

AQC0700

# Nanopublication – Computational Image Analysis – AQC0700

by Arnaud Quercy · D minor – Research on Harmony – Variation 1 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0700

The artwork D minor – Research on Harmony – Variation 1 (AQC0700) <sup>[1]</sup> by Arnaud Quercy <sup>[2]</sup> underwent comprehensive computational analysis <sup>[3]</sup> 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 [6] 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]: 2061x2061 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

| Rank | Color | Hex    | %    | Family        | Name                   |
|------|-------|--------|------|---------------|------------------------|
| 1    |       | B57C22 | 27.7 | orange        | darkgoldenrod          |
| 2    |       | EA916F | 13.2 | orange        | darksalmon             |
| 3    |       | C68F36 | 11.1 | yellow-orange | peru                   |
| 4    |       | E6872A | 10.3 | orange        | goldenrod              |
| 5    |       | DCC592 | 8.9  | yellow-orange | burlywood              |
| 6    |       | 9F6432 | 8.4  | orange        | burnt sienna           |
| 7    |       | B0703E | 7.1  | orange        | burnt sienna           |
| 8    |       | 653B30 | 6.3  | red-orange    | russet                 |
| 9    |       | CAB382 | 6.1  | yellow-orange | tan                    |
| 10   |       | 4C7660 | 0.9  | yellow-green  | dimgray                |
| 11   |       | EFE2AC | 0.3  | yellow        | palegoldenrod [Accent] |

Color Families:

| Family        | %    |
|---------------|------|
| orange        | 66.7 |
| yellow-orange | 26.1 |
| red-orange    | 6.3  |
| yellow-green  | 0.9  |
| yellow        | 0.3  |

Accent Colors:

| Hex    | Family | Name          | Chroma |
|--------|--------|---------------|--------|
| EFE2AC | yellow | palegoldenrod | 28.3   |

TEXTURE ANALYSIS

| Metric                  | Value |
|-------------------------|-------|
| Global Roughness        | 0.123 |
| Mean Local Roughness    | 0.007 |
| Roughness Uniformity    | 0.02  |
| Edge Density            | 0.011 |
| Mean Gradient Magnitude | 0.049 |
| Gradient Variance       | 0.029 |
| Gradient Smoothness     | 0.0   |
| Directional Coherence   | 0.329 |
| Pattern Complexity      | 0.1   |
| Pattern Repetition      | 1.0   |
| Detail Frequency Ratio  | 0.651 |
| Spatial Variation       | 0.073 |
| Texture Consistency     | 0.334 |

BRIGHTNESS & CONTRAST ANALYSIS

| Metric                    | Value  |
|---------------------------|--------|
| Mean Brightness           | 0.562  |
| Brightness Variance       | 0.123  |
| Brightness Uniformity     | 0.781  |
| Brightness Skewness       | -0.345 |
| Brightness Entropy        | 6.728  |
| Rms Contrast              | 0.123  |
| Michelson Contrast        | 0.992  |
| Weber Contrast            | 0.406  |
| Mean Local Contrast       | 0.007  |
| Contrast Uniformity       | 0.0    |
| Dynamic Range             | 0.988  |
| Effective Dynamic Range   | 0.475  |
| Shadow Percentage         | 5.365  |
| Midtone Percentage        | 74.591 |
| Highlight Percentage      | 20.043 |
| Shadow Clipping           | 0.0    |
| Highlight Clipping        | 0.0    |
| Tonal Balance             | 0.0    |
| Fine Contrast             | 0.004  |
| Medium Contrast           | 0.009  |
| Coarse Contrast           | None   |
| Multiscale Contrast Ratio | 1.0    |
| Edge Contrast             | 0.049  |
| Contrast Clustering       | 0.666  |

SPATIAL DISTRIBUTION ANALYSIS

| Metric                      | Value |
|-----------------------------|-------|
| Spatial Coherence           | 0.838 |
| Color Clustering            | 0.356 |
| Color Transition Smoothness | 0.867 |
| Transition Uniformity       | 0.806 |
| Sharp Transition Ratio      | 0.1   |
| Transition Directionality   | 0.336 |
| Mean Saturation             | 0.649 |
| Saturation Variance         | 0.031 |
| Low Saturation Ratio        | 0.015 |
| Medium Saturation Ratio     | 0.48  |
| High Saturation Ratio       | 0.505 |
| Saturation Clustering       | 0.999 |
| Hue Concentration           | 0.972 |
| Complementary Balance       | 0.0   |
| Analogous Dominance         | 0.991 |
| Temperature Bias            | 0.982 |

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] Queracy, A. (2024). D minor - Research on Harmony - Variation 1 - Catalogue Raisonné. <https://arnaudqueracy.art/en/catalogue-raisonne/AQC0700.html>

[2] Queracy, A. (2025). ORCID <https://orcid.org/0009-0000-2662-7790>

[3] Queracy, A. (2026). MMIDS-CMP-2025: Computational Image Analysis Standard. <https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html>

