AQC0580

Nanopublication — Computational Image Analysis - AQC0580

by Arnaud Quercy · In the Woods of Saint Germain · 2024

Claim 1: Computational Image Analysis - AQC0580

> Analysis record [3]: In the Woods [1] of Saint Germain (AQC0580) [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]: 2118x3177 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		302E27	25.4	yellow	very dark gray
2		423F3F	16.0	gray	darkslategray
3		AFAC92	15.1	yellow	steel gray
4		757467	11.3	yellow	dimgray
5		5A5556	11.0	gray	dimgrey
6		919081	9.3	yellow	gray
7		B08F61	3.8	yellow-orange	ochre
8		C9C8BA	3.0	yellow	silver
9		191613	2.9	black	black
10		BA7B34	2.1	orange	peru
11		F7F3FC	0.3	violet	white [Accent]

Color Families:

Family	%
yellow	64.1
gray	27.0
yellow-orange	3.8
black	2.9
orange	2.1
violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
F7F3FC	violet	white	5.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.2
Mean Local Roughness	0.031
Roughness Uniformity	0.03
Edge Density	0.141
Mean Gradient Magnitude	0.261
Gradient Variance	0.101
Gradient Smoothness	0.0
Directional Coherence	0.044
Pattern Complexity	0.13
Pattern Repetition	1.0
Detail Frequency Ratio	0.654
Spatial Variation	0.14
Texture Consistency	0.585

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.388
Brightness Variance	0.2
Brightness Uniformity	0.486
Brightness Skewness	0.377
Brightness Entropy	7.34
Rms Contrast	0.2
Michelson Contrast	1.0
Weber Contrast	0.75
Mean Local Contrast	0.034
Contrast Uniformity	0.075
Dynamic Range	1.0
Effective Dynamic Range	0.557
Shadow Percentage	48.79
Midtone Percentage	39.704
Highlight Percentage	11.506
Shadow Clipping	0.027
Highlight Clipping	0.005
Tonal Balance	0.002
Fine Contrast	0.016
Medium Contrast	0.042
Coarse Contrast	0.068
Multiscale Contrast Ratio	0.238
Edge Contrast	0.261
Contrast Clustering	0.415

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.705
Color Clustering	0.849
Color Transition Smoothness	0.303
Transition Uniformity	0.323
Sharp Transition Ratio	0.1
Transition Directionality	0.045
Mean Saturation	0.179

Metric	Value
Saturation Variance	0.02
Low Saturation Ratio	0.881
Medium Saturation Ratio	0.103
High Saturation Ratio	0.016
Saturation Clustering	0.999
Hue Concentration	0.762
Complementary Balance	0.009
Analogous Dominance	0.86
Temperature Bias	0.744

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). In the Woods of Saint Germain — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0580.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/in-the-woods-of-saint-germain_6hs.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)

1f30ece950bab0554d74753042ae02a34ddf42dbc5a86e-f92824c21d320c6919

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