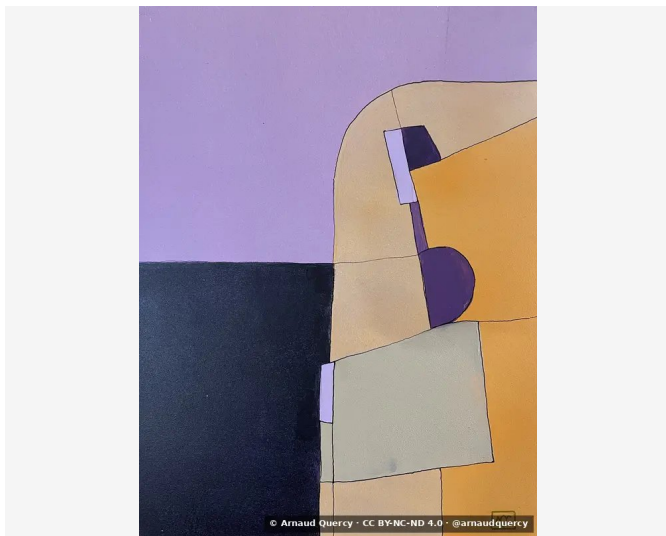


# Nanopublication – Computational Image Analysis – AQC0713

by Arnaud Quercy · Bb Minor – Research on Harmony – Variation 4 · 2024



## CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0713

The artwork Bb Minor [1] – Research on Harmony – Variation 4 (AQC0713) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

## 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]: 3024x4032 pixels. Analysis date: 2026-02-04.

## COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		A895C8	23.2	violet	steel gray
2		C3A98E	12.0	orange	tan
3		282E45	10.5	blue-violet	darkslategray
4		111428	9.8	violet	very dark purple
5		B2A0D7	9.5	violet	lightsteelblue
6		C98E44	7.7	orange	peru
7		C7BAA8	7.3	yellow-orange	silver
8		464765	6.9	violet	dusty mauve
9		D69E57	6.8	orange	sandybrown
10		AAA498	6.3	yellow-orange	steel gray
11		1C0204	0.3	red-orange	very dark gray [Accent]
12		170303	0.3	red	black [Accent]
13		D3C1DB	0.3	red-violet	thistle [Accent]

## Color Families:

Family	%
violet	49.5
orange	26.5
yellow-orange	13.6
blue-violet	10.5
red-orange	0.3
red	0.3
red-violet	0.3

## Accent Colors:

Hex	Family	Name	Chroma
1C0204	red-orange	very dark gray	10.4
170303	red	black	8.2
D3C1DB	red-violet	thistle	15.6

## TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.222
Mean Local Roughness	0.03
Roughness Uniformity	0.024
Edge Density	0.155
Mean Gradient Magnitude	0.209
Gradient Variance	0.059
Gradient Smoothness	0.0
Directional Coherence	0.01
Pattern Complexity	0.126
Pattern Repetition	1.0
Detail Frequency Ratio	0.672
Spatial Variation	0.186
Texture Consistency	0.497

## BRIGHTNESS &amp; CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.526
Brightness Variance	0.222
Brightness Uniformity	0.577
Brightness Skewness	-1.049
Brightness Entropy	6.676
Rms Contrast	0.222
Michelson Contrast	1.0
Weber Contrast	0.806
Mean Local Contrast	0.029
Contrast Uniformity	0.18
Dynamic Range	1.0
Effective Dynamic Range	0.643
Shadow Percentage	25.55
Midtone Percentage	47.675
Highlight Percentage	26.774
Shadow Clipping	0.009
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.018
Medium Contrast	0.037
Coarse Contrast	0.045
Multiscale Contrast Ratio	0.409
Edge Contrast	0.209
Contrast Clustering	0.503

## SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.764
Color Clustering	0.819
Color Transition Smoothness	0.45
Transition Uniformity	0.567
Sharp Transition Ratio	0.1
Transition Directionality	0.014
Mean Saturation	0.36
Saturation Variance	0.035
Low Saturation Ratio	0.572
Medium Saturation Ratio	0.389
High Saturation Ratio	0.039
Saturation Clustering	0.997
Hue Concentration	0.425
Complementary Balance	0.005
Analogous Dominance	0.665
Temperature Bias	0.072

## 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). Bb Minor - Research on Harmony - Variation 4 - Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0713.html>

[2] Quercy, A. (2024). Bb Minor - Research on Harmony - Variation 4 - Gallery. [https://artquamanima.com/en/art-works/2024/01/bb-minor-research-on-harmony-variation-4\\_7xi.html](https://artquamanima.com/en/art-works/2024/01/bb-minor-research-on-harmony-variation-4_7xi.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   Bb minor chord   synesthetic art  
 harmonic translation   violet orange composition  
 musical visualization   acrylic wood panel  
 Synesthetic Explorations

## EPISTEMIC PROFILE

**Claim type** computational analysis

**Voice** third person

**Epistemic status** empirical measurement

**Methodology** computational analysis

**Certainty** high

## CHECKSUM (SHA-256)

c00f6713445d301f39dada3e95f5dbdcb1c8a430d7d9d69f598c128fdb9dc3de

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**Artist** Arnaud Quercy

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