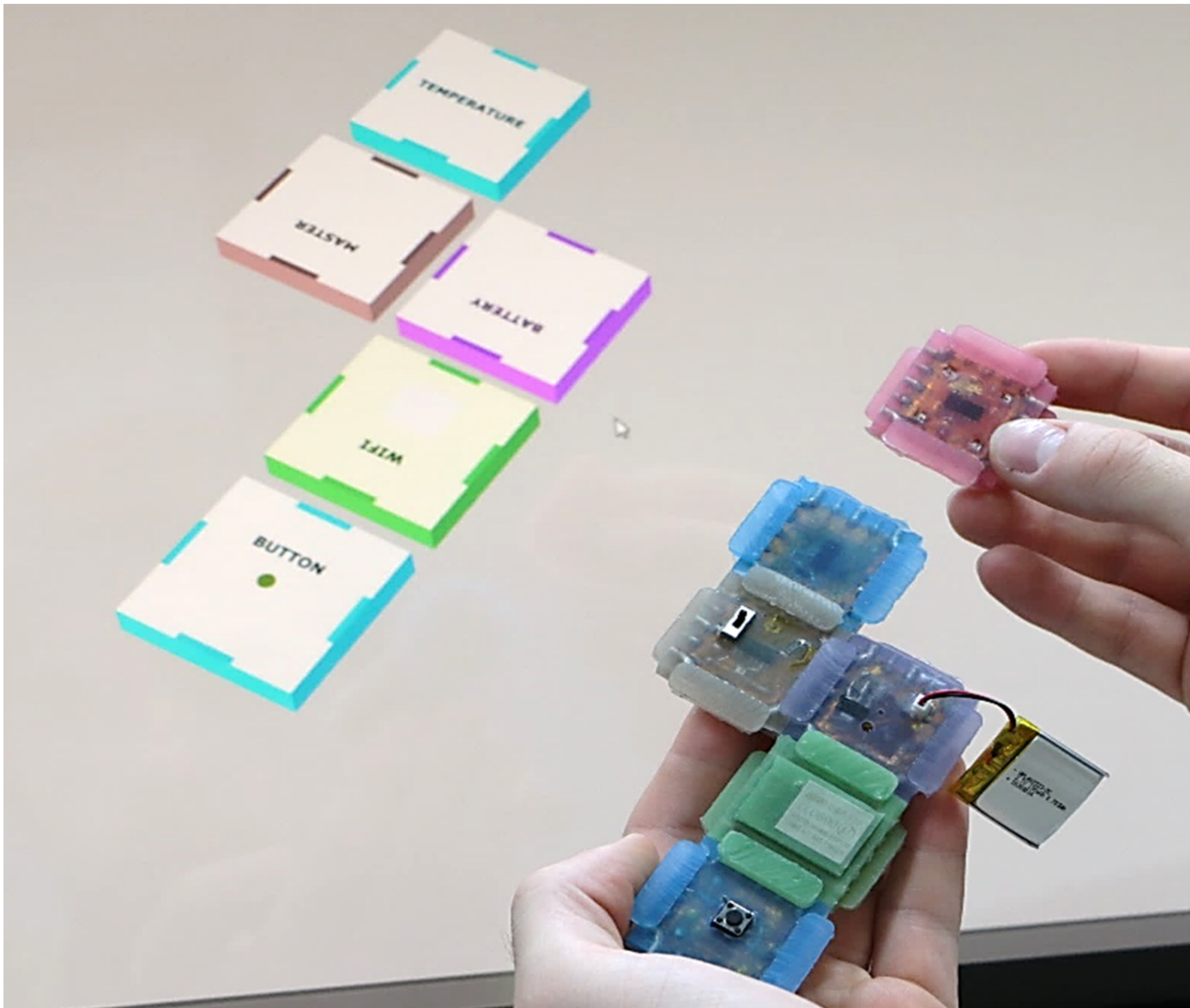


# SoftMod: A Soft Modular Plug-and-Play Kit for Prototyping Electronic Systems

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We present **SoftMod**, a novel modular **electronics kit** consisting of **soft and flexible modules** that snap together. Unlike existing modular kits, SoftMod **tracks the topology** of interconnected modules and supports **basic plug-and-play behavior** as well as **advanced user-specified behavior**. As such, the shape of a SoftMod assembly does not depend on the desired behavior and various 2D and 3D electronic systems can be realized. While the **plug-and-play** nature of our modules stimulates play, the **advanced features** for specifying behavior and for making a variety of soft and flexible shapes, offer a high-ceiling when experimenting with novel types of interfaces, such as wearables, and interactive skin and textiles.



