

Luxtriplicata - Project Description - Johan Fredrik Källman

Synopsis:

Luxtriplicata is a family-friendly interactive light installation that showcases what happens when light, art, and science merge to become something playful, engaging, and inclusive. Luxtriplicata encourages visitors to engage in a hands-on experience, exploring the colors and patterns that appear when white light breaks through prisms. This installation comes to life through audience engagement, fostering an ongoing performance where visitors take center stage, actively shaping and creating the light-art themselves.

Physical:

The installation is composed of a rotatable plate, upon which cube-shaped glass prisms are arranged. Positioned on a table, the plate is accompanied by a white light source. When white light breaks through the prisms all colors emerge from the color spectrum. (Violet, Indigo, Blue, Green, Yellow, Orange and Red.) These colors and patterns are being projected on the plate and the surrounding environment, creating a 360-degree immersive experience for the audience.

Eco-Friendly Technology:

Inspired by environmental responsibility, Luxtriplicata advocates for eco-friendliness. Powered by only 3 rechargeable AAA batteries, its LED flashlights reduce energy consumption, minimizing the installation's environmental footprint. With just 1 kWh, the flashlights can be charged approximately 50 times, demonstrating minimal energy consumption. Luxtriplicata demonstrates how significant visual impact can be achieved with minimal energy consumption and aligns with sustainability values.

Concept:

The defining feature of this installation lies in granting people the freedom to interact and play with it. I aim for the work to arouse experimental enthusiasm and curiosity by encouraging spontaneous play with the prisms. Additionally, it allows people to explore and experience this scientific light phenomena through art beyond the traditional settings of schools or laboratories. Nevertheless, the artwork is not limited to those who interact directly with it. The vibrant and immersive projections of the prisms also enable people to appreciate this installation from a great distance.

History and Inspiration:

The history behind Luxtriplicata is an aspiration to create something that could bring people closer to light itself and somehow foster a sense of connection with it. I've always drawn inspiration from the natural phenomena of our world, particularly the rainbow. It's for this reason that prisms naturally emerged as the perfect center point of this project. This installation embodies my pursuit to facilitate interaction and play with the elements of the rainbow: light, color, and a touch of magic.

Luxtriplicata draws its inspiration from the theme of mother nature in light. It's a homage to the breathtaking phenomena orchestrated by the natural world. Reflecting the iridescence of the rainbow, Luxtriplicata's design is deeply rooted in the mesmerizing interplay of light and reflection inherent in nature. Through its carefully crafted design, it not only creates a stunning visual spectacle but also prompts viewers to reflect philosophically on the beauty and scientific principles intertwined within.

Embracing Natural Light:

Luxtriplicata can be interpreted as a response to the overflow of high-tech equipment frequently utilized in light art. This installation is rather the opposite and stands as a counterbalance to this computerized overflow, emphasizing the power of alternative forms of expression. Unlike the common data-driven technologies within this context, Luxtriplicata relies on analog techniques rooted in the phenomena of reflected light, offering a serene and physical experience.

I aim to initiate a conversation about the potential for visually impactful creations rooted in natural light, while using minimal electric power and without relying on computers and projectors. I want to demonstrate that artists working within this medium don't need a significant financial investment or high-tech equipment.

Unlike traditional light installations where spectators' often are mere observers, Luxtriplicata invites them to become active participants in the art. By physically interacting with the installation, rather than passively observing, they immerse themselves in the creative process. In this way, Luxtriplicata not only celebrates the light but also fosters a sense of connection and empowerment among its audience

Artistic Aspects:

Imagine a world where anyone, from a curious 5-year-old to a seasoned physics professor, can marvel at the same piece of art. Picture vibrant "building blocks" that not only capture the attention of a young child but also serve as a sophisticated tool for understanding light and color theory for the academic mind. This is the beauty of Luxtriplicata: it's accessible and captivating at any level of understanding, from the simplest visual appreciation to the most intricate theoretical exploration.

With Luxtriplicata, I want to bridge the distance between audience - artwork - artist. By enabling visitors to physically interact with the installation, I aim to evoke feelings of joy, involvement and inclusivity. My own presence alongside the artwork during this event also enables me and the audience to engage in dialogue and interaction, an often overlooked aspect when a work of art is presented in the public. By making this encounter possible, I can explain to visitors the physical phenomenon behind the magical color spectra that emerge and share my inspiration behind the work. This is an element that has proved to be highly appreciated at previous presentations of the work.

Lastley, Luxtriplicata goes beyond being just an artwork, serving as a catalyst for connection and dialogue. Its presence encourages exploration, play, and appreciation of the beauty of light. My wish is to infuse a playful spirit, igniting a creative flame that illuminates the visitors.