

**יזרעל פולס**

Terms & Definitions:

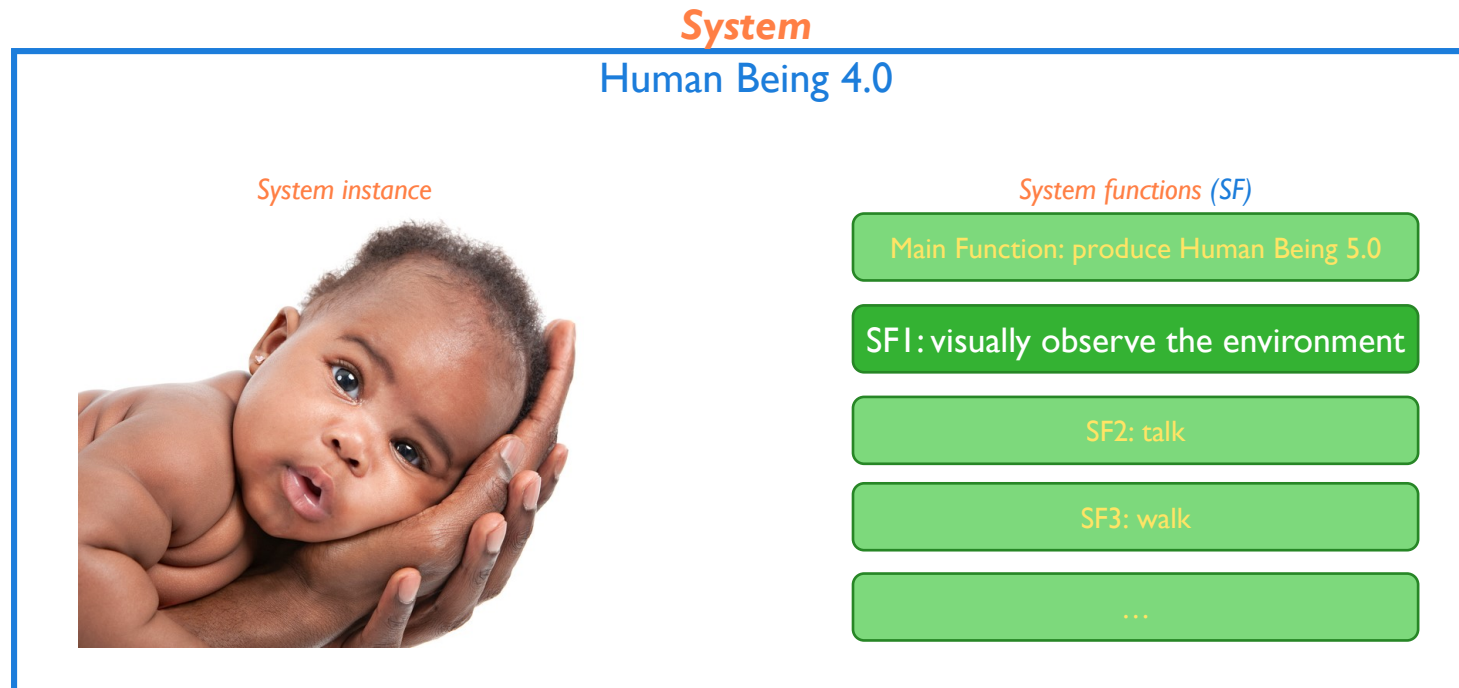
# System Functions

# Terms & Definitions



- A **Function** of a System (a.k.a. Capability of a System)  
Something a System **can do**.

Let's consider a human being as a **System**, with “visually observe the environment” as one of the System Capabilities or **System Functions (SF)**.



