

INVESTIGATION OF FORM AND FUNCTION IN A COMPLEX PRODUCT WITH THE AIM TO SIMPLIFY IT TO ENHANCE THE USERS EXPERIENCE. THE PROCESS IS CARRIED OUT BY THE EXAMPLE OF A DESK TABLE LIGHT FOR THE HOME OFFICE.

The main goal of this project is to find out if a complicated product can be simplified in their properties, which are these properties and finally to incorporate these properties in the design of a new product.

Basically a product consists of form and function. Depending on the requirements of a product, both factors can already cause complexity for its development process and its usage. A product which contains furthermore of technology can enlarge the complexity even more.

The chosen product area is the lightning industry since lamps are driven by form, function and technology. The outcome is a desk table lamp for the home office, which is evaluated in form, function and technology. The form is reduced to their necessities, the function clear and easy to understand and smart technology is used to enhance the users experience. The research covers various areas to reach a broad understanding of physical, visual and psychological demand of the user and a product. Additional, methods like user questionnaires, product testing and user experiments deepened my understanding and knowledge which demands and problems cause a desk table lamp.

But how can I reduce the complexity of a product? A complex product is nothing more than the sum of its parts and can be understood by defining its individual components separately. Through the initial separation of all single components and their evaluated function, a clear, clean and coherent product structure can be achieved. Later in the execution of

the product the single components engage in a new way to a complete and coherent product. The coherence and likewise separation of all components are visible and clear to understand.

The users experience with the lighting product is achieved through a clear visible indication of their function and a clean form language. The coherence of the components are clear, despite the disengagement of all parts. The complex product enables a simplified user experience.

