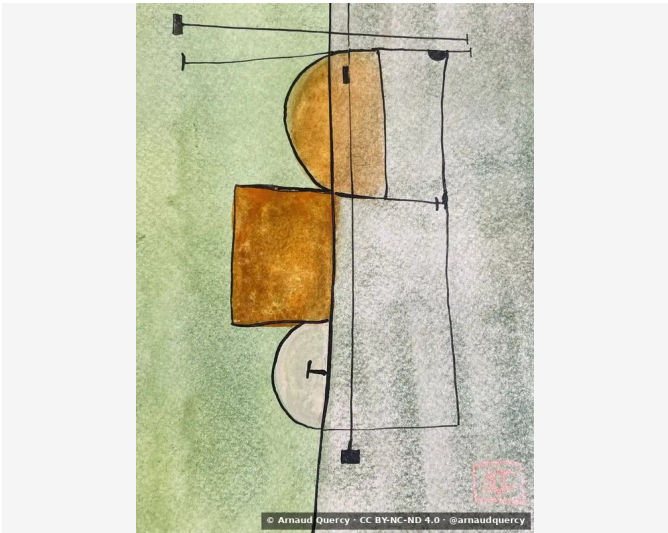


Nanopublication – Computational Image Analysis – AQC0839

by Arnaud Quercy · G Major – Research on Harmony – Variation 6 · 2025



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0839

Computational image analysis [3] of artwork G Major [1] – Research on Harmony – Variation 6 (AQC0839) [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]: 2381x3175 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		CCCAC1	17.5	yellow	silver
2		C6D2A7	15.9	yellow-green	tan
3		B6C293	15.2	yellow-green	steel gray
4		DFDCD6	12.2	white	gainsboro
5		B7B6AD	12.1	yellow	steel gray
6		A0A88B	10.3	yellow-green	darkseagreen
7		AB6B17	5.6	orange	darkgoldenrod
8		C9964B	4.6	yellow-orange	peru
9		828873	3.4	yellow-green	gray
10		2D2A25	3.3	gray	very dark gray
11		1C0A03	0.3	red-orange	black [Accent]

Color Families:

Family	%
yellow-green	44.8
yellow	29.6
white	12.2
orange	5.6
yellow-orange	4.6
gray	3.3
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
1C0A03	red-orange	black	7.8

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.149
Mean Local Roughness	0.031
Roughness Uniformity	0.024
Edge Density	0.175
Mean Gradient Magnitude	0.243
Gradient Variance	0.07
Gradient Smoothness	0.0
Directional Coherence	0.005
Pattern Complexity	0.118
Pattern Repetition	1.0
Detail Frequency Ratio	0.63
Spatial Variation	0.057
Texture Consistency	0.73

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.71
Brightness Variance	0.149
Brightness Uniformity	0.79
Brightness Skewness	-1.888
Brightness Entropy	6.882
Rms Contrast	0.149
Michelson Contrast	1.0
Weber Contrast	0.372
Mean Local Contrast	0.032
Contrast Uniformity	0.274
Dynamic Range	1.0
Effective Dynamic Range	0.455
Shadow Percentage	3.32
Midtone Percentage	21.43
Highlight Percentage	75.25
Shadow Clipping	0.006
Highlight Clipping	0.011
Tonal Balance	0.0
Fine Contrast	0.018
Medium Contrast	0.04
Coarse Contrast	0.06
Multiscale Contrast Ratio	0.308
Edge Contrast	0.243
Contrast Clustering	0.27

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.719
Color Clustering	0.442
Color Transition Smoothness	0.408
Transition Uniformity	0.553
Sharp Transition Ratio	0.1
Transition Directionality	0.007
Mean Saturation	0.202
Saturation Variance	0.048
Low Saturation Ratio	0.852
Medium Saturation Ratio	0.075
High Saturation Ratio	0.073
Saturation Clustering	0.999
Hue Concentration	0.926
Complementary Balance	0.003
Analogous Dominance	0.987
Temperature Bias	0.315

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). G Major - Research on Harmony - Variation 6 - Catalog raisonn  . <https://arnaudquercy.art/en/catalogue-raisonne/AQC0839.html>

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/01/g-major-research-on-harmony-variation-6_9ai.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)

b47c037ffbda359baf3e12f96afcf62dfeafd8de0e6e4e5390ec8be48f4baadb

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