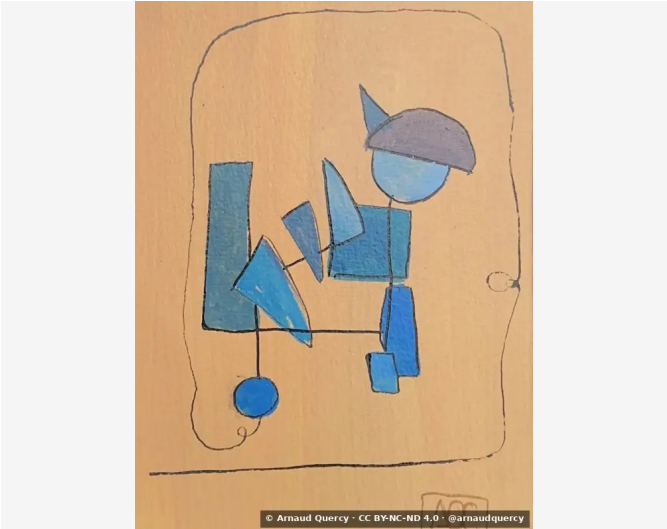


Nanopublication – Computational Image Analysis –
AQC0540

by Arnaud Quercy · Cat's playing with a yarn ball · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0540

The artwork Cat's playing with a yarn ball (AQC0540) ^[1] by Arnaud Quercy ^[2] underwent comprehensive computational analysis ^[3] on 2025-10-03. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

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: 1154x1539 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		DAAC7C	28.3	orange	burlywood
2		D4A371	27.2	orange	darksalmon
3		DEB489	26.3	orange	tan
4		5F8193	4.8	blue	blue gray
5		4085B8	4.7	blue-violet	grayish purple
6		999095	2.5	gray	lightslategray
7		88AAC0	2.1	blue	steel gray
8		625A56	1.6	gray	dimgray
9		9D7B5E	1.5	orange	gray
10		3C322E	1.0	orange	darkslategray
11		18160D	0.3	yellow-orange	black [Accent]
12		231311	0.3	red-orange	black [Accent]

Color Families:

Family	%
orange	84.3
blue	6.9
blue-violet	4.7
gray	4.1
yellow-orange	0.3
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
18160D	yellow-orange	black	5.0
231311	red-orange	black	9.8

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.102
Mean Local Roughness	0.009
Roughness Uniformity	0.016
Edge Density	0.022
Mean Gradient Magnitude	0.077
Gradient Variance	0.034
Gradient Smoothness	0.0
Directional Coherence	0.118
Pattern Complexity	0.106
Pattern Repetition	1.0
Detail Frequency Ratio	0.595
Spatial Variation	0.046
Texture Consistency	0.56

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.667
Brightness Variance	0.102
Brightness Uniformity	0.848
Brightness Skewness	-2.266
Brightness Entropy	5.717
Rms Contrast	0.102
Michelson Contrast	1.0
Weber Contrast	0.333
Mean Local Contrast	0.01
Contrast Uniformity	0.0
Dynamic Range	0.957
Effective Dynamic Range	0.302
Shadow Percentage	1.534
Midtone Percentage	20.012
Highlight Percentage	78.454
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.005
Medium Contrast	0.013
Coarse Contrast	0.025
Multiscale Contrast Ratio	0.184
Edge Contrast	0.077
Contrast Clustering	0.44

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.777
Color Clustering	0.366
Color Transition Smoothness	0.789
Transition Uniformity	0.768
Sharp Transition Ratio	0.1
Transition Directionality	0.132
Mean Saturation	0.42
Saturation Variance	0.009
Low Saturation Ratio	0.069
Medium Saturation Ratio	0.916
High Saturation Ratio	0.016
Saturation Clustering	1.0
Hue Concentration	0.756
Complementary Balance	0.098
Analogous Dominance	0.878
Temperature Bias	0.756

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). Cat's playing with a yarn ball - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0540.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)

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