.794
Sharp Transition Ratio	0.1
Transition Directionality	0.032
Mean Saturation	0.2
Saturation Variance	0.028
Low Saturation Ratio	0.737
Medium Saturation Ratio	0.26
High Saturation Ratio	0.003
Saturation Clustering	1.0
Hue Concentration	0.537
Complementary Balance	0.09
Analogous Dominance	0.551
Temperature Bias	-0.4

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 (2025). F# Major - Research on Harmony - Variation 6 - Catalog raisonn  . <https://arnaudquercy.art/en/catalogue-raisonne/AQC0862.html>

[2] Quercy, A. (2025). F# Major - Research on Harmony - Variation 6 - Gallery. https://artquamanima.com/en/art-works/2025/01/f-major-research-on-harmony-variation-6_9jg.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>

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

f9a8cd232503c20edf692bcafd62b08d525604f722631791576ebca612c234f0

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Artist	Arnaud Quercy
Date	2025
Collection	Harmonic Crossing
Certificate	20250125-0058
Asset code	AQC0862
Identifier	NAN-COL000007
Version	1
Published	2025-12-01

ISSN: applied for – U.S. ISSN Center, Library of Congress

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Published by Art Quam Anima Publishing New York,
an assumed name of AQA Publishing LLC

c/o Northwest Registered Agent, 418 Broadway Ste N
Albany, NY 12207, USA
+1 917-764-5470

NY DOS ID 7624376 · Assumed Name ID 7658709

publishing.artquamanima.com

Last updated: 2026-08-18

Persistent URI: <https://ideamorphism.org/en/nanopubs/2025/10/AQC0862-computational-image-analysis-aqc0862.pdf>