AQC0473

Nanopublication — Computational Image Analysis - AQC0473

by Arnaud Quercy · A Woman - Variation 1 · 2023

Claim 1: Computational Image Analysis - AQC0473

> Analysis record [3]: A Woman [1] - Variation 1 (AQC0473) [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]: 526x701 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		C1A28A	15.4	orange	rosybrown
2		DBD1C3	15.3	yellow-orange	lightgray
3		A67B6C	14.4	orange	gray
4		9D4B37	14.3	red-orange	burnt sienna
5		693326	11.6	red-orange	russet
6		271C16	9.9	orange	very dark gray
7		CB6C52	8.5	red-orange	indianred
8		565B5C	5.6	gray	dimgray
9		7494B4	3.0	blue-violet	lightslategray
10		E7C758	2.1	yellow-orange	sandybrown
11		E9E28D	0.3	yellow	khaki [Accent]
12		A7B9C8	0.3	blue	lightsteelblue [Accent]
13		7C5B80	0.3	red-violet	dusty mauve [Accent]
14		2E5A46	0.3	yellow-green	darkslategray [Accent]

Color Families:

Family	%
orange	39.7
red-orange	34.4
yellow-orange	17.4
gray	5.6
blue-violet	3.0
yellow	0.3
blue	0.3
red-violet	0.3
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
E9E28D	yellow	khaki	43.2
A7B9C8	blue	lightsteelblue	10.4
7C5B80	red-violet	dusty mauve	25.0
2E5A46	yellow-green	darkslategray	21.2

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.22
Mean Local Roughness	0.042
Roughness Uniformity	0.048
Edge Density	0.117
Mean Gradient Magnitude	0.265
Gradient Variance	0.188
Gradient Smoothness	0.0
Directional Coherence	0.028
Pattern Complexity	0.134
Pattern Repetition	1.0
Detail Frequency Ratio	0.647
Spatial Variation	0.12
Texture Consistency	0.738

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.499
Brightness Variance	0.22
Brightness Uniformity	0.559
Brightness Skewness	-0.051
Brightness Entropy	7.759
Rms Contrast	0.22
Michelson Contrast	1.0
Weber Contrast	0.754
Mean Local Contrast	0.038
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.725
Shadow Percentage	24.465
Midtone Percentage	50.954
Highlight Percentage	24.581
Shadow Clipping	0.013
Highlight Clipping	0.003
Tonal Balance	0.477
Fine Contrast	0.028
Medium Contrast	0.05
Coarse Contrast	0.071
Multiscale Contrast Ratio	0.394
Edge Contrast	0.265
Contrast Clustering	0.262

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.71
Color Clustering	0.748
Color Transition Smoothness	0.293
Transition Uniformity	0.0
Sharp Transition Ratio	0.1
Transition Directionality	0.025
Mean Saturation	0.414
Saturation Variance	0.049
Low Saturation Ratio	0.336
Medium Saturation Ratio	0.541
High Saturation Ratio	0.123
Saturation Clustering	0.995
Hue Concentration	0.84
Complementary Balance	0.06
Analogous Dominance	0.925
Temperature Bias	0.847

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). A Woman - Variation 1 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0473.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2023/01/a-woman-variation-1_5c6.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)

e0a4c22402d2aa5828e0bc1d848ae971fd056d-b015f8e3d8aa8f8ca6b6ea7577

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