AQC0930

Nanopublication — Computational Image Analysis - AQC0930

by Arnaud Quercy · Bb Minor - Research on Harmony - Variations 11 · 2025

Claim 1: Computational Image Analysis - AQC0930

> Analysis record [3]: Bb Minor [1] - Research on Harmony - Variations 11 (AQC0930) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2026-03-04.

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]: 1944x2915 pixels. Analysis date: 2026-03-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		704A72	19.7	red-violet	dusty mauve
2		61AFBB	15.8	blue-green	cadetblue
3		916B99	14.1	red-violet	dusty mauve
4		DBBAD3	10.8	red-violet	thistle
5		25212F	10.2	violet	very dark gray
6		C4839D	8.8	red	rosybrown
7		4C96A5	7.3	blue-green	steelblue
8		EFDCD8	5.6	red-orange	antiquewhite
9		95C9DA	5.0	blue	skyblue
10		CDB588	2.7	yellow-orange	tan
11		02071A	0.3	blue-violet	very dark gray [Accent]
12		675138	0.3	orange	dark brown [Accent]
13		86A08D	0.3	yellow-green	darkseagreen [Accent]

Color Families:

Family	%
red-violet	44.6
blue-green	23.1
violet	10.2
red	8.8
red-orange	5.6
blue	5.0
yellow-orange	2.7
blue-violet	0.3
orange	0.3
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
02071A	blue-violet	very dark gray	11.2
675138	orange	dark brown	19.0
86A08D	yellow-green	darkseagreen	14.8

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.206
Mean Local Roughness	0.039
Roughness Uniformity	0.035
Edge Density	0.182
Mean Gradient Magnitude	0.281
Gradient Variance	0.108
Gradient Smoothness	0.0
Directional Coherence	0.016
Pattern Complexity	0.121
Pattern Repetition	1.0
Detail Frequency Ratio	0.673
Spatial Variation	0.121
Texture Consistency	0.65

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.529
Brightness Variance	0.206
Brightness Uniformity	0.611
Brightness Skewness	-0.215
Brightness Entropy	7.611
Rms Contrast	0.206
Michelson Contrast	1.0
Weber Contrast	0.683
Mean Local Contrast	0.04
Contrast Uniformity	0.124
Dynamic Range	1.0
Effective Dynamic Range	0.718
Shadow Percentage	15.604
Midtone Percentage	59.245
Highlight Percentage	25.151
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.291
Fine Contrast	0.023
Medium Contrast	0.048
Coarse Contrast	0.06
Multiscale Contrast Ratio	0.385
Edge Contrast	0.281
Contrast Clustering	0.35

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.725
Color Clustering	0.754
Color Transition Smoothness	0.289
Transition Uniformity	0.319
Sharp Transition Ratio	0.1
Transition Directionality	0.015
Mean Saturation	0.342
Saturation Variance	0.022
Low Saturation Ratio	0.346
Medium Saturation Ratio	0.65
High Saturation Ratio	0.005
Saturation Clustering	0.999
Hue Concentration	0.481
Complementary Balance	0.031
Analogous Dominance	0.487
Temperature Bias	-0.134

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). Bb Minor - Research on Harmony - Variations 11 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0930.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/11/bb-minor-research-on-harmony-variations-11_ikt.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)

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