

# Nanopublication — Register-to-Brightness Encoding of the Nocturne's Opening Bars

by Arnaud Quercy [2] · B Major - Research on Harmony - Variation 2 · 2024

## Claim 2: Register-to-Brightness Encoding of the Nocturne's Opening Bars

The composition maps the vertical structure of Chopin [3]'s Nocturne as it opens: the rooted B in the bass register (B2) appears as dark green at the base of the painting, the left hand arpeggios spread the triad through the middle range in moderate greens, and the melody entering in the upper register brings brighter yellow-greens and yellows. The same pitches shift in luminosity according to their register — lower is darker, higher is brighter — so that the painting reads from depth to light as the Nocturne unfolds from its bass anchor into song.

### CONTEXT

The pitch-to-brightness principle is consistent across my Synesthetic Explorations: within any given color association, lower register appearances are darker and higher register appearances are brighter. This is not an imposed system but an observed regularity in how I experience pitch — the same note played two octaves apart carries the same hue but a different luminosity.

In this painting, the principle becomes structurally visible because the Nocturne's opening establishes a wide registral span. The B2 in the bass sits deep in the keyboard, and I experience it as a dark, almost black-green. The left hand then arpeggiates through the triad in the middle register, producing the forest greens and olive tones that dominate the central canvas. When the melody enters in the upper register — marked *\*Andante sostenuto\**, gentle and singing

— the greens brighten toward yellow-green and the yellow of E appears at its most luminous. The painting's tonal gradient from dark lower-left to bright upper-right traces this registral unfolding.

### REFERENCES

- [1] Quercy, A. (2024). B Major - Research on Harmony - Variation 2 (AQC0692). Synesthetic Explorations collection. <https://arnaudquercy.art/media/2024/01/b-major-research-on-harmony-variation-2-acrylic-by-arnaud-quercy-aqc0692-7p6.webp>
- [2] Quercy, A. (2025). ORCID <https://orcid.org/0009-0000-2662-7790>
- [3] Chopin, F. (1837). Nocturne in B Major, Op. 32 No. 1.

### EPISTEMIC PROFILE

<b>Claim type</b>	artistic statement
<b>Voice</b>	first person
<b>Epistemic status</b>	embodied knowledge
<b>Methodology</b>	pitch register to brightness mapping
<b>Certainty</b>	high

### CHECKSUM (SHA-256)

1e2c4b14b53cf8768268cf90b9500ab89f3a761a86708f80c-c9f1230ec7b0cf1

<b>Artist</b>	Arnaud Quercy
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