AQC0431

Nanopublication — Computational Image Analysis - AQC0431

by Arnaud Quercy · Parable of the Senses · 2024

Claim 1: Computational Image Analysis - AQC0431

> Analysis record [3]: Parable [1] of the Senses (AQC0431) [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		CEBEAC	15.5	orange	silver
2		AB8763	14.8	orange	rosybrown
3		C8AE78	12.6	yellow-orange	ochre
4		946046	12.5	orange	burnt sienna
5		E2DAD5	12.1	white	gainsboro
6		4A555B	8.5	blue	darkslategray
7		6D757A	6.8	gray	dimgray
8		733C25	6.7	orange	russet
9		939C9B	6.3	gray	steel gray
10		2A3235	4.3	gray	darkslategrey
11		423C08	0.3	yellow	dark brown [Accent]
12		972A1D	0.3	red-orange	brown [Accent]
13		638BB2	0.3	blue-violet	grayish purple [Accent]
14		571726	0.3	red	very dark red [Accent]

Color Families:

Family	%
orange	49.5
gray	17.3
yellow-orange	12.6
white	12.1
blue	8.5
yellow	0.3
red-orange	0.3
blue-violet	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
423C08	yellow	dark brown	31.3
972A1D	red-orange	brown	55.6
638BB2	blue-violet	grayish purple	25.2
571726	red	very dark red	31.6

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.2
Mean Local Roughness	0.022
Roughness Uniformity	0.016
Edge Density	0.138
Mean Gradient Magnitude	0.176
Gradient Variance	0.029
Gradient Smoothness	0.027
Directional Coherence	0.024
Pattern Complexity	0.132
Pattern Repetition	1.0
Detail Frequency Ratio	0.631
Spatial Variation	0.139
Texture Consistency	0.703

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.569
Brightness Variance	0.2
Brightness Uniformity	0.649
Brightness Skewness	-0.17
Brightness Entropy	7.562
Rms Contrast	0.2
Michelson Contrast	1.0
Weber Contrast	0.643
Mean Local Contrast	0.023
Contrast Uniformity	0.346
Dynamic Range	1.0
Effective Dynamic Range	0.635
Shadow Percentage	13.879
Midtone Percentage	49.2
Highlight Percentage	36.921
Shadow Clipping	0.001
Highlight Clipping	0.001
Tonal Balance	0.331
Fine Contrast	0.013
Medium Contrast	0.029
Coarse Contrast	0.04
Multiscale Contrast Ratio	0.316
Edge Contrast	0.176
Contrast Clustering	0.297

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.718
Color Clustering	0.772
Color Transition Smoothness	0.544
Transition Uniformity	0.801
Sharp Transition Ratio	0.1
Transition Directionality	0.025
Mean Saturation	0.319
Saturation Variance	0.045
Low Saturation Ratio	0.491
Medium Saturation Ratio	0.463
High Saturation Ratio	0.046
Saturation Clustering	0.999
Hue Concentration	0.661
Complementary Balance	0.152
Analogous Dominance	0.841
Temperature Bias	0.691

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). Parable of the Senses — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0431.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/parable-of-the-senses_4vu.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

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