AQC0850

Nanopublication — Computational Image Analysis - AQC0850

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

Claim 1: Computational Image Analysis - AQC0850

> Analysis record [3]: Bb Minor [1] - Research on Harmony - Variation 11 (AQC0850) [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]: 2288x3051 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E3DDD3	15.1	yellow-orange	gainsboro
2		C7CCC3	13.9	yellow-green	silver
3		AF91E4	13.8	violet	mediumpurple
4		C14B94	11.7	red-violet	palevioletred
5		906BCF	10.9	violet	mediumslateblue
6		A52474	10.1	red	mediumvioletred
7		6945AF	7.5	violet	slateblue
8		AFB6AE	7.0	yellow-green	steel gray
9		36157E	6.2	violet	very dark purple
10		352A3B	3.8	violet	very dark gray
11		C9987D	0.3	orange	rosybrown [Accent]

Color Families:

Family	%
violet	42.2
yellow-green	20.8
yellow-orange	15.1
red-violet	11.7
red	10.1
orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
C9987D	orange	rosybrown	25.8

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.226
Mean Local Roughness	0.016
Roughness Uniformity	0.016
Edge Density	0.064
Mean Gradient Magnitude	0.139
Gradient Variance	0.03
Gradient Smoothness	0.0
Directional Coherence	0.008
Pattern Complexity	0.119
Pattern Repetition	1.0
Detail Frequency Ratio	0.607
Spatial Variation	0.164
Texture Consistency	0.532

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.568
Brightness Variance	0.226
Brightness Uniformity	0.602
Brightness Skewness	-0.253
Brightness Entropy	7.677
Rms Contrast	0.226
Michelson Contrast	1.0
Weber Contrast	0.708
Mean Local Contrast	0.017
Contrast Uniformity	0.099
Dynamic Range	1.0
Effective Dynamic Range	0.706
Shadow Percentage	16.478
Midtone Percentage	44.465
Highlight Percentage	39.057
Shadow Clipping	0.0
Highlight Clipping	0.001
Tonal Balance	0.4
Fine Contrast	0.008
Medium Contrast	0.022
Coarse Contrast	0.036
Multiscale Contrast Ratio	0.227
Edge Contrast	0.139
Contrast Clustering	0.468

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.727
Color Clustering	0.6
Color Transition Smoothness	0.655
Transition Uniformity	0.804
Sharp Transition Ratio	0.1
Transition Directionality	0.011
Mean Saturation	0.39

Metric	Value
Saturation Variance	0.082
Low Saturation Ratio	0.39
Medium Saturation Ratio	0.437
High Saturation Ratio	0.172
Saturation Clustering	1.0
Hue Concentration	0.855
Complementary Balance	0.0
Analogous Dominance	0.981
Temperature Bias	0.361

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 - Variation 11 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0850.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/01/bb-minor-research-on-harmony-variation-11_9es.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)

d0aadd7628e17e2cebbedb5214b0e0e28f7ab3e-b075ae0263c82b856e471e962

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