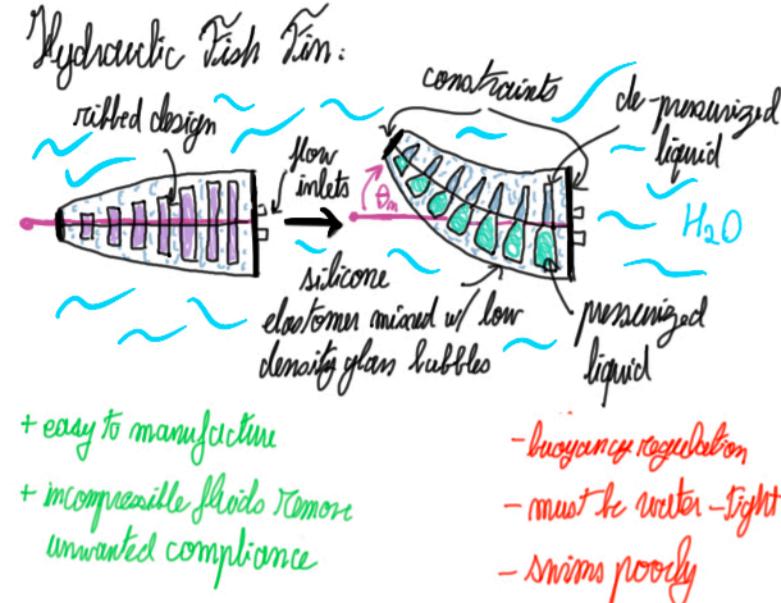
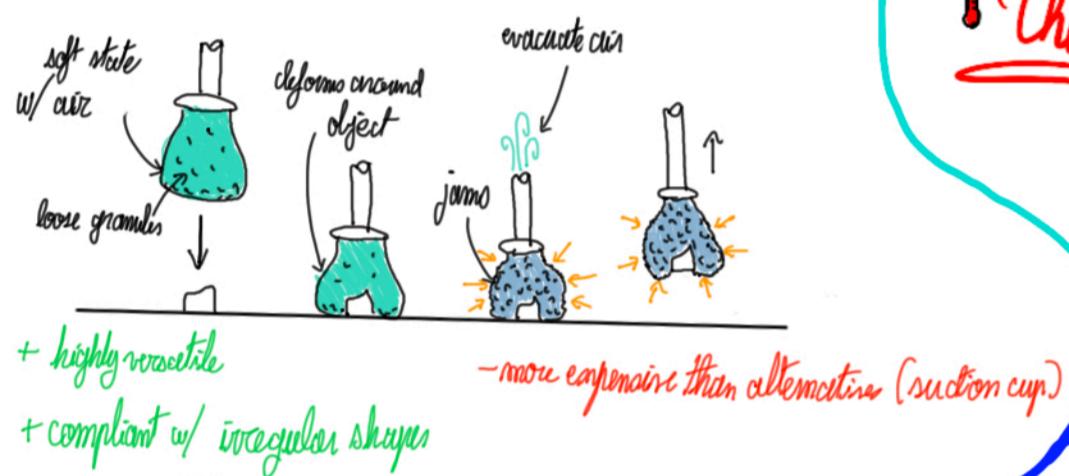


