

Nanopublication – Computational Image Analysis –  
AQC1047

par Arnaud Quercy · Étude à l'aquarelle en La mineur n° 1 · 2026



AFFIRMATION 1: COMPUTATIONAL IMAGE ANALYSIS -  
AQC1047

Analysis record <sup>[1]</sup>: Sometimes Ago (AQC1047) <sup>[2]</sup> by Arnaud Quercy <sup>[3]</sup>. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2026-07-05.

CONTEXTE

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]: 3024x4032 pixels. Analysis date: 2026-07-05.

COLOR ANALYSIS

| Rank | Color | Hex    | %    | Family        | Name           |
|------|-------|--------|------|---------------|----------------|
| 1    |       | F39773 | 16.1 | orange        | darksalmon     |
| 2    |       | 4E514D | 14.9 | gray          | darkslategray  |
| 3    |       | C79B92 | 13.1 | red-orange    | rosybrown      |
| 4    |       | CB5547 | 12.8 | red-orange    | indianred      |
| 5    |       | 778790 | 9.2  | blue          | lightslategray |
| 6    |       | BA1F16 | 9.1  | red-orange    | firebrick      |
| 7    |       | E84820 | 8.1  | red-orange    | orangered      |
| 8    |       | EEBC97 | 6.2  | orange        | burlywood      |
| 9    |       | 854F3B | 5.4  | orange        | burnt sienna   |
| 10   |       | 190E08 | 5.1  | orange        | black          |
| 11   |       | F3F0E7 | 0.3  | yellow        | white [Accent] |
| 12   |       | BF985A | 0.3  | yellow-orange | ochre [Accent] |

Color Families:

| Family        | %    |
|---------------|------|
| red-orange    | 43.0 |
| orange        | 32.9 |
| gray          | 14.9 |
| blue          | 9.2  |
| yellow        | 0.3  |
| yellow-orange | 0.3  |

Accent Colors:

| Hex    | Family        | Name  | Chroma |
|--------|---------------|-------|--------|
| F3F0E7 | yellow        | white | 5.1    |
| BF985A | yellow-orange | ochre | 38.6   |

TEXTURE ANALYSIS

| Metric                  | Value |
|-------------------------|-------|
| Global Roughness        | 0.187 |
| Mean Local Roughness    | 0.016 |
| Roughness Uniformity    | 0.013 |
| Edge Density            | 0.015 |
| Mean Gradient Magnitude | 0.1   |
| Gradient Variance       | 0.017 |
| Gradient Smoothness     | 0.0   |
| Directional Coherence   | 0.015 |
| Pattern Complexity      | 0.128 |
| Pattern Repetition      | 1.0   |
| Detail Frequency Ratio  | 0.656 |
| Spatial Variation       | 0.096 |
| Texture Consistency     | 0.551 |

BRIGHTNESS & CONTRAST ANALYSIS

| Metric                    | Value  |
|---------------------------|--------|
| Mean Brightness           | 0.487  |
| Brightness Variance       | 0.187  |
| Brightness Uniformity     | 0.616  |
| Brightness Skewness       | -0.258 |
| Brightness Entropy        | 7.312  |
| Rms Contrast              | 0.187  |
| Michelson Contrast        | 1.0    |
| Weber Contrast            | 0.615  |
| Mean Local Contrast       | 0.014  |
| Contrast Uniformity       | 0.112  |
| Dynamic Range             | 1.0    |
| Effective Dynamic Range   | 0.612  |
| Shadow Percentage         | 22.571 |
| Midtone Percentage        | 52.469 |
| Highlight Percentage      | 24.96  |
| Shadow Clipping           | 0.0    |
| Highlight Clipping        | 0.002  |
| Tonal Balance             | 0.068  |
| Fine Contrast             | 0.011  |
| Medium Contrast           | 0.018  |
| Coarse Contrast           | 0.021  |
| Multiscale Contrast Ratio | 0.547  |
| Edge Contrast             | 0.1    |
| Contrast Clustering       | 0.449  |

SPATIAL DISTRIBUTION ANALYSIS

| Metric                      | Value |
|-----------------------------|-------|
| Spatial Coherence           | 0.761 |
| Color Clustering            | 0.382 |
| Color Transition Smoothness | 0.753 |
| Transition Uniformity       | 0.895 |
| Sharp Transition Ratio      | 0.1   |
| Transition Directionality   | 0.016 |
| Mean Saturation             | 0.477 |
| Saturation Variance         | 0.072 |
| Low Saturation Ratio        | 0.327 |
| Medium Saturation Ratio     | 0.454 |
| High Saturation Ratio       | 0.219 |
| Saturation Clustering       | 0.999 |
| Hue Concentration           | 0.94  |
| Complementary Balance       | 0.023 |
| Analogous Dominance         | 0.977 |
| Temperature Bias            | 0.954 |

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.

RÉFÉRENCES

[1] Node 17425

[2] Quercy, A. (2026). Sometimes Ago - C Major - Catalogue Raisonné. <https://arnaudquercy.art/fr/catalogue-raisonne/AQC1047.html>

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

[4] Node 242957

[5] Node 242954

[6] Node 17421

PROFIL ÉPISTÉMIQUE

|                       |                        |
|-----------------------|------------------------|
| Type de revendication | computational analysis |
| Voix                  | third person           |
| Statut épistémique    | empirical measurement  |
| Méthodologie          | computational analysis |
| Certitude             | high                   |

SOMME DE CONTRÔLE (SHA-256)

26156a33bd11c4c66f84491ea89a838ec8e3f9b4e767a6432210554253750615

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Artiste Arnaud Quercy

Date 2026

Certificat 20260713-0119

Asset code AQC1067

Identifiant NAN-COL000525

Version 1

Publié le 2026-07-05

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ISSN: demande en cours – Centre ISSN américain, Library of Congress

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Publié par Art Quam Anima Publishing New York,  
un nom commercial de 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)

Dernière mise à jour: 2026-09-15

URI persistante: <https://ideamorphism.org/fr/nanopubs/2026/07/AQC1067-computational-image-analysis-aqc1047.pdf>