

Nanopublication – Computational Image Analysis –
AQC0565

by Arnaud Quercy · Composition 1 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0565

Analysis record: Composition 1 (AQC0565) ^[1]
by Arnaud Quercy ^[2], per IDS-CMP-2025 ^[3].
Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2025-10-03.

CONTEXT

Analysis performed according to IDS-CMP-2025 ^[3] includes four metric categories: (a) Color distribution via k-means (10 colors), (b) Texture analysis using Haralick features, (c) Brightness and contrast measurements, (d) Spatial pattern characterization. Source image: 1376x2048 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		B9A5BB	16.5	red-violet	steel gray
2		9A7A4F	14.5	yellow-orange	burnt sienna
3		A894AC	14.4	red-violet	steel gray
4		C0B6D0	12.1	violet	silver
5		9C8097	10.6	red-violet	dusty mauve
6		A9885E	9.3	yellow-orange	peru
7		080B15	9.1	violet	black
8		C7D3EA	7.4	blue-violet	lightgray
9		945E76	3.8	red	dusty mauve
10		742F4A	2.3	red	dusty mauve
11		B6AC84	0.3	yellow	ochre [Accent]

Color Families:

Family	%
red-violet	41.4
yellow-orange	23.8
violet	21.2
blue-violet	7.4
red	6.2
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
B6AC84	yellow	ochre	22.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.201
Mean Local Roughness	0.032
Roughness Uniformity	0.03
Edge Density	0.168
Mean Gradient Magnitude	0.226
Gradient Variance	0.082
Gradient Smoothness	0.0
Directional Coherence	0.026
Pattern Complexity	0.116
Pattern Repetition	1.0
Detail Frequency Ratio	0.661
Spatial Variation	0.089
Texture Consistency	0.39

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.562
Brightness Variance	0.201
Brightness Uniformity	0.643
Brightness Skewness	-1.345
Brightness Entropy	7.132
Rms Contrast	0.201
Michelson Contrast	1.0
Weber Contrast	0.667
Mean Local Contrast	0.031
Contrast Uniformity	0.055
Dynamic Range	1.0
Effective Dynamic Range	0.776
Shadow Percentage	11.041
Midtone Percentage	56.472
Highlight Percentage	32.487
Shadow Clipping	0.008
Highlight Clipping	0.002
Tonal Balance	0.0
Fine Contrast	0.019
Medium Contrast	0.039
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.226
Contrast Clustering	0.61

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.737
Color Clustering	0.849
Color Transition Smoothness	0.435
Transition Uniformity	0.462
Sharp Transition Ratio	0.1
Transition Directionality	0.028
Mean Saturation	0.299
Saturation Variance	0.043
Low Saturation Ratio	0.619
Medium Saturation Ratio	0.322
High Saturation Ratio	0.06
Saturation Clustering	0.998
Hue Concentration	0.468
Complementary Balance	0.057
Analogous Dominance	0.752
Temperature Bias	0.536

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 Ideamorphic Studies' computational imaging systems.

REFERENCES

[1] Quercy, A. (2024). Composition 1 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0565.html>

[2] Quercy, A. (2025). ORCID <https://orcid.org/0009-0000-2662-7790>

[3] Quercy, A. (2026). Computational Image Analysis Standard. <https://ideamorphism.org/en/measurements/2025/09/ids-cmp-2025-computational-image-analysis-standard-5dq9.html>

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

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Artist Arnaud Quercy

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