# Soft and Biohybrid Robotics:

## Assignment 1: Matthias Heyman

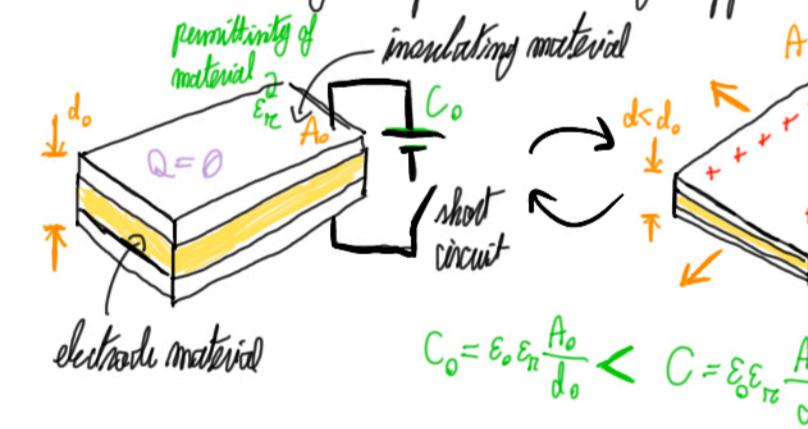


### Granular Material Grappler:

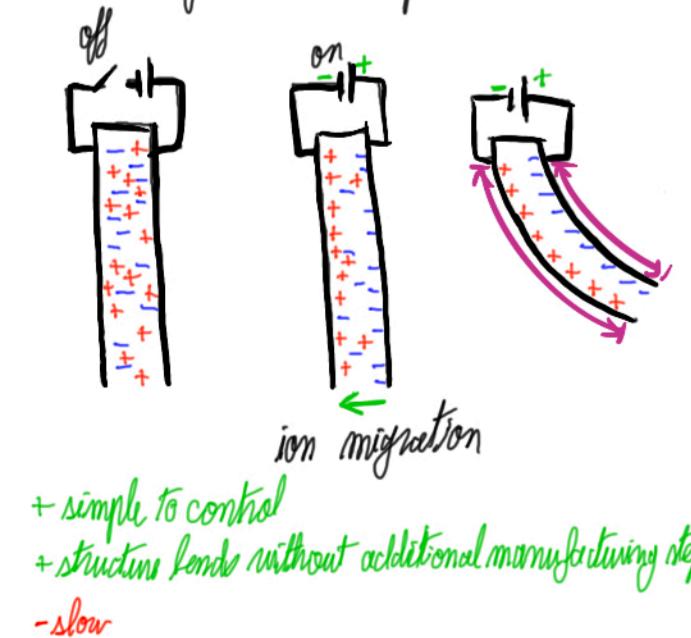


### Electric:

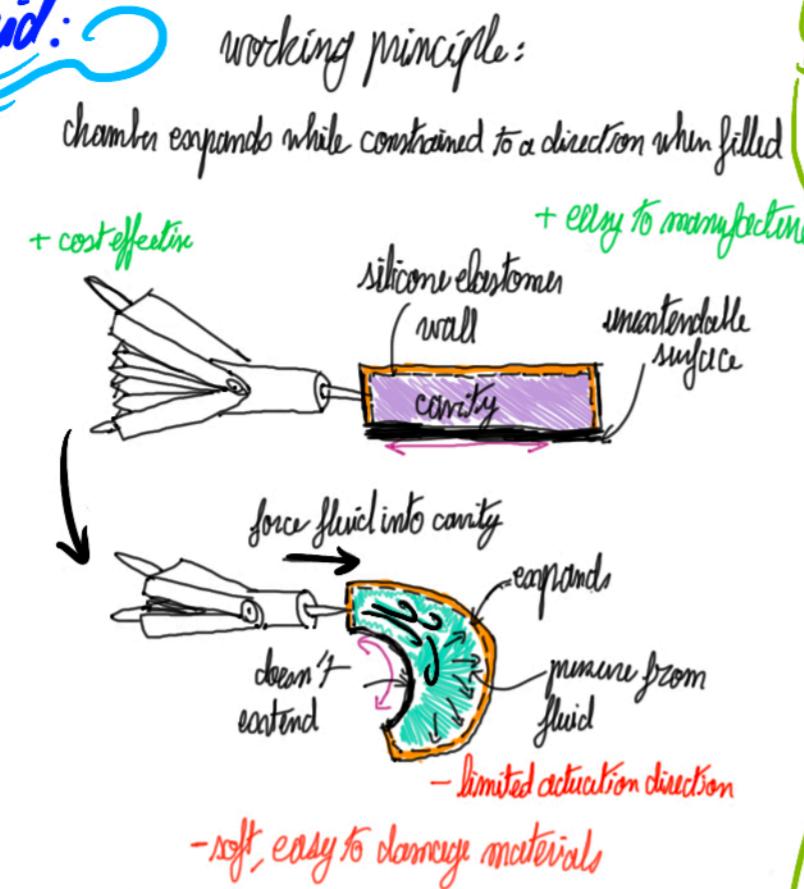
Working principle:  
material changes shape when voltage is applied



