AQC0851 | NAN-COL000104

Nanopublication — Computational Image Analysis - AQC0851

by Arnaud Quercy · C Major - Research on Harmony - Variation 12 · 2025

CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0851

Analysis record: C Major - Research on Harmony - Variation 12 (AQC0851) [1] by Arnaud Quercy [2], per IDS-CMP-2025 [3]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2025-10-03.

CONTEXT

Analysis performed according to IDS-CMP-2025 [3] includes four metric categories: (a) Color distribution via k-means (10 colors), (b) Texture analysis using Haralick features, (c) Brightness and contrast measurements, (d) Spatial pattern characterization. Source image: 2331x3108 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D9D6C8	14.6	yellow	lightgray
2		C74B25	14.2	red-orange	chocolate
3		CAB8CE	12.8	red-violet	thistle
4		DDD7DE	11.9	white	gainsboro
5		DC6646	10.7	red-orange	indianred
6		E190A8	9.0	red	palevioletred
7		E7A6C1	8.9	red	lightpink
8		BE9AB1	7.8	red-violet	steel gray
9		D5737E	6.2	red-orange	lightcoral
10		39252D	4.0	red	very dark gray
11		4B4455	0.3	violet	dusty mauve [Accent]

Color Families:

Family	%
red-orange	31.1
red	22.0
red-violet	20.5
yellow	14.6
white	11.9
violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
4B4455	violet	dusty mauve	11.4

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.178
Mean Local Roughness	0.011
Roughness Uniformity	0.014
Edge Density	0.029
Mean Gradient Magnitude	0.1
Gradient Variance	0.024
Gradient Smoothness	0.0
Directional Coherence	0.062
Pattern Complexity	0.119
Pattern Repetition	1.0
Detail Frequency Ratio	0.604
Spatial Variation	0.129
Texture Consistency	0.516

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.657
Brightness Variance	0.178
Brightness Uniformity	0.729
Brightness Skewness	-0.888
Brightness Entropy	7.147
Rms Contrast	0.178
Michelson Contrast	1.0
Weber Contrast	0.512
Mean Local Contrast	0.013
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.49
Shadow Percentage	3.916
Midtone Percentage	38.163
Highlight Percentage	57.921
Shadow Clipping	0.003
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.006
Medium Contrast	0.016
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.1
Contrast Clustering	0.484

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.743
Color Clustering	0.521
Color Transition Smoothness	0.747
Transition Uniformity	0.833
Sharp Transition Ratio	0.1
Transition Directionality	0.069
Mean Saturation	0.336
Saturation Variance	0.077
Low Saturation Ratio	0.544
Medium Saturation Ratio	0.272
High Saturation Ratio	0.185
Saturation Clustering	1.0
Hue Concentration	0.944
Complementary Balance	0.0
Analogous Dominance	0.983
Temperature Bias	0.988

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 Ideamorphic Studies' computational imaging systems.

REFERENCES

[1] Quercy, A. (2025). C Major - Research on Harmony - Variation 12 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0851.html

[2] Quercy, A. (2025). ORCID https://orcid.org/0009-0000-2662-7790

[3] Quercy, A. (2026). Computational Image Analysis Standard. https://ideamorphism.org/en/measurements/2025/09/ids-cmp-2025-computational-image-analysis-standard-5dq9.html

EPISTEMIC PROFILE

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

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