

Nanopublication – Computational Image Analysis –
AQC0503

by Arnaud Quercy · Twilight Play - The Quiet Hour · 2023



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0503

Computational image analysis of artwork Twilight Play - The Quiet Hour (AQC0503) ^[1] by Arnaud Quercy ^[2], performed according to IDS-CMP-2025 ^[3], using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 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: 526x526 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D2AC89	14.9	orange	tan
2		DDD2C5	13.3	yellow-orange	lightgray
3		AE8469	12.6	orange	rosybrown
4		C5B8B1	12.2	orange	silver
5		E28B68	11.2	orange	darksalmon
6		8E5F45	8.7	orange	burnt sienna
7		CB693E	8.2	orange	peru
8		B9501C	7.6	orange	burnt sienna
9		AF889E	7.6	red-violet	steel gray
10		5B2F1B	3.8	orange	russet
11		2A0D03	0.3	red-orange	very dark red [Accent]
12		54778D	0.3	blue	blue gray [Accent]
13		565243	0.3	yellow	dark brown [Accent]
14		33262B	0.3	red	very dark gray [Accent]

Color Families:

Family	%
orange	79.1
yellow-orange	13.3
red-violet	7.6
red-orange	0.3
blue	0.3
yellow	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
2A0D03	red-orange	very dark red	17.2
54778D	blue	blue gray	17.5
565243	yellow	dark brown	9.1
33262B	red	very dark gray	7.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.156
Mean Local Roughness	0.046
Roughness Uniformity	0.032
Edge Density	0.216
Mean Gradient Magnitude	0.298
Gradient Variance	0.102
Gradient Smoothness	0.0
Directional Coherence	0.012
Pattern Complexity	0.127
Pattern Repetition	1.0
Detail Frequency Ratio	0.658
Spatial Variation	0.084
Texture Consistency	0.796

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.609
Brightness Variance	0.156
Brightness Uniformity	0.743
Brightness Skewness	-0.453
Brightness Entropy	7.293
Rms Contrast	0.156
Michelson Contrast	1.0
Weber Contrast	0.495
Mean Local Contrast	0.042
Contrast Uniformity	0.264
Dynamic Range	1.0
Effective Dynamic Range	0.49
Shadow Percentage	4.254
Midtone Percentage	56.325
Highlight Percentage	39.421
Shadow Clipping	0.0
Highlight Clipping	0.002
Tonal Balance	0.074
Fine Contrast	0.033
Medium Contrast	0.052
Coarse Contrast	0.066
Multiscale Contrast Ratio	0.497
Edge Contrast	0.298
Contrast Clustering	0.204

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.695
Color Clustering	0.513
Color Transition Smoothness	0.249
Transition Uniformity	0.326
Sharp Transition Ratio	0.1
Transition Directionality	0.008
Mean Saturation	0.404
Saturation Variance	0.059
Low Saturation Ratio	0.39
Medium Saturation Ratio	0.467
High Saturation Ratio	0.143
Saturation Clustering	0.998
Hue Concentration	0.935
Complementary Balance	0.001
Analogous Dominance	0.926
Temperature Bias	0.99

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. (2023). Twilight Play - The Quiet Hour - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0503.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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