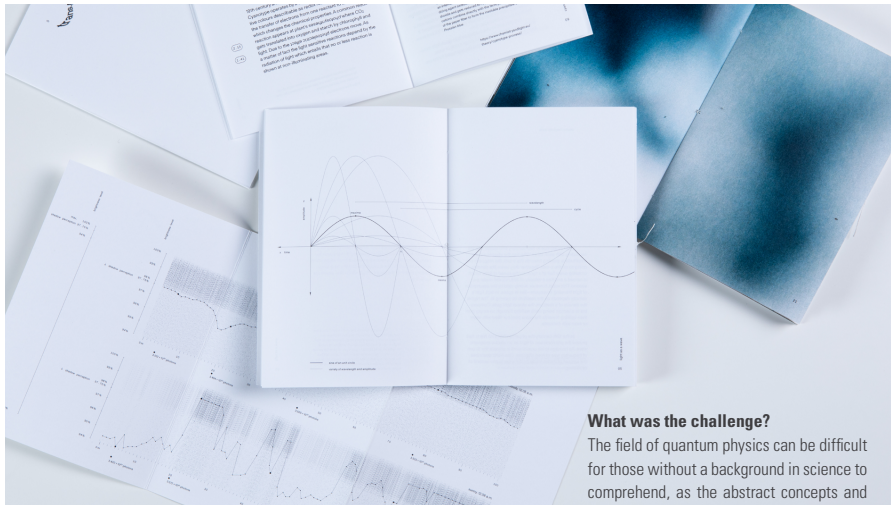
Category: **Bachelor and Masters**

Project: **trans.phlux—translating light**



What was the challenge?
The field of quantum physics can be difficult for those without a background in science to comprehend, as the abstract concepts and theories seem to be confined to the laboratory. While sciences aim to investigate and conduct research, creative disciplines often limit themselves to exploring the visual aesthetic.
Quantum physicist Richard Feynman once stated that his artist friend appreciated the superficial beauty of a flower, but did not grasp the deeper beauty inherent in its scientific structure.

In the specific case of light, physics came a long way to actually define what it is—a complex yet beautiful superposition in itself. But how can a Designer explore this deeper beauty and translate it for people outside of the science field?

trans.phlux

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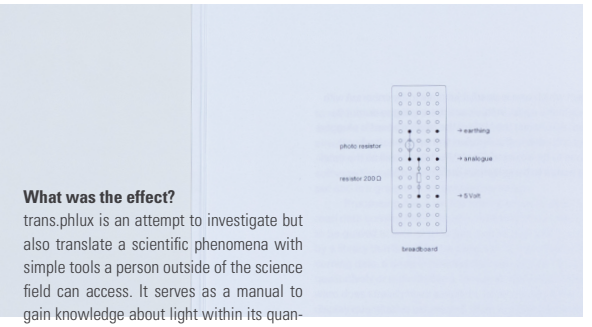
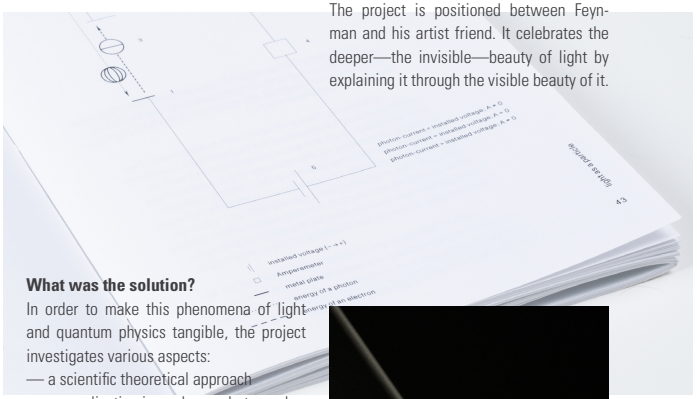


What was the effect?
trans.phlux is an attempt to investigate but also translate a scientific phenomena with simple tools a person outside of the science field can access. It serves as a manual to gain knowledge about light within its quantum mechanical theory but also how this is seen and utilized in one's every day life.

The project is positioned between Feynman and his artist friend. It celebrates the deeper—the invisible—beauty of light by explaining it through the visible beauty of it.



What was the solution?
In order to make this phenomena of light and quantum physics tangible, the project investigates various aspects:
— a scientific theoretical approach
— an application in analogue photography
— an attempt to measure by using a photo-sensor and Arduino
— a manual to provide explanation for simple experiments based on the scientific theory

Organizing these aspects into chapters makes the topic easier to comprehend. However, the different approaches listed above are linked with each other to gain a profound understanding about the phenomena of light in various contexts.