

Nanopublication – Computational Image Analysis –
AQC0341

by Arnaud Quercy · Blindsight · 2022



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0341

K-means clustering (10 colors) performed on artwork Blindsight (AQC0341) ^[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: 2000x2000 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		07080A	48.5	black	black
2		0E0F11	19.2	black	black
3		1C1710	8.1	orange	black
4		191C20	6.8	gray	very dark gray
5		282A2C	4.9	gray	very dark gray
6		362B1C	4.7	orange	very dark gray
7		41413E	3.7	gray	darkslategray
8		56451D	2.3	yellow-orange	dark brown
9		5A5F59	1.0	gray	dimgray
10		7A7028	0.8	yellow	olivedrab

Color Families:

Family	%
black	67.7
gray	16.4
orange	12.8
yellow-orange	2.3
yellow	0.8

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.077
Mean Local Roughness	0.002
Roughness Uniformity	0.004
Edge Density	0.003
Mean Gradient Magnitude	0.015
Gradient Variance	0.002
Gradient Smoothness	0.0
Directional Coherence	0.531
Pattern Complexity	0.067
Pattern Repetition	1.0
Detail Frequency Ratio	0.576
Spatial Variation	0.053
Texture Consistency	0.317

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.082
Brightness Variance	0.077
Brightness Uniformity	0.056
Brightness Skewness	2.087
Brightness Entropy	5.397
Rms Contrast	0.077
Michelson Contrast	1.0
Weber Contrast	0.854
Mean Local Contrast	0.002
Contrast Uniformity	0.0
Dynamic Range	0.502
Effective Dynamic Range	0.235
Shadow Percentage	98.293
Midtone Percentage	1.707
Highlight Percentage	0.0
Shadow Clipping	0.046
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.001
Medium Contrast	0.003
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.015
Contrast Clustering	0.683

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.774
Color Clustering	0.309
Color Transition Smoothness	0.949
Transition Uniformity	0.982
Sharp Transition Ratio	0.1
Transition Directionality	0.546
Mean Saturation	0.315
Saturation Variance	0.029
Low Saturation Ratio	0.38
Medium Saturation Ratio	0.607
High Saturation Ratio	0.013
Saturation Clustering	1.0
Hue Concentration	0.391
Complementary Balance	0.142
Analogous Dominance	0.687
Temperature Bias	-0.418

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. (2022). Blindsight - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0341.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)

1c667bc47fba0173b9532391f1f2bfc483fad801694066a4d49b61a5050d2b8

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Artist	Arnaud Quercy
Date	2022
Collection	Research on Tensions
Certificate	20221231-0011
Asset code	AQC0341

Identifier	NAN-COL000486
Version	1
Published	2025-10-03

ISSN: applied for – U.S. ISSN Center, Library of Congress

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Published by Art Quam Anima Publishing New York,
an assumed name of AQA Publishing LLC

c/o Northwest Registered Agent, 418 Broadway Ste N
Albany, NY 12207, USA
+1 917-764-5470

NY DOS ID 7624376 · Assumed Name ID 7658709

publishing.artquamanima.com

Last updated: 2026-09-15

Persistent URI: <https://ideamorphism.org/en/nanopubs/2025/10/AQC0341-computational-image-analysis-aqc0341.pdf>