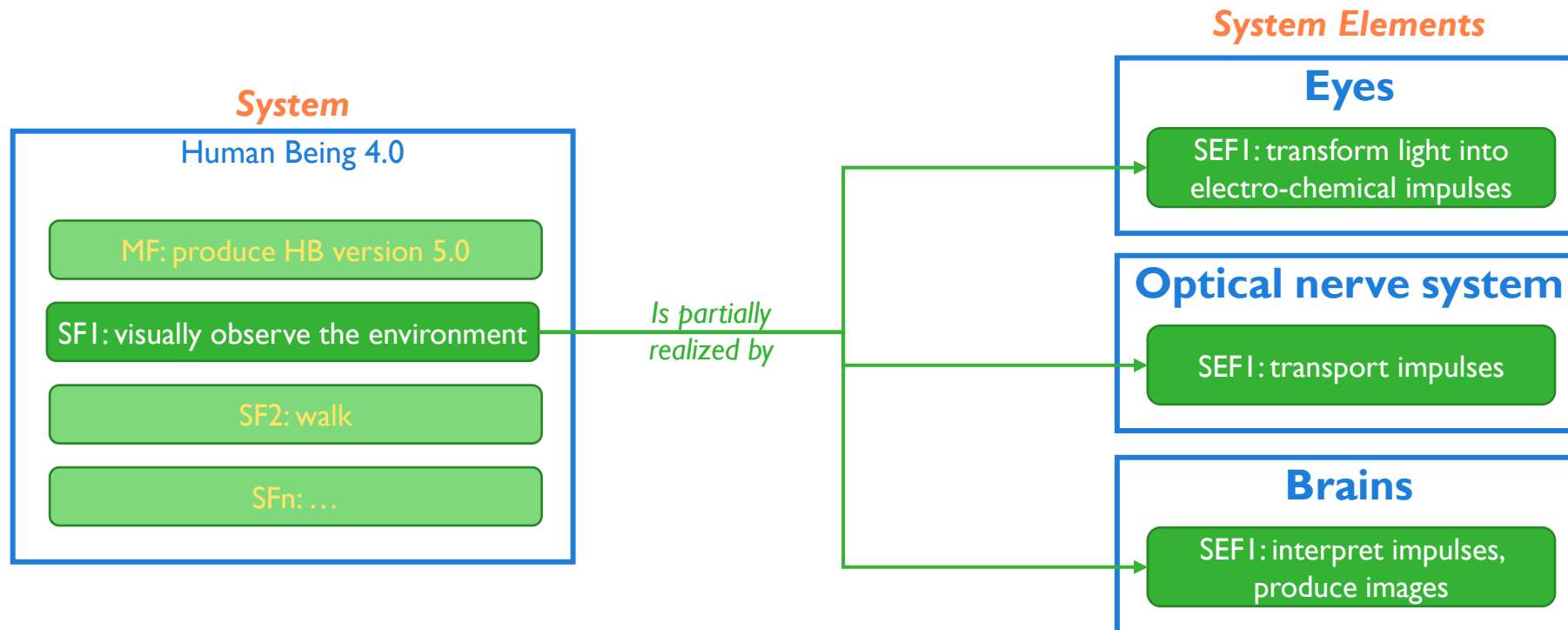
# Function



Let's consider the design of the function "visually observe the environment".

Several parts (System Elements) of the human body (our System) are required to realize the Function. In other words: not one single System Element can fulfill the System Function.

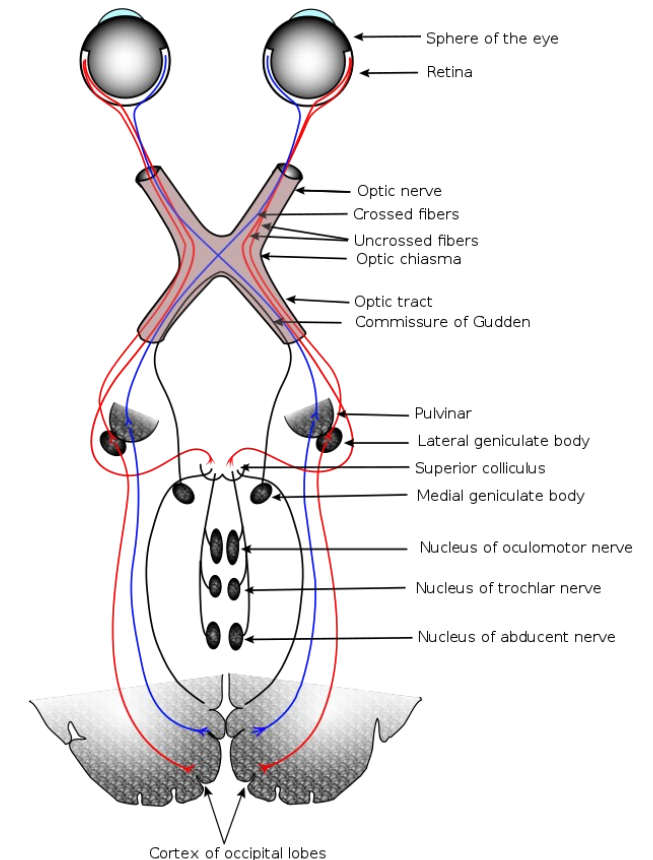
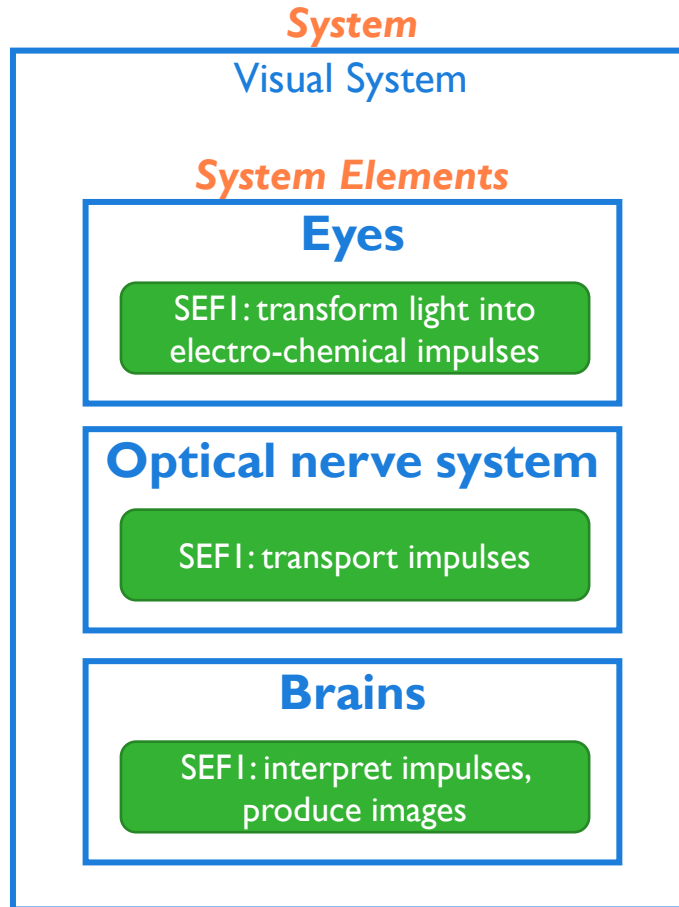
Based on the chosen design, the functional breakdown looks like:



# A system's perspective: the visual system



Sometimes the System Elements that together realize a System Function are seen as a System, in this example it is called the Visual System of humans. From the Visual System's perspective, the human being is a System of Systems.



[https://en.wikipedia.org/wiki/Visual\\_system](https://en.wikipedia.org/wiki/Visual_system)