[4] Queracy, A. (2026). Digital Image Documentation - aqc0700\_img\_full\_2061x2061\_webp - Nanopub. HTML: [https://multimodal.institute/en/nanopubs/2026/02/AQC0700-digital-image-documentation-aqc0700\\_img\\_full\\_2061x2061\\_webp.html](https://multimodal.institute/en/nanopubs/2026/02/AQC0700-digital-image-documentation-aqc0700_img_full_2061x2061_webp.html) PDF: [https://multimodal.institute/en/nanopubs/2026/02/AQC0700-digital-image-documentation-aqc0700\\_img\\_full\\_2061x2061\\_webp.pdf](https://multimodal.institute/en/nanopubs/2026/02/AQC0700-digital-image-documentation-aqc0700_img_full_2061x2061_webp.pdf)

[5] Queracy, A. (2025). Physical Specifications - Nanopub. HTML: <https://multimodal.institute/en/nanopubs/2025/11/AQC0700-physical-specifications.html> PDF: <https://multimodal.institute/en/nanopubs/2025/11/AQC0700-physical-specifications.pdf>

[6] Queracy, A. (2026). MMIDS/2025/CPY - Copyright and Educational Reproduction Standard. <https://multimodal.institute/en/publications/2025/11/mmids2025cpy-copyright-and-educational-reproduction-standard-dfx.html>

WHERE THIS WORK LIVES

**Series:** D minor  
**Collection:** Synesthetic Explorations  
**Technique:** Acrylic

EXHIBITIONS

- Rencontres au Marché de la Création (2024-04-23 → 2024-12-31, Marché de la Création - Paris Montparnasse, Paris)
- Salon d'art contemporain - Metamorphose, Paris (2024-12-26 → 2025-01-05, Halle des Blancs Manteaux, Paris)
- Permanent Collection 2025 - Resonance in Form (2025-01-01 → 2025-12-31, arnaudqueracy.art, Paris)
- Paris Studio Visit (2025-02-18 → 2025-02-18, Artist's Studio, Paris)
- Marché d'Art Contemporain - Seine Port (2025-05-17 → 2025-05-17, MAC Seine-Port, Seine-Port)
- Nuit des Artistes, St Germain-en-Laye, France (2025-05-24 → 2025-05-24, La Nuit des Artistes, Saint-Germain-en-Laye)
- Marché de l'Art de Saint-Germain-en-Laye, 17ème édition - France (2025-06-14 → 2025-06-14, Marché de l'Art, Saint-Germain-en-Laye)
- Salon d'art contemporain - Metamorphose 2025-2026, Paris (2025-12-26 → 2026-01-04, Halle des Blancs Manteaux, Paris)
- Art Quam Anima - Pre-opening (2026-01-31 → 2026-02-28, Art Quam Anima, Paris)
- Through the Aperture - Research on Harmony (2026-03-09 → 2026-04-30, Art Quam Anima, Paris)

OTHER WORKS IN THIS SERIES

- D minor - Research on Harmony
- D Minor - Research on Harmony - Variation 2
- D Minor - Research on Harmony - Variation 3
- D Minor - Research on Harmony - Variation 4
- D Minor - Research on Harmony - Variation 5
- D Minor - Research on Harmony - Variation 6
- D Minor - Research on Harmony - Variation 7
- D Minor - Research on Harmony - Variation 8
- D Minor - Research on Harmony - Variations 9

D Minor - Research on Harmony - Variations 10

DOCUMENTED AT

Catalogue Raisonné – D minor - Research on Harmony - Variation 1 – D minor – Research on Harmony – Variation 1 – Arnaud Quercy (2024)

Gallery – D minor - Research on Harmony - Variation 1

Nanopublication – D minor - Research on Harmony - Variation 1 – Physical Specifications

Nanopublication – D minor - Research on Harmony - Variation 1 – Chromesthetic Translation of Bill Evans's "So What" Introduction in D Minor

Nanopublication – D minor - Research on Harmony - Variation 1 – Compositional Encoding of Modal Shift and Pianistic Touch

Nanopublication – D minor - Research on Harmony - Variation 1 – Digital Image Documentation - aqc0700\_img\_full\_2061x2061\_webp

THEMATIC ELEMENTS

chromesthetic translationmodal harmonies

Bill Evans So Whatsynesthetic explorations

acrylic linen canvasD minor tonality

orange color dominancejazz standard visualization

EPISTEMIC PROFILE

|                  |                        |
|------------------|------------------------|
| Claim type       | computational analysis |
| Voice            | third person           |
| Epistemic status | empirical measurement  |
| Methodology      | computational analysis |
| Certainty        | high                   |

CHECKSUM (SHA-256)

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|             |                          |
|-------------|--------------------------|
| Artist      | Arnaud Quercy            |
| Date        | 2024                     |
| Collection  | Synesthetic Explorations |
| Certificate | 20240718-0196            |
| Asset code  | AQC0700                  |
| Version     | 1                        |
| Published   | 2025-11-26               |

ISSN: [pending – Library of Congress]

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Published by Art Quam Anima Publishing New York,  
an imprint of AQA PUBLISHING LLC  
c/o Northwest Registered Agent, 418 Broadway Ste N  
Albany, NY 12207, USA  
+1 917-764-5470

publishing.artquamanima.com

Last updated: 2026-06-03

Persistent URI: <https://multimodal.institute/en/nanopubs/2025/11/AQC0700-computational-image-analysis-aqc0700.pdf>