

# Nanopublication — Computational Image Analysis - AQC0971

by Arnaud Quercy · G minor 7 - Research on Harmony - Variation 2 · 2026

## Claim 1: Computational Image Analysis - AQC0971

K-means clustering analysis [3] (10 colors) performed on artwork G minor 7 - Research [1] on Harmony - Variation 2 (AQC0971) [2] by Arnaud Quercy [2] on 2026-03-05. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

### 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]: 1882x2823 pixels. Analysis date: 2026-03-05.

### COLOR ANALYSIS

Rank	Color Hex	%	Family	Name
1	DE967A	17.0	orange	darksalmon
2	503945	14.4	red	dusty mauve
3	EEA68A	12.6	orange	lightsalmon
4	625A6A	10.3	violet	dusty mauve
5	CAC8C2	10.3	white	silver
6	CC8469	8.6	orange	peru
7	302E32	8.2	gray	darkslategray
8	807784	7.6	red-violet	dusty mauve
9	EBEAE5	5.8	white	white
10	A299A3	5.3	red-violet	steel gray
11	4E1D13	0.3	red-orange	very dark red [Accent]

### Color Families:

Family	%
orange	38.2
white	16.1
red	14.4
red-violet	12.9
violet	10.3
gray	8.2
red-orange	0.3

### Accent Colors:

Hex	Family	Name	Chroma
4E1D13	red-orange	very dark red	28.4

### TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.221
Mean Local Roughness	0.048

Metric	Value
Roughness Uniformity	0.031
Edge Density	0.28
Mean Gradient Magnitude	0.355
Gradient Variance	0.119
Gradient Smoothness	0.028
Directional Coherence	0.009
Pattern Complexity	0.129
Pattern Repetition	1.0
Detail Frequency Ratio	0.675
Spatial Variation	0.171
Texture Consistency	0.517

### BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.549
Brightness Variance	0.221
Brightness Uniformity	0.598
Brightness Skewness	-0.247
Brightness Entropy	7.573
Rms Contrast	0.221
Michelson Contrast	1.0
Weber Contrast	0.716
Mean Local Contrast	0.05
Contrast Uniformity	0.349
Dynamic Range	1.0
Effective Dynamic Range	0.678
Shadow Percentage	24.169
Midtone Percentage	37.676
Highlight Percentage	38.154
Shadow Clipping	0.0
Highlight Clipping	0.07
Tonal Balance	0.24
Fine Contrast	0.029
Medium Contrast	0.061
Coarse Contrast	0.078
Multiscale Contrast Ratio	0.366
Edge Contrast	0.355
Contrast Clustering	0.483

### SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.793
Color Clustering	0.837
Color Transition Smoothness	0.104
Transition Uniformity	0.251
Sharp Transition Ratio	0.1

Metric	Value
Transition Directionality	0.01
Mean Saturation	0.26
Saturation Variance	0.034
Low Saturation Ratio	0.518
Medium Saturation Ratio	0.481
High Saturation Ratio	0.001
Saturation Clustering	0.999
Hue Concentration	0.852
Complementary Balance	0.0
Analogous Dominance	0.907
Temperature Bias	0.924

## 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 (2026). G minor 7 - Research on Harmony - Variation 2 — Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0971.html>

[2] Quercy, A. (2026). G minor 7 - Research on Harmony - Variation 2 - Gallery. [https://artquamanima.com/en/artworks/2026/03/g-minor-7-research-on-harmony-variation-2\\_1ypq.html](https://artquamanima.com/en/artworks/2026/03/g-minor-7-research-on-harmony-variation-2_1ypq.html)

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 h <https://multimodal.institute/en/publications/2025/10/mmids-cmp-2025-computational-image-analysis-standard-dg1.html>

### EPISTEMIC PROFILE

<b>Claim type</b>	computational analysis
<b>Voice</b>	third person
<b>Epistemic status</b>	empirical measurement
<b>Methodology</b>	computational analysis
<b>Certainty</b>	high

### CHECKSUM (SHA-256)

a795aa1072249b404bd708d984e6c22f8d3ad22d1fcc91218ee4c911805b-c98

<b>Artist</b>	Arnaud Quercy
<b>Date</b>	2026
<b>Collection</b>	Synesthetic Explorations
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