

Nanopublication – Computational Image Analysis – AQC0516

by Arnaud Quercy · Pause déjeuner sur un banc - Variation 1 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0516

Computational image analysis [3] of artwork Pause [1] déjeuner sur un banc - Variation 1 (AQC0516) [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]: 2031x2843 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		B96940	15.2	orange	peru
2		591208	14.0	red-orange	very dark red
3		7B2A1D	11.0	red-orange	russet
4		281910	10.4	orange	very dark gray
5		482D25	10.1	red-orange	darkslategray
6		B69E7F	10.1	yellow-orange	rosybrown
7		D6C1A5	9.9	yellow-orange	tan
8		9B4134	8.4	red-orange	burnt sienna
9		E17403	5.9	orange	chocolate
10		9A1E07	5.0	red-orange	darkred
11		E5E0CF	0.3	yellow	gainsboro [Accent]

Color Families:

Family	%
red-orange	48.5
orange	31.5
yellow-orange	20.0
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
E5E0CF	yellow	gainsboro	9.1

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.215
Mean Local Roughness	0.01
Roughness Uniformity	0.014
Edge Density	0.027
Mean Gradient Magnitude	0.095
Gradient Variance	0.028
Gradient Smoothness	0.0
Directional Coherence	0.085
Pattern Complexity	0.108
Pattern Repetition	1.0
Detail Frequency Ratio	0.591
Spatial Variation	0.157
Texture Consistency	0.48

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.372
Brightness Variance	0.215
Brightness Uniformity	0.421
Brightness Skewness	0.514
Brightness Entropy	7.418
Rms Contrast	0.215
Michelson Contrast	1.0
Weber Contrast	0.811
Mean Local Contrast	0.012
Contrast Uniformity	0.0
Dynamic Range	0.996
Effective Dynamic Range	0.659
Shadow Percentage	52.996
Midtone Percentage	33.882
Highlight Percentage	13.122
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.121
Fine Contrast	0.005
Medium Contrast	0.015
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.095
Contrast Clustering	0.52

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.796
Color Clustering	0.526
Color Transition Smoothness	0.746
Transition Uniformity	0.813
Sharp Transition Ratio	0.1
Transition Directionality	0.094
Mean Saturation	0.633
Saturation Variance	0.06
Low Saturation Ratio	0.117
Medium Saturation Ratio	0.484
High Saturation Ratio	0.4
Saturation Clustering	0.999
Hue Concentration	0.98
Complementary Balance	0.0
Analogous Dominance	1.0
Temperature Bias	1.0

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). Pause déjeuner sur un banc - Variation 1 – Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0516.html>

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/pause-dejeuner-sur-un-banc-variation-1_5sw.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)

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