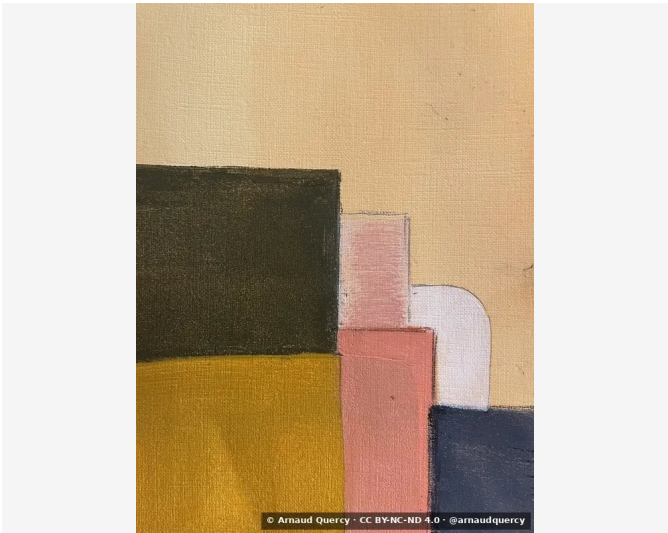


# Nanopublication – Computational Image Analysis – AQC0552

by Arnaud Quercy · C Major9 – Research on Harmony – Variation 4 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0552

Computational image analysis [3] of artwork C Major9 – Research [1] on Harmony – Variation 4 (AQC0552) [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]: 3024x4032 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

| Rank | Color | Hex    | %    | Family        | Name          |
|------|-------|--------|------|---------------|---------------|
| 1    |       | D3B289 | 24.6 | yellow-orange | tan           |
| 2    |       | 38321F | 14.3 | yellow-orange | darkslategray |
| 3    |       | E2C39A | 13.8 | yellow-orange | burlywood     |
| 4    |       | 9E6E13 | 10.6 | yellow-orange | darkgoldenrod |
| 5    |       | C99A7B | 10.4 | orange        | rosybrown     |
| 6    |       | BE8B2C | 6.4  | yellow-orange | peru          |
| 7    |       | B97665 | 6.1  | red-orange    | indianred     |
| 8    |       | 414456 | 5.6  | violet        | dusty mauve   |
| 9    |       | 5A503C | 4.6  | yellow-orange | dark brown    |
| 10   |       | DCCECC | 3.6  | red-orange    | lightgray     |

Color Families:

| Family        | %    |
|---------------|------|
| yellow-orange | 74.3 |
| orange        | 10.4 |
| red-orange    | 9.7  |
| violet        | 5.6  |

TEXTURE ANALYSIS

| Metric                  | Value |
|-------------------------|-------|
| Global Roughness        | 0.214 |
| Mean Local Roughness    | 0.019 |
| Roughness Uniformity    | 0.014 |
| Edge Density            | 0.115 |
| Mean Gradient Magnitude | 0.187 |
| Gradient Variance       | 0.029 |
| Gradient Smoothness     | 0.088 |
| Directional Coherence   | 0.029 |
| Pattern Complexity      | 0.118 |
| Pattern Repetition      | 1.0   |
| Detail Frequency Ratio  | 0.62  |
| Spatial Variation       | 0.178 |
| Texture Consistency     | 0.447 |

BRIGHTNESS & CONTRAST ANALYSIS

| Metric                    | Value  |
|---------------------------|--------|
| Mean Brightness           | 0.558  |
| Brightness Variance       | 0.214  |
| Brightness Uniformity     | 0.617  |
| Brightness Skewness       | -0.562 |
| Brightness Entropy        | 7.326  |
| Rms Contrast              | 0.214  |
| Michelson Contrast        | 1.0    |
| Weber Contrast            | 0.729  |
| Mean Local Contrast       | 0.023  |
| Contrast Uniformity       | 0.334  |
| Dynamic Range             | 1.0    |
| Effective Dynamic Range   | 0.627  |
| Shadow Percentage         | 22.407 |
| Midtone Percentage        | 31.657 |
| Highlight Percentage      | 45.936 |
| Shadow Clipping           | 0.0    |
| Highlight Clipping        | 0.0    |
| Tonal Balance             | 0.005  |
| Fine Contrast             | 0.01   |
| Medium Contrast           | 0.028  |
| Coarse Contrast           | 0.051  |
| Multiscale Contrast Ratio | 0.196  |
| Edge Contrast             | 0.187  |
| Contrast Clustering       | 0.553  |

SPATIAL DISTRIBUTION ANALYSIS

| Metric                      | Value |
|-----------------------------|-------|
| Spatial Coherence           | 0.787 |
| Color Clustering            | 0.644 |
| Color Transition Smoothness | 0.525 |
| Transition Uniformity       | 0.806 |
| Sharp Transition Ratio      | 0.1   |
| Transition Directionality   | 0.028 |
| Mean Saturation             | 0.438 |
| Saturation Variance         | 0.044 |
| Low Saturation Ratio        | 0.185 |
| Medium Saturation Ratio     | 0.647 |
| High Saturation Ratio       | 0.168 |
| Saturation Clustering       | 0.999 |
| Hue Concentration           | 0.88  |
| Complementary Balance       | 0.053 |
| Analogous Dominance         | 0.946 |
| Temperature Bias            | 0.894 |

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 Major9 - Research on Harmony - Variation 4 - Catalog raisonn  . <https://arnaudquercy.art/en/catalogue-raisonne/AQC0552.html>

[2] Quercy, A. (2024). C Major9 - Research on Harmony - Variation 4 - Gallery. [https://artquamanima.com/en/art-works/2024/01/c-major9-research-on-harmony-variation-4\\_66w.html](https://artquamanima.com/en/art-works/2024/01/c-major9-research-on-harmony-variation-4_66w.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)

36ddd9486840f96dc4271d942385bee170a92de1581296ab8c8d6ce773c3746b

Licensed under Creative Commons Attribution 4.0 International (CC BY 4.0)

|             |                   |
|-------------|-------------------|
| Artist      | Arnaud Quercy     |
| Date        | 2024              |
| Collection  | Harmonic Crossing |
| Certificate | 20240306-0048     |
| Asset code  | AQC0552           |
| Identifier  | NAN-COL000383     |
| Version     | 1                 |
| Published   | 2026-02-03        |

ISSN: applied for – U.S. ISSN Center, Library of Congress

© 2026 Ideamorphic Studies

Published by Art Quam Anima Publishing New York,  
an assumed name of AQA Publishing LLC

c/o Northwest Registered Agent, 418 Broadway Ste N  
Albany, NY 12207, USA  
+1 917-764-5470

NY DOS ID 7624376 · Assumed Name ID 7658709

[publishing.artquamanima.com](https://publishing.artquamanima.com)

Last updated: 2026-08-18

Persistent URI: <https://ideamorphism.org/en/nanopubs/2025/10/AQC0552-computational-image-analysis-aqc0552.pdf>