

Nanopublication – Computational Image Analysis – AQC0772

by Arnaud Quercy · B Major – Research on Harmony – Variation 4 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0772

Analysis record [3]: B Major [1] – Research on Harmony – Variation 4 (AQC0772) [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]: 2360x3541 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		1F1F28	21.2	violet	very dark gray
2		947ABC	17.3	violet	dusty mauve
3		64488B	16.0	violet	darkslateblue
4		785EA2	15.5	violet	blue gray
5		A98ED3	11.9	violet	mediumpurple
6		343842	7.0	blue-violet	grayish purple
7		B5C4CF	4.3	blue	lightsteelblue
8		B4B04E	2.8	yellow	ochre
9		3C8974	2.5	green	seagreen
10		CCD190	1.4	yellow-green	tan
11		836F52	0.3	yellow-orange	dimgray [Accent]
12		D2E4E9	0.3	blue-green	gainsboro [Accent]
13		F0E0EB	0.3	red-violet	white [Accent]

Color Families:

Family	%
violet	81.9
blue-violet	7.0
blue	4.3
yellow	2.8
green	2.5
yellow-green	1.4
yellow-orange	0.3
blue-green	0.3
red-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
836F52	yellow-orange	dimgray	19.2
D2E4E9	blue-green	gainsboro	6.4
F0E0EB	red-violet	white	7.6

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.196
Mean Local Roughness	0.008
Roughness Uniformity	0.01
Edge Density	0.017
Mean Gradient Magnitude	0.085
Gradient Variance	0.021
Gradient Smoothness	0.0
Directional Coherence	0.04
Pattern Complexity	0.107
Pattern Repetition	1.0
Detail Frequency Ratio	0.561
Spatial Variation	0.14
Texture Consistency	0.369

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.406
Brightness Variance	0.196
Brightness Uniformity	0.518
Brightness Skewness	-0.015
Brightness Entropy	7.388
Rms Contrast	0.196
Michelson Contrast	1.0
Weber Contrast	0.795
Mean Local Contrast	0.01
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.6
Shadow Percentage	32.478
Midtone Percentage	59.284
Highlight Percentage	8.238
Shadow Clipping	0.002
Highlight Clipping	0.0
Tonal Balance	0.121
Fine Contrast	0.004
Medium Contrast	0.012
Coarse Contrast	0.027
Multiscale Contrast Ratio	0.144
Edge Contrast	0.085
Contrast Clustering	0.631

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.782
Color Clustering	0.736
Color Transition Smoothness	0.765
Transition Uniformity	0.849
Sharp Transition Ratio	0.1
Transition Directionality	0.054
Mean Saturation	0.354
Saturation Variance	0.017
Low Saturation Ratio	0.264
Medium Saturation Ratio	0.731
High Saturation Ratio	0.005
Saturation Clustering	1.0
Hue Concentration	0.837
Complementary Balance	0.055
Analogous Dominance	0.902
Temperature Bias	-0.082

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 Major - Research on Harmony - Variation 4 - Catalog raisonn  . <https://arnaudquercy.art/en/catalogue-raisonne/AQC0772.html>

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/b-major-research-on-harmony-variation-4_8kg.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 Major triad

synesthetic art

acrylic painting

harmonic visualization

geometric abstraction

Synesthetic Explorations

musical color translation

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

653a7127e44317227a903f3c9185ac7619ed971ce8a630d7123120b5da842f40

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