

Nanopublication – Computational Image Analysis –
AQC0566

by Arnaud Quercy · Composition 2 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0566

K-means clustering (10 colors) performed on artwork Composition 2 (AQC0566) ^[1] by Arnaud Quercy ^[2] on 2025-10-03, according to IDS-CMP-2025 ^[3]. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

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: 1366x2048 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		7B7075	19.1	red	dusty mauve
2		968790	17.6	red-violet	dusty mauve
3		B1B69A	12.9	yellow-green	steel gray
4		5F5A54	10.6	gray	dimgray
5		D6DCB1	8.7	yellow-green	palegoldenrod
6		919A64	8.2	yellow-green	gray
7		B26170	7.7	red	indianred
8		C0C368	6.8	yellow	ochre
9		D28290	6.1	red	palevioletred
10		22211D	2.5	gray	very dark gray
11		130100	0.3	red-orange	black [Accent]
12		2C4140	0.3	green	darkslategray [Accent]
13		69591F	0.3	yellow-orange	dark brown [Accent]
14		C6D0D7	0.3	blue	lightgray [Accent]
15		D7DBE4	0.3	blue-violet	gainsboro [Accent]

Color Families:

Family	%
red	32.8
yellow-green	29.7
red-violet	17.6
gray	13.1
yellow	6.8
red-orange	0.3
green	0.3
yellow-orange	0.3
blue	0.3
blue-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
130100	red-orange	black	6.3
2C4140	green	darkslategray	9.2
69591F	yellow-orange	dark brown	35.0
C6D0D7	blue	lightgray	5.4
D7DBE4	blue-violet	gainsboro	5.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.161
Mean Local Roughness	0.063
Roughness Uniformity	0.029
Edge Density	0.341
Mean Gradient Magnitude	0.444
Gradient Variance	0.119
Gradient Smoothness	0.222
Directional Coherence	0.012
Pattern Complexity	0.12
Pattern Repetition	1.0
Detail Frequency Ratio	0.688
Spatial Variation	0.095
Texture Consistency	0.805

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.558
Brightness Variance	0.161
Brightness Uniformity	0.711
Brightness Skewness	-0.131
Brightness Entropy	7.336
Rms Contrast	0.161
Michelson Contrast	1.0
Weber Contrast	0.515
Mean Local Contrast	0.061
Contrast Uniformity	0.549
Dynamic Range	1.0
Effective Dynamic Range	0.514
Shadow Percentage	5.861
Midtone Percentage	68.732
Highlight Percentage	25.406
Shadow Clipping	0.049
Highlight Clipping	0.006
Tonal Balance	0.047
Fine Contrast	0.04
Medium Contrast	0.075
Coarse Contrast	0.092
Multiscale Contrast Ratio	0.433
Edge Contrast	0.444
Contrast Clustering	0.195

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.725
Color Clustering	0.63
Color Transition Smoothness	0.0
Transition Uniformity	0.213
Sharp Transition Ratio	0.1
Transition Directionality	0.012
Mean Saturation	0.251
Saturation Variance	0.025
Low Saturation Ratio	0.702
Medium Saturation Ratio	0.289
High Saturation Ratio	0.009
Saturation Clustering	0.997
Hue Concentration	0.699
Complementary Balance	0.014
Analogous Dominance	0.632
Temperature Bias	0.451

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 2 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0566.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

CHECKSUM (SHA-256)

527db34acb7cb9651ad627276d5a0af5cc4e9d9a7a379dd678f6b619a5453f51

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