

Nanopublication – Computational Image Analysis –
AQC0748

by Arnaud Quercy · C Major – Research on Harmony – Variation 6 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0748

The artwork C Major [1] – Research on Harmony – Variation 6 (AQC0748) [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]: 2982x3977 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		292629	16.2	gray	very dark gray
2		913933	14.9	red-orange	brown
3		B1ACA3	14.6	yellow-orange	steel gray
4		DDC2B7	13.7	orange	silver
5		AC503C	10.7	red-orange	burnt sienna
6		E88017	7.9	orange	chocolate
7		EECCD4	7.2	red	pink
8		CB3833	6.4	red-orange	firebrick
9		DF6E66	5.4	red-orange	indianred
10		E89D99	3.1	red-orange	darksalmon
11		6A475E	0.3	red-violet	dusty mauve [Accent]
12		EAEBF5	0.3	blue-violet	white [Accent]

Color Families:

Family	%
red-orange	40.4
orange	21.6
gray	16.2
yellow-orange	14.6
red	7.2
red-violet	0.3
blue-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
6A475E	red-violet	dusty mauve	20.2
EAEBF5	blue-violet	white	5.1

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.231
Mean Local Roughness	0.015
Roughness Uniformity	0.016
Edge Density	0.053
Mean Gradient Magnitude	0.139
Gradient Variance	0.041
Gradient Smoothness	0.0
Directional Coherence	0.011
Pattern Complexity	0.115
Pattern Repetition	1.0
Detail Frequency Ratio	0.593
Spatial Variation	0.146
Texture Consistency	0.667

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.509
Brightness Variance	0.231
Brightness Uniformity	0.547
Brightness Skewness	-0.118
Brightness Entropy	7.456
Rms Contrast	0.231
Michelson Contrast	1.0
Weber Contrast	0.796
Mean Local Contrast	0.018
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.69
Shadow Percentage	24.14
Midtone Percentage	42.277
Highlight Percentage	33.583
Shadow Clipping	0.004
Highlight Clipping	0.003
Tonal Balance	0.162
Fine Contrast	0.007
Medium Contrast	0.022
Coarse Contrast	0.038
Multiscale Contrast Ratio	0.182
Edge Contrast	0.139
Contrast Clustering	0.333

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.726
Color Clustering	0.572
Color Transition Smoothness	0.651
Transition Uniformity	0.731
Sharp Transition Ratio	0.1
Transition Directionality	0.018
Mean Saturation	0.398
Saturation Variance	0.09
Low Saturation Ratio	0.504
Medium Saturation Ratio	0.286
High Saturation Ratio	0.21
Saturation Clustering	1.0
Hue Concentration	0.971
Complementary Balance	0.001
Analogous Dominance	0.997
Temperature Bias	0.995

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). C Major - Research on Harmony - Variation 6 - Catalog raisonn  . <https://arnaudquercy.art/en/catalogue-raisonne/AQC0748.html>

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/c-major-research-on-harmony-variation-6_8b4.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

C Major triad

synesthetic art

geometric abstraction

red-orange tones

harmonic translation

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)

e2c81fca5035e1ea04a6115b936f496c7103fa21faaa7d094a3581534bbe086c

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