AQC0615 | NAN-COL000331

Nanopublication — Computational Image Analysis - AQC0615

by Arnaud Quercy · B minor - Research on Harmony · 2024

CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0615

Analysis record [3]: B minor - Research [1] on Harmony (AQC0615) [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]: 2632x3510 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		33AB53	15.6	yellow-green	mediumseagreen
2		90CD44	14.9	yellow-green	yellowgreen
3		1E9642	14.3	yellow-green	seagreen
4		ABDE5C	12.5	yellow-green	ochre
5		73BC2A	9.1	yellow-green	olivedrab
6		50C167	9.0	yellow-green	limegreen
7		B5570E	7.7	orange	chocolate
8		1A2D1E	7.5	yellow-green	very dark green
9		C8F081	5.3	yellow-green	khaki
10		74C2A8	4.2	green	mediumaquamarine
11		837E52	0.3	yellow	dimgray [Accent]
12		5D4D32	0.3	yellow-orange	dark brown [Accent]

Color Families:

Family	%
yellow-green	88.1
orange	7.7
green	4.2
yellow	0.3
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
837E52	yellow	dimgray	25.5
5D4D32	yellow-orange	dark brown	19.2

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.178
Mean Local Roughness	0.028
Roughness Uniformity	0.021
Edge Density	0.18
Mean Gradient Magnitude	0.225
Gradient Variance	0.054
Gradient Smoothness	0.0
Directional Coherence	0.021
Pattern Complexity	0.119
Pattern Repetition	1.0
Detail Frequency Ratio	0.631
Spatial Variation	0.112
Texture Consistency	0.578

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.552
Brightness Variance	0.178
Brightness Uniformity	0.678
Brightness Skewness	-0.52
Brightness Entropy	7.346
Rms Contrast	0.178
Michelson Contrast	1.0
Weber Contrast	0.523
Mean Local Contrast	0.03
Contrast Uniformity	0.305
Dynamic Range	1.0
Effective Dynamic Range	0.651
Shadow Percentage	8.014
Midtone Percentage	63.165
Highlight Percentage	28.821
Shadow Clipping	0.007
Highlight Clipping	0.0
Tonal Balance	0.091
Fine Contrast	0.016
Medium Contrast	0.037
Coarse Contrast	0.056
Multiscale Contrast Ratio	0.284
Edge Contrast	0.225
Contrast Clustering	0.422

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.745
Color Clustering	0.365
Color Transition Smoothness	0.458
Transition Uniformity	0.655
Sharp Transition Ratio	0.1
Transition Directionality	0.026
Mean Saturation	0.668
Saturation Variance	0.024
Low Saturation Ratio	0.014
Medium Saturation Ratio	0.55
High Saturation Ratio	0.437
Saturation Clustering	0.998
Hue Concentration	0.82
Complementary Balance	0.001
Analogous Dominance	0.9
Temperature Bias	-0.405

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). B minor - Research on Harmony — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0615.html

[2] Quercy, A. (2024). B minor - Research on Harmony - Gallery. https://artquamanima.com/en/artworks/2024/01/b-minor-research-on-harmony_6ve.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 · B minor chord · synesthetic art · piano étude visualization · acrylic geometric forms · musical color theory · Synesthetic Explorations · harmonic relationships

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

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