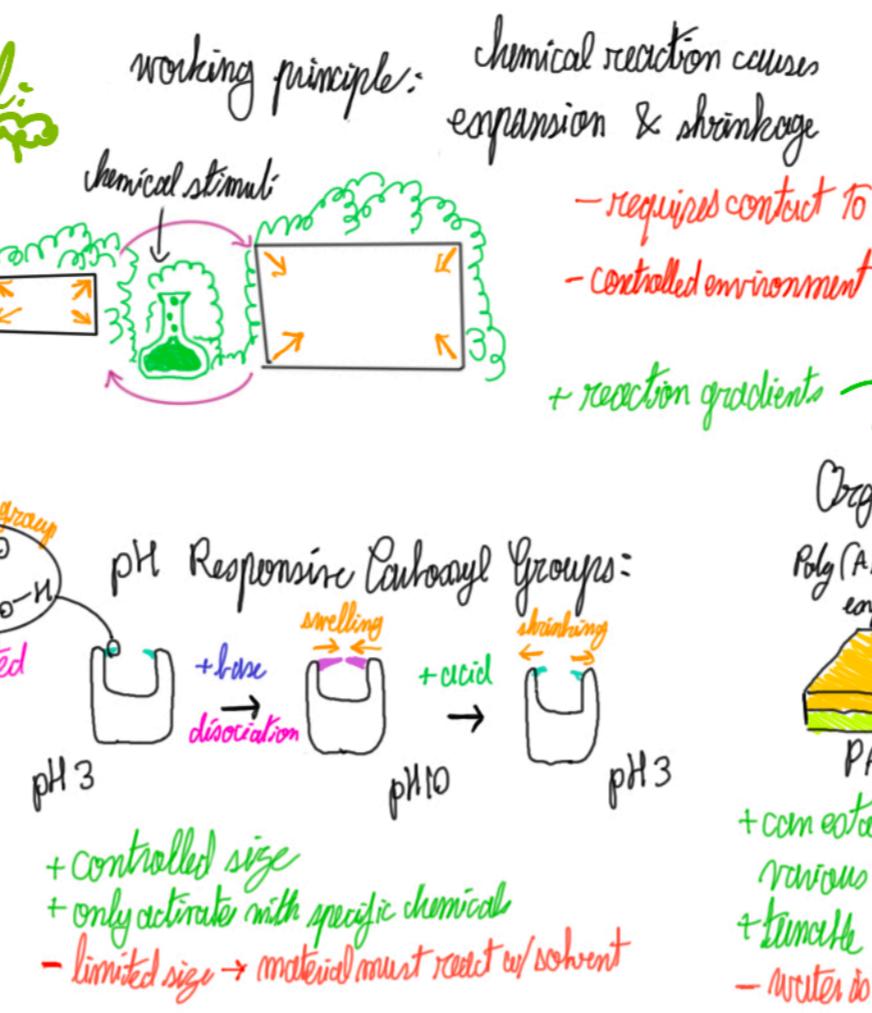
### Tonic Polymer-Metal Composite Actuators:



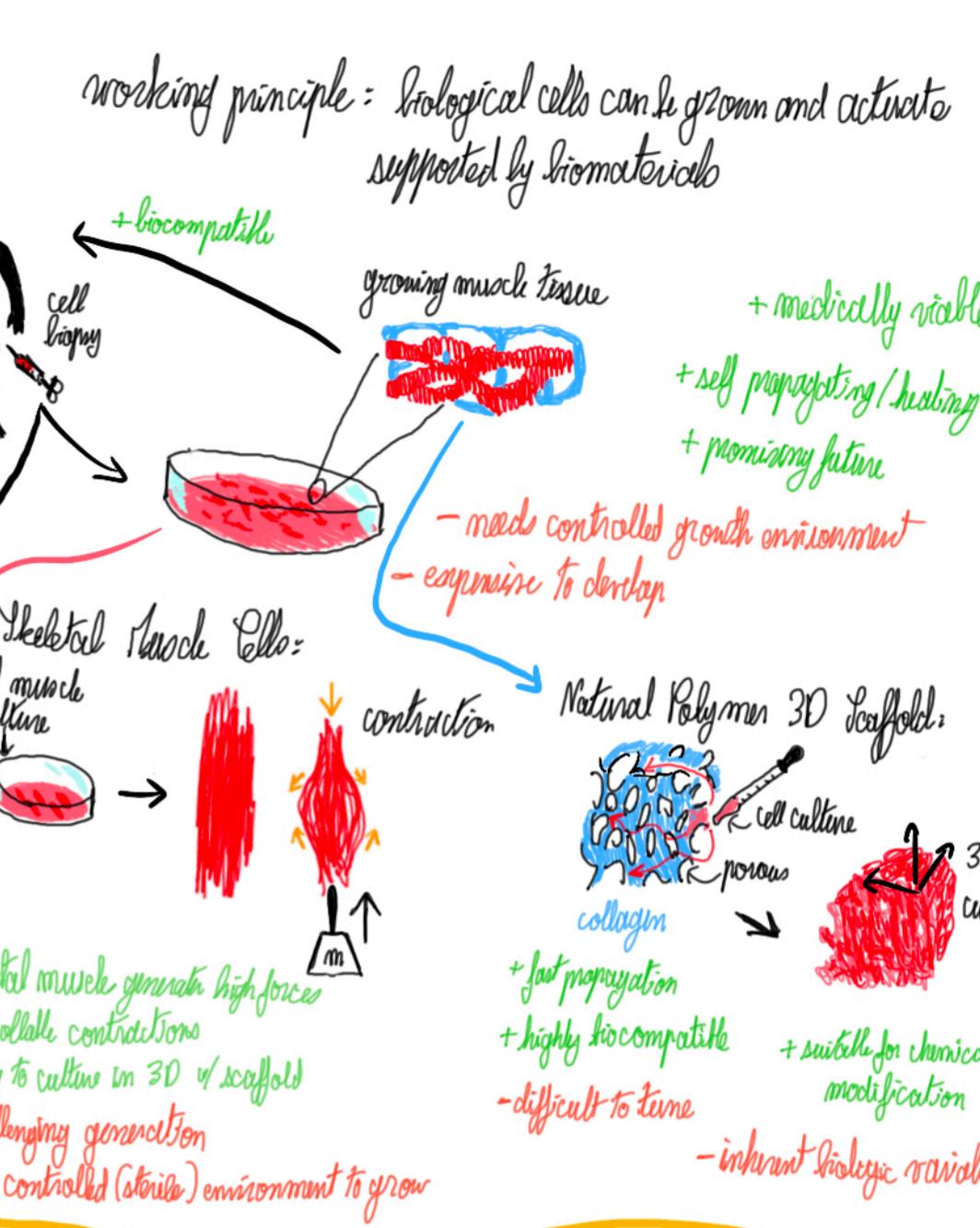
### Fluid:



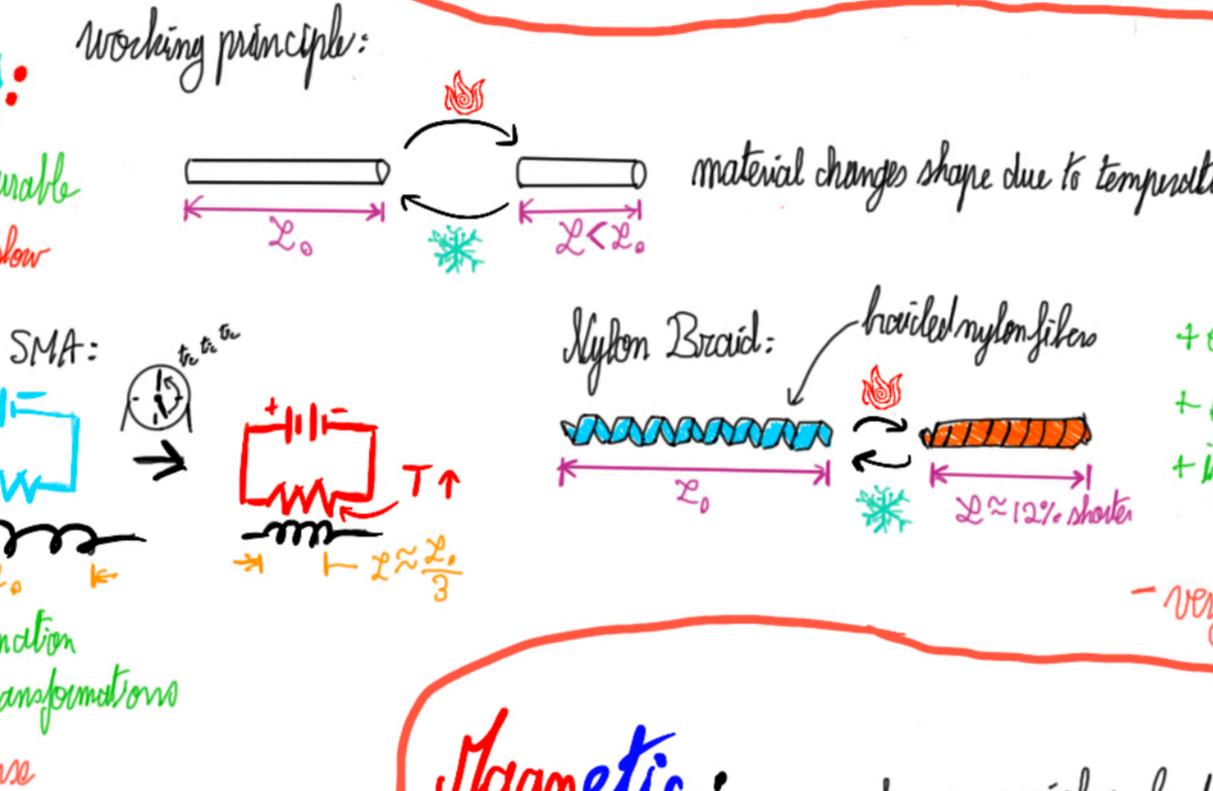
### Chemical:



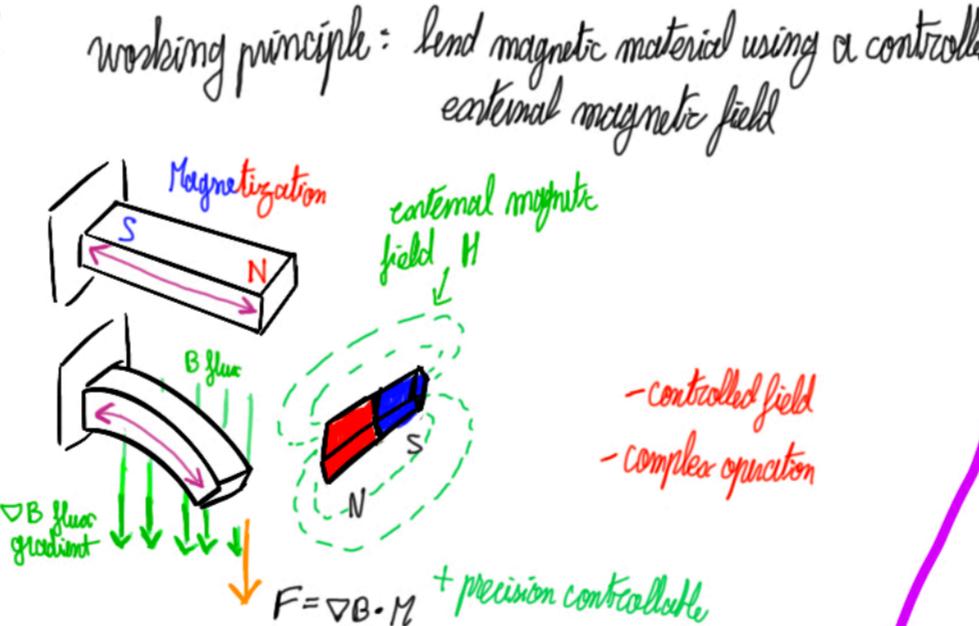
### Biologic:



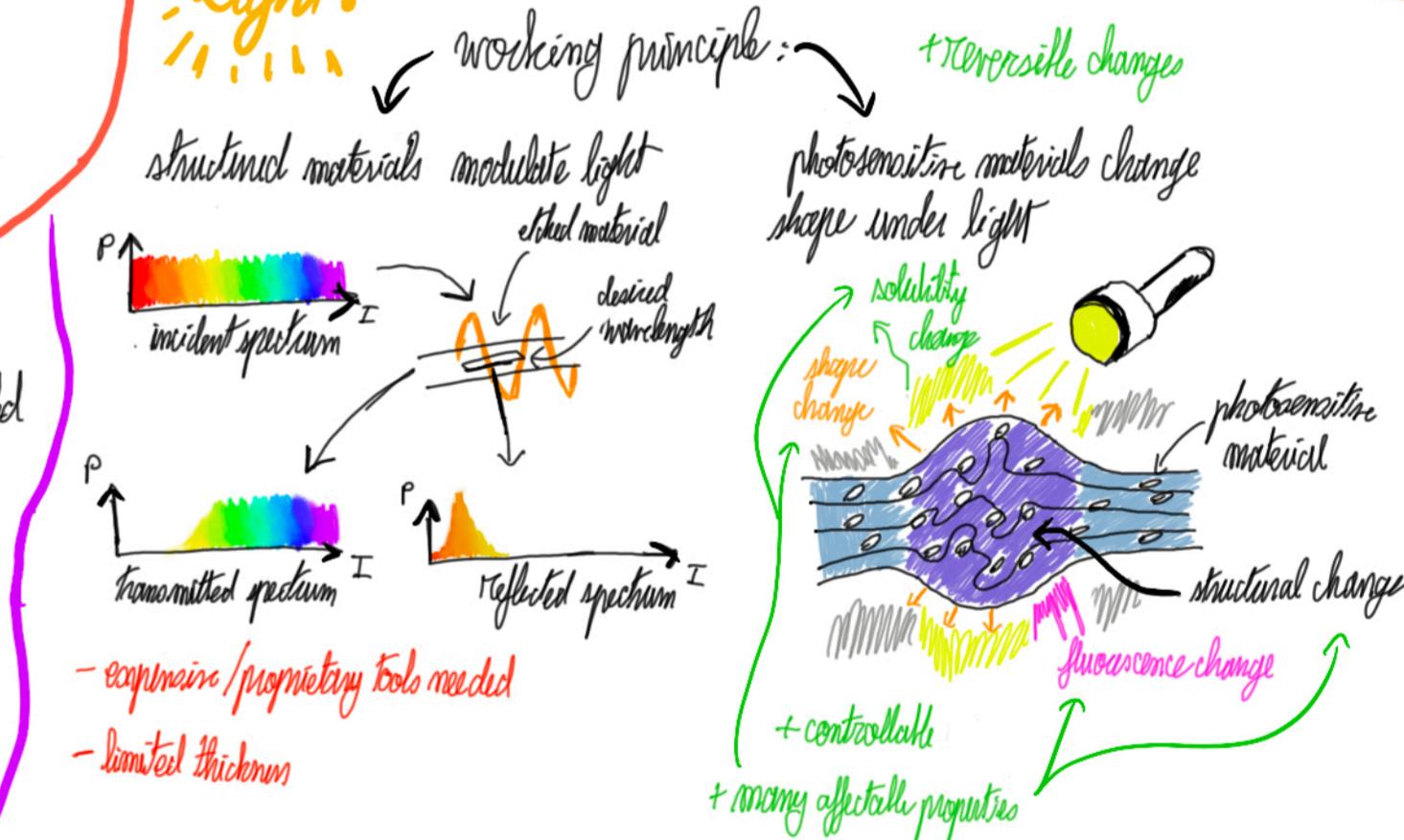
### Thermal:



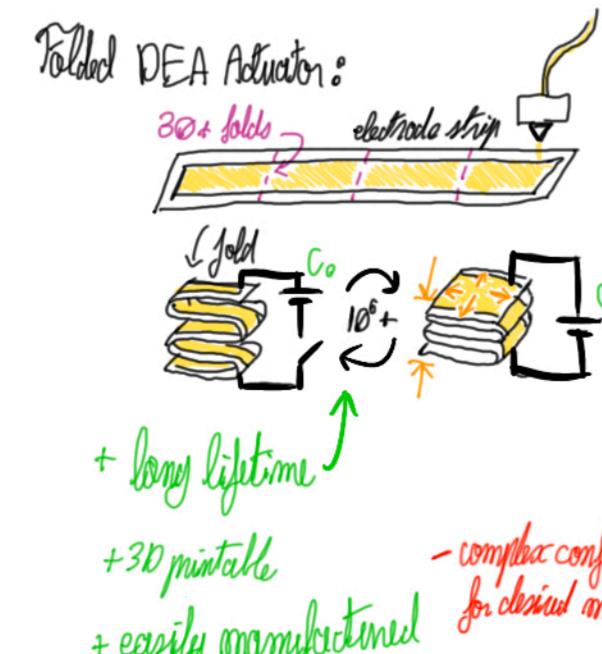
### Magnetic:



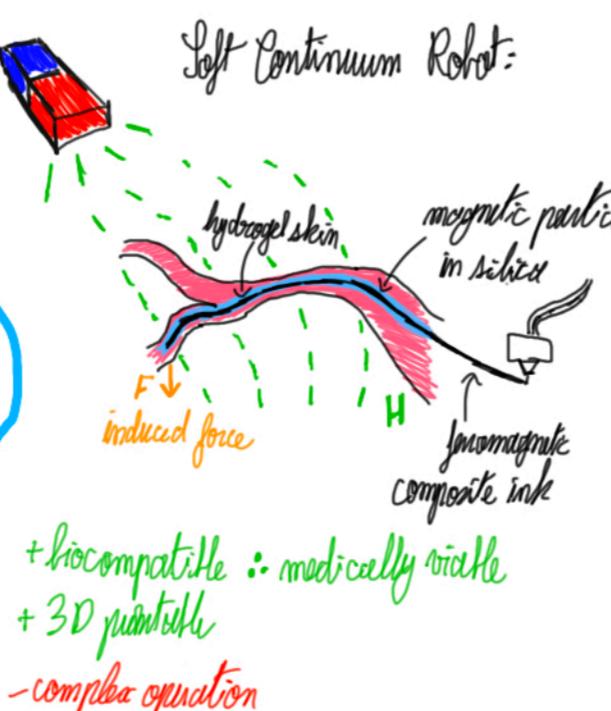
### Light:



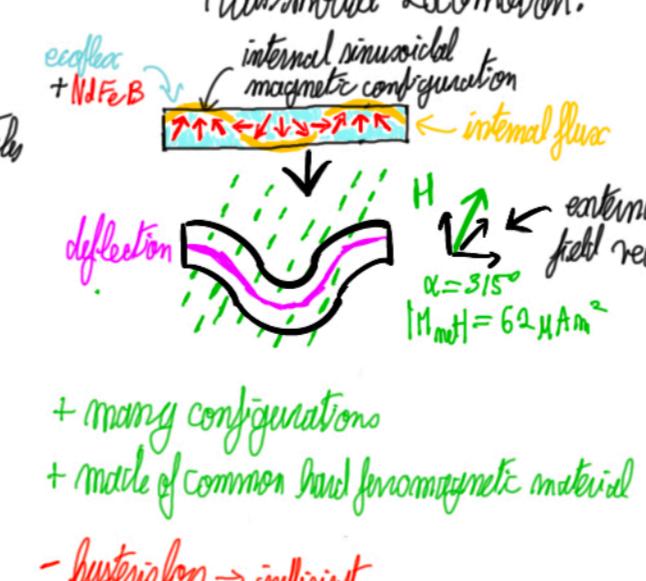
### Folded DEA Actuator:



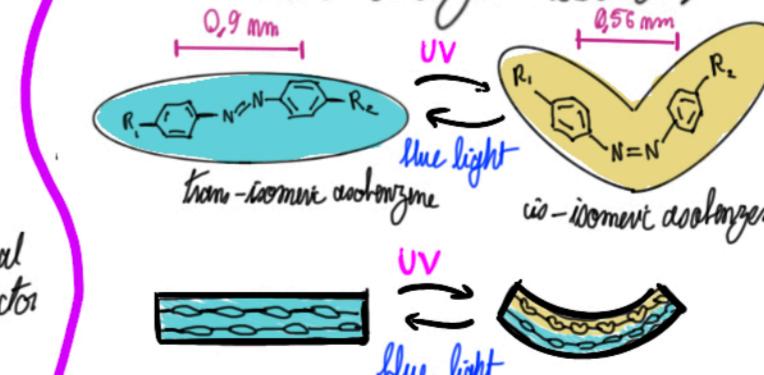
### Soft Continuum Robot:



### Multimodal Locomotion:



### Photoisomerizable Molecules:



- + complex motion
- + controllable through structured light
- controlled (light) environment

### Photoreaction Molecule:

