

Soma Bits *for (re)creating the existing and the yet-to-exist*

Position Slides

Body × Material Workshop @ CHI23



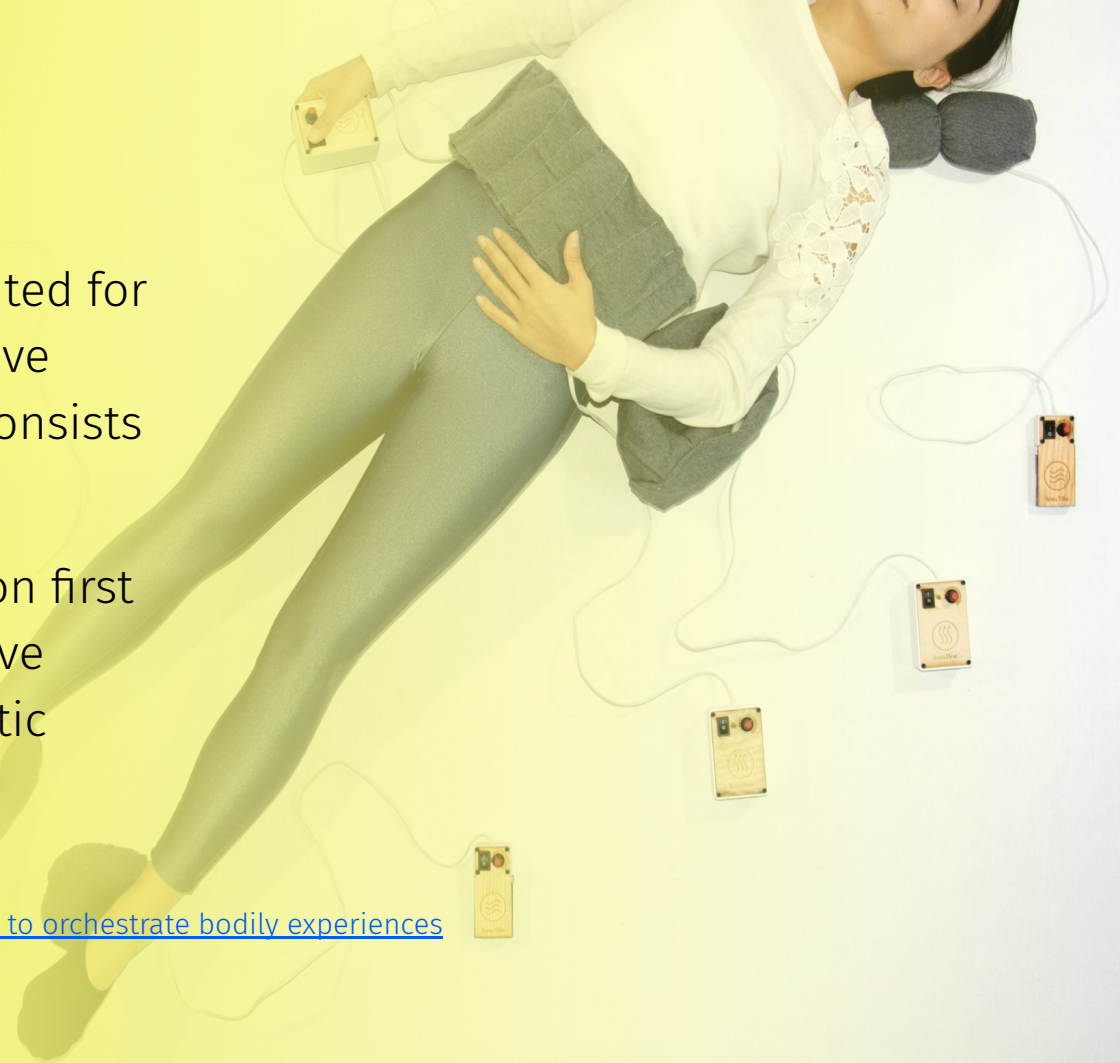
Charles Windlin
KTH Royal Institute of Technology

Soma Bits Toolkit

Soma Bits - a simple toolkit suited for somatic sketching in a explorative first-person design process. It consists of actuators and shapes. They:

- Allow experiencing actuation first
- Are malleable and generative
- Enable sketching out somatic experiences

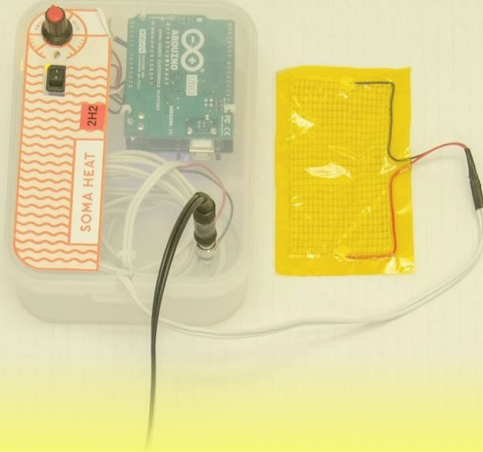
Windlin et al. 2019. [Soma Bits: Mediating technology to orchestrate bodily experiences](#)



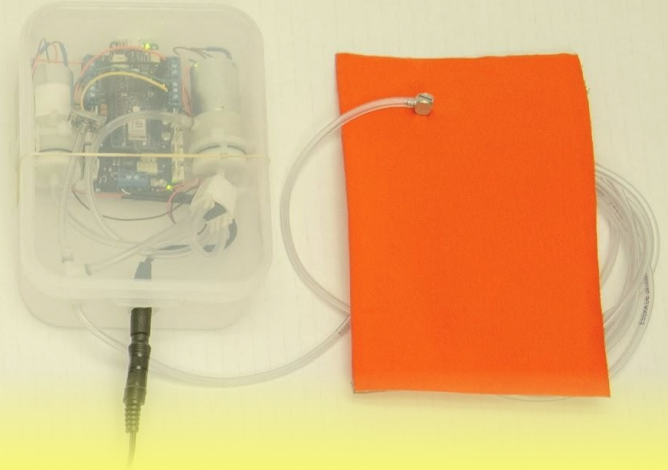
Soma Bits Toolkit | Actuators for Somatic Sketching



Haptic actuator
tactile



Heat pad
thermal



Inflatable
proprioceptive

Soma Bits Toolkit | Soma Shapes

soma shapes are foam shapes with compartments for the actuators

*An evocative material for a
explorative first-person design
process*



Soma Bits in Use | Exploring Somatic Experiences

Windlin et al. 2022. [SKETCHING SOMA BITS](#)



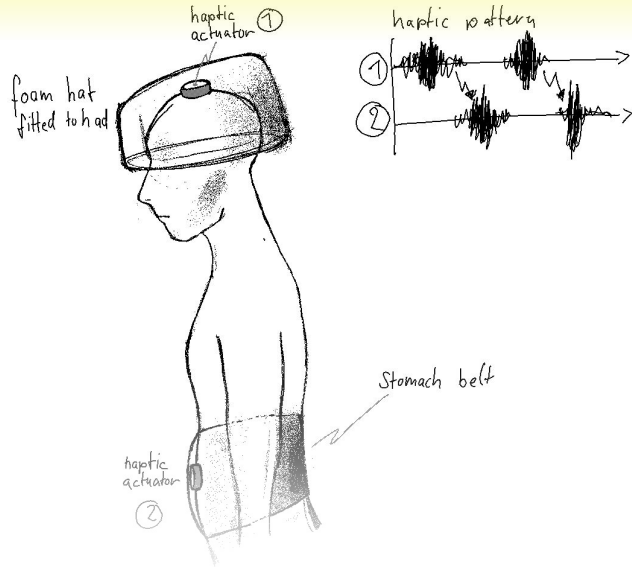
Soma Bits in Use | Sketched out Somatic Experiences

Avila et al. 2020. [Soma Design For Nime](#)



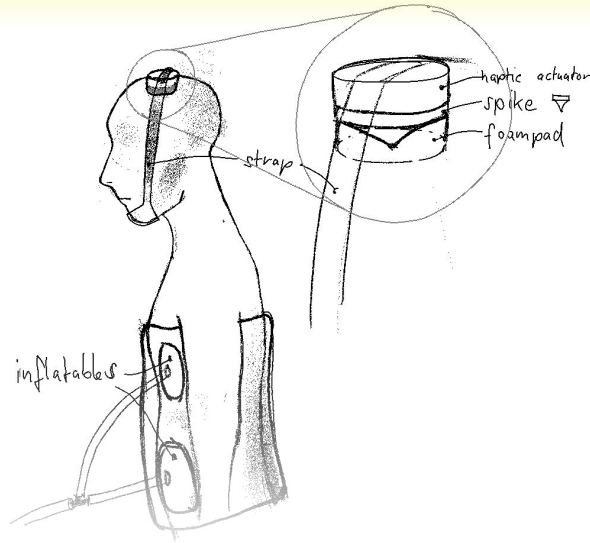
Soma Bits in Use | Sketched out Somatic Experiences

Windlin et al. 2022. [SKETCHING SOMA BITS](#)



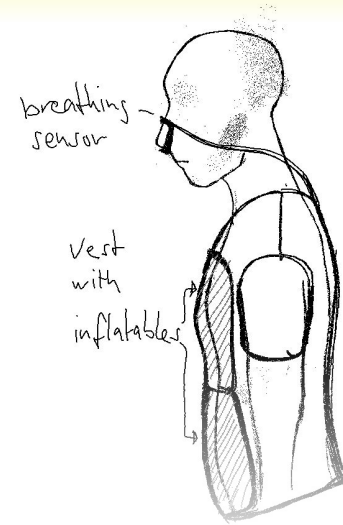
Jolt

Suddenly awakened by stressful running thoughts



Hemikrania

A personal account of how a migraine feels



Joy of Release

How to breathe to release anger

Soma Bits × Body × Material @ CHI23

Showcasing the next iteration of the soma bits toolkit for coupling sensing and actuation to sketch out orchestrated somatic experiences

Interest in discussing *interactive haptic materials* and how to make them sketchable?

Connecting with other material enthusiasts!

