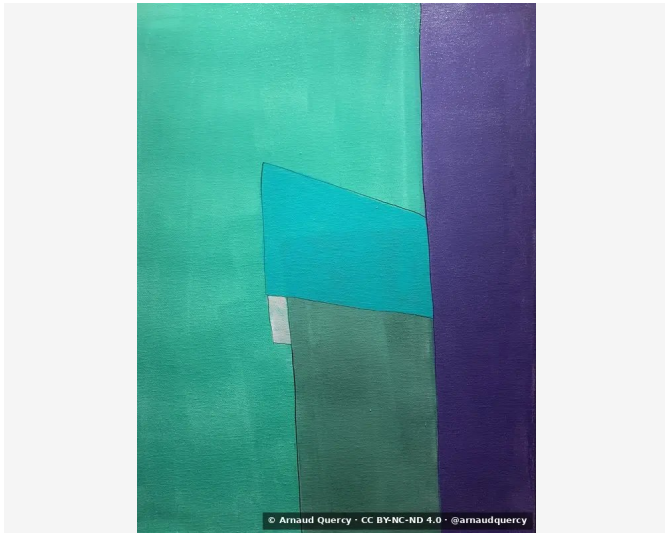


# Nanopublication – Computational Image Analysis – AQC0601

by Arnaud Quercy · F# Major - Research on Harmony · 2024



## CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0601

The artwork F# Major [1] - Research on Harmony (AQC0601) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

## CONTEXT

Analysis performed according to MMIDS-CMP-2025 [3] includes four metric categories: (1) Color distribution via k-means (10 colors), (2) Texture analysis using Haralick features, (3) Brightness and contrast measurements, (4) Spatial pattern characterization. Source image [5]: 2041x2721 pixels. Analysis date: 2026-02-04.

## COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		45BFA7	17.5	green	mediumaquamarine
2		59D1BA	13.4	green	mediumturquoise
3		2E2353	11.2	violet	very dark purple
4		38A28D	10.7	green	mediumseagreen
5		493F76	8.8	violet	dusty mauve
6		10AFB4	8.7	blue-green	lightseagreen
7		2C5C50	8.3	green	darkslategray
8		1F846F	8.1	green	seagreen
9		675E98	6.7	violet	dusty mauve
10		477A6D	6.6	green	dimgray
11		032B37	0.3	blue	very dark gray [Accent]
12		051D38	0.3	blue-violet	very dark indigo [Accent]
13		20112A	0.3	red-violet	very dark purple [Accent]

## Color Families:

Family	%
green	64.6
violet	26.7
blue-green	8.7
blue	0.3
blue-violet	0.3
red-violet	0.3

## Accent Colors:

Hex	Family	Name	Chroma
032B37	blue	very dark gray	14.4
051D38	blue-violet	very dark indigo	20.2
20112A	red-violet	very dark purple	21.2

## TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.162
Mean Local Roughness	0.038
Roughness Uniformity	0.021
Edge Density	0.225
Mean Gradient Magnitude	0.284
Gradient Variance	0.052
Gradient Smoothness	0.195
Directional Coherence	0.009
Pattern Complexity	0.164
Pattern Repetition	1.0
Detail Frequency Ratio	0.696
Spatial Variation	0.142
Texture Consistency	0.687

## BRIGHTNESS &amp; CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.449
Brightness Variance	0.162
Brightness Uniformity	0.64
Brightness Skewness	-0.216
Brightness Entropy	7.263
Rms Contrast	0.162
Michelson Contrast	1.0
Weber Contrast	0.675
Mean Local Contrast	0.044
Contrast Uniformity	0.491
Dynamic Range	1.0
Effective Dynamic Range	0.506
Shadow Percentage	26.298
Midtone Percentage	66.418
Highlight Percentage	7.284
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.101
Fine Contrast	0.02
Medium Contrast	0.051
Coarse Contrast	0.05
Multiscale Contrast Ratio	0.394
Edge Contrast	0.284
Contrast Clustering	0.313

## SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.811
Color Clustering	0.376
Color Transition Smoothness	0.29
Transition Uniformity	0.676
Sharp Transition Ratio	0.1
Transition Directionality	0.009
Mean Saturation	0.605
Saturation Variance	0.025
Low Saturation Ratio	0.009
Medium Saturation Ratio	0.781
High Saturation Ratio	0.21
Saturation Clustering	0.998
Hue Concentration	0.802
Complementary Balance	0.0
Analogous Dominance	0.791
Temperature Bias	-0.734

## 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 Multimodal Institute's computational imaging systems.

## REFERENCES

[1] Arnaud Quercy (2024). F# Major - Research on Harmony - Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0601.html>

[2] Quercy, A. (2024). F# Major - Research on Harmony - Gallery. [https://artquamanima.com/en/artworks/2024/01/f-major-research-on-harmony\\_6py.html](https://artquamanima.com/en/artworks/2024/01/f-major-research-on-harmony_6py.html)

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 <https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html>

## WHERE THIS WORK LIVES

## THEMATIC ELEMENTS

chromesthetic mapping F# Major triad  
 synesthetic explorations acrylic geometric forms  
 harmonic color relationships musical visualization  
 green violet blue-green contemporary color theory

## EPISTEMIC PROFILE

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

## CHECKSUM (SHA-256)

8fc66a1baed70d183c1325bd0c71a5e09df0d805f711cbc7ebed1f0310e36ce8

Licensed under Creative Commons Attribution 4.0 International (CC BY 4.0)

**Artist** Arnaud Quercy  
**Date** 2024  
**Collection** Synesthetic Explorations  
**Certificate** 20240602-0097  
**Asset code** AQC0601  
**Identifier** NAN-COL000345  
**Version** 1  
**Published** 2026-02-03

ISSN: [pending – Library of Congress]

© 2026 Multimodal Institute

Published by Art Quam Anima Publishing New York,  
an imprint of AQA PUBLISHING LLC

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

[publishing.artquamanima.com](http://publishing.artquamanima.com)

Last updated: 2026-06-03

Persistent URI: <https://multimodal.institute/en/nanopubs/2026/02/AQC0601-computational-image-analysis-aqc0601.pdf>