AQC0338

Nanopublication — Computational Image Analysis - AQC0338

by Arnaud Quercy · God's vacations · 2022

Claim 1: Computational Image Analysis - AQC0338

> Computational image analysis [3] of artwork God [1]'s vacations (AQC0338) [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]: 2808x3744 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		0B0606	22.7	black	black
2		221714	13.7	red-orange	black
3		812D1E	11.3	red-orange	russet
4		5A3228	11.0	red-orange	russet
5		352929	11.0	red-orange	very dark gray
6		8C4A34	10.2	red-orange	burnt sienna
7		A95F45	9.2	orange	burnt sienna
8		B88162	4.9	orange	peru
9		5B5353	4.8	gray	dimgray
10		D2C2AD	1.3	yellow-orange	silver
11		52677C	0.3	blue-violet	grayish purple [Accent]
12		314756	0.3	blue	grayish purple [Accent]

Color Families:

Family	%
red-orange	57.2
black	22.7
orange	14.0
gray	4.8
yellow-orange	1.3
blue-violet	0.3
blue	0.3

Accent Colors:

Hex	Family	Name	Chroma
52677C	blue-violet	grayish purple	14.1
314756	blue	grayish purple	12.6

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.168
Mean Local Roughness	0.017
Roughness Uniformity	0.008
Edge Density	0.04
Mean Gradient Magnitude	0.124
Gradient Variance	0.011
Gradient Smoothness	0.145
Directional Coherence	0.01
Pattern Complexity	0.129
Pattern Repetition	1.0
Detail Frequency Ratio	0.627
Spatial Variation	0.093
Texture Consistency	0.727

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.229
Brightness Variance	0.168
Brightness Uniformity	0.266
Brightness Skewness	0.692
Brightness Entropy	7.169
Rms Contrast	0.168
Michelson Contrast	1.0
Weber Contrast	0.94
Mean Local Contrast	0.016
Contrast Uniformity	0.491
Dynamic Range	0.925
Effective Dynamic Range	0.51
Shadow Percentage	74.177
Midtone Percentage	24.439
Highlight Percentage	1.384
Shadow Clipping	0.353
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.02
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.124
Contrast Clustering	0.273

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.691
Color Clustering	0.636

Metric	Value
Color Transition Smoothness	0.659
Transition Uniformity	0.911
Sharp Transition Ratio	0.1
Transition Directionality	0.019
Mean Saturation	0.524
Saturation Variance	0.058
Low Saturation Ratio	0.199
Medium Saturation Ratio	0.537
High Saturation Ratio	0.264
Saturation Clustering	0.995
Hue Concentration	0.799
Complementary Balance	0.066
Analogous Dominance	0.891
Temperature Bias	0.807

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 (2022). God's vacations — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0338.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2022/01/gods-vacations_3vo.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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