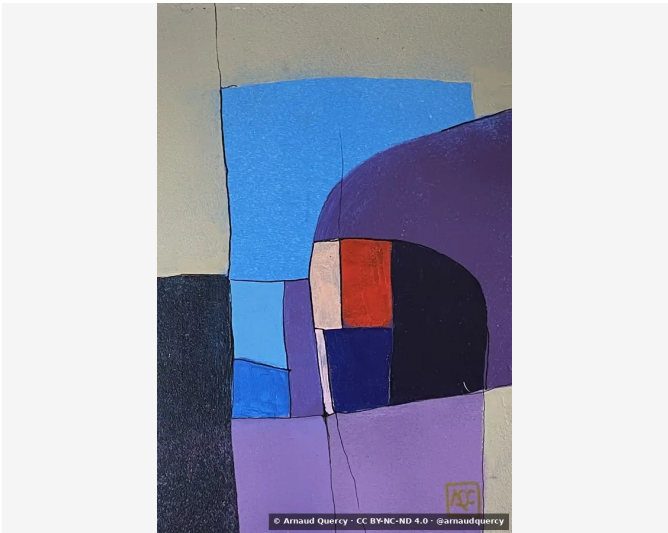


Nanopublication – Computational Image Analysis – AQC0789

by Arnaud Quercy · Ab Major – Research on Harmony – Variation 10 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0789

Computational image analysis [3] of artwork Ab Major [1] – Research on Harmony – Variation 10 (AQC0789) [2] by Arnaud Quercy [2] using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 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]: 2294x3440 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		97958A	17.5	yellow	gray
2		8A72B6	15.8	violet	mediumpurple
3		493D6B	13.8	violet	dusty mauve
4		3884D7	12.7	blue-violet	royalblue
5		1B1A2C	10.9	violet	very dark gray
6		B9B2A7	8.9	yellow-orange	steel gray
7		282B4E	8.3	violet	very dark purple
8		4E9DE8	6.2	blue-violet	cornflowerblue
9		595399	3.4	violet	darkslateblue
10		AB3728	2.3	red-orange	brown
11		DDC5DC	0.3	red-violet	thistle [Accent]
12		856C5A	0.3	orange	dimgray [Accent]
13		DCC5C7	0.3	red	thistle [Accent]

Color Families:

Family	%
violet	52.3
blue-violet	19.0
yellow	17.5
yellow-orange	8.9
red-orange	2.3
red-violet	0.3
orange	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
DDC5DC	red-violet	thistle	14.4
856C5A	orange	dimgray	15.7
DCC5C7	red	thistle	8.2

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.184
Mean Local Roughness	0.008
Roughness Uniformity	0.01
Edge Density	0.024
Mean Gradient Magnitude	0.09
Gradient Variance	0.021
Gradient Smoothness	0.0
Directional Coherence	0.04
Pattern Complexity	0.116
Pattern Repetition	1.0
Detail Frequency Ratio	0.565
Spatial Variation	0.147
Texture Consistency	0.631

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.427
Brightness Variance	0.184
Brightness Uniformity	0.569
Brightness Skewness	-0.337
Brightness Entropy	7.168
Rms Contrast	0.184
Michelson Contrast	1.0
Weber Contrast	0.79
Mean Local Contrast	0.011
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.58
Shadow Percentage	33.758
Midtone Percentage	58.729
Highlight Percentage	7.513
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.004
Medium Contrast	0.013
Coarse Contrast	0.027
Multiscale Contrast Ratio	0.152
Edge Contrast	0.09
Contrast Clustering	0.369

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.773
Color Clustering	0.579
Color Transition Smoothness	0.753
Transition Uniformity	0.84
Sharp Transition Ratio	0.1
Transition Directionality	0.049
Mean Saturation	0.404
Saturation Variance	0.053
Low Saturation Ratio	0.3
Medium Saturation Ratio	0.531
High Saturation Ratio	0.169
Saturation Clustering	1.0
Hue Concentration	0.863
Complementary Balance	0.004
Analogous Dominance	0.954
Temperature Bias	-0.374

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). Ab Major - Research on Harmony - Variation 10 - Catalog raisonn  . <https://arnaudquercy.art/en/catalogue-raisonne/AQC0789.html>

[2] Quercy, A. (2024). Ab Major - Research on Harmony - Variation 10 - Gallery. https://artquamanima.com/en/art-works/2024/01/ab-major-research-on-harmony-variation-10_8r2.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)

0ea294944994e00ba6ef4ff8ec4b507a298c807c9f246df09ab28a44b999549c

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