AQC0478

Nanopublication — Computational Image Analysis - AQC0478

by Arnaud Quercy · The Centaur of Pompeii · 2023

Claim 1: Computational Image Analysis - AQC0478

> Analysis record [3]: The [1] Centaur of Pompeii (AQC0478) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 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]: 1536x2048 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		DFCAA5	14.9	yellow-orange	wheat
2		D7B286	14.8	yellow-orange	tan
3		C48C64	11.1	orange	peru
4		432614	10.7	orange	very dark orange
5		5C4536	9.9	orange	dark brown
6		D5DADB	9.1	white	gainsboro
7		B65F3A	8.5	orange	burnt sienna
8		9FB1C0	8.1	blue	steel gray
9		94401E	6.7	orange	russet
10		84705E	6.1	orange	dimgray
11		E7D963	0.3	yellow	khaki [Accent]
12		2E334B	0.3	blue-violet	grayish purple [Accent]
13		799384	0.3	yellow-green	gray [Accent]
14		661304	0.3	red-orange	maroon [Accent]

Color Families:

Family	%
orange	53.1
yellow-orange	29.7
white	9.1
blue	8.1
yellow	0.3
blue-violet	0.3
yellow-green	0.3
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
E7D963	yellow	khaki	59.8
2E334B	blue-violet	grayish purple	15.5
799384	yellow-green	gray	13.0
661304	red-orange	maroon	46.9

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.228
Mean Local Roughness	0.028
Roughness Uniformity	0.023
Edge Density	0.148
Mean Gradient Magnitude	0.218
Gradient Variance	0.061
Gradient Smoothness	0.0
Directional Coherence	0.005
Pattern Complexity	0.121
Pattern Repetition	1.0
Detail Frequency Ratio	0.627
Spatial Variation	0.129
Texture Consistency	0.847

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.564
Brightness Variance	0.228
Brightness Uniformity	0.597
Brightness Skewness	-0.356
Brightness Entropy	7.63
Rms Contrast	0.228
Michelson Contrast	1.0
Weber Contrast	0.732
Mean Local Contrast	0.028
Contrast Uniformity	0.236
Dynamic Range	1.0
Effective Dynamic Range	0.69
Shadow Percentage	21.212
Midtone Percentage	35.061
Highlight Percentage	43.727
Shadow Clipping	0.0
Highlight Clipping	0.001
Tonal Balance	0.358
Fine Contrast	0.016
Medium Contrast	0.036
Coarse Contrast	0.051
Multiscale Contrast Ratio	0.316
Edge Contrast	0.218
Contrast Clustering	0.153

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.692
Color Clustering	0.722
Color Transition Smoothness	0.439
Transition Uniformity	0.594
Sharp Transition Ratio	0.1
Transition Directionality	0.006
Mean Saturation	0.413
Saturation Variance	0.059
Low Saturation Ratio	0.361
Medium Saturation Ratio	0.488
High Saturation Ratio	0.151
Saturation Clustering	0.999
Hue Concentration	0.892
Complementary Balance	0.042
Analogous Dominance	0.957
Temperature Bias	0.91

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 (2023). The Centaur of Pompeii — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0478.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2023/01/the-centaur-of-pompeii_5e4.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)

c9884de2e5de888e77e-b11190f65d90610f3e6f7d562e84e2e2b3ff389d18018

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