**Topology detection:** one-to-one mapping between physical and virtual in the SoftMod IDE

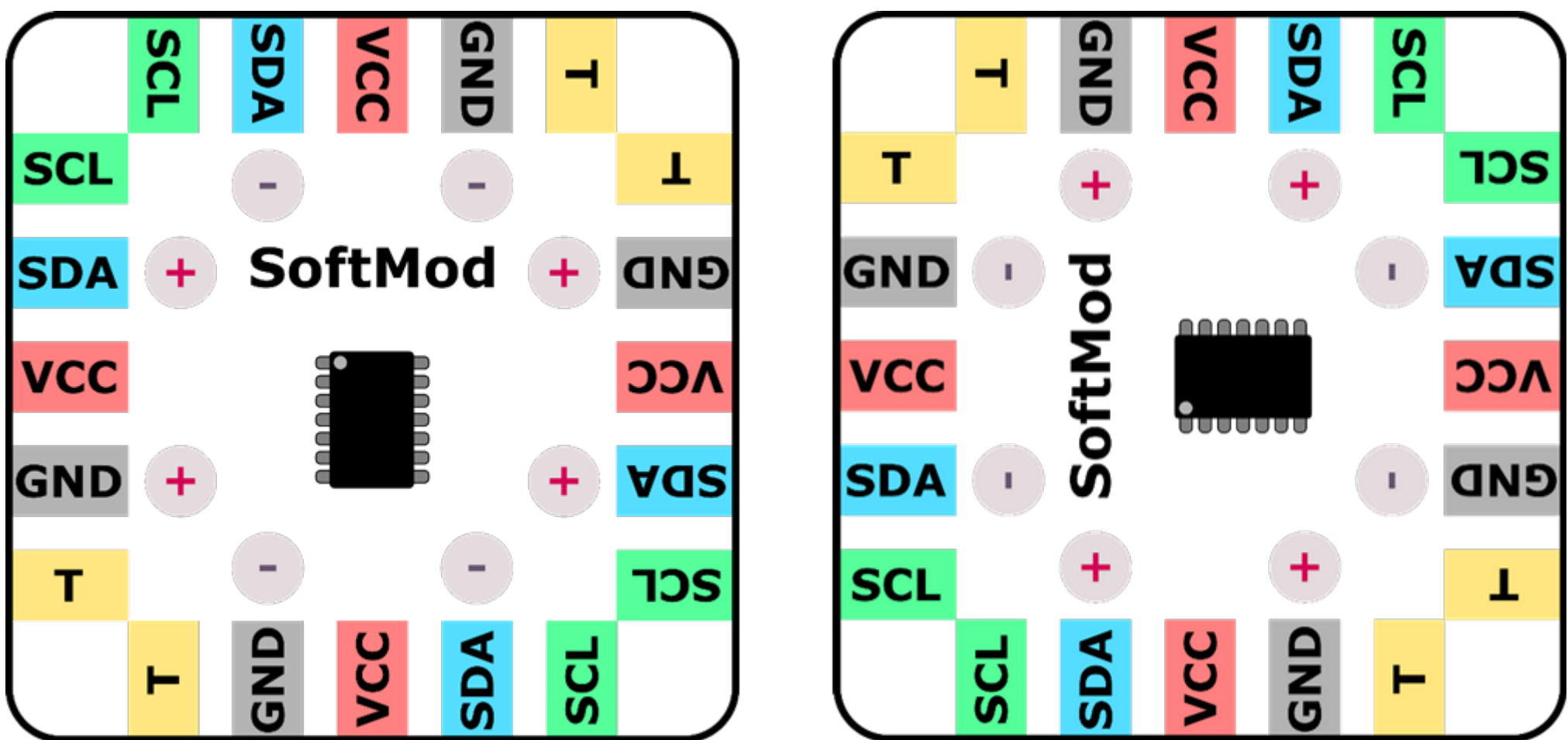
## SoftMod's Key Features

**Soft and flexible** modules, cables are also **stretchable**, adapter modules allow vertical **stacking**

One **programmable master** module in every assembly controls all logic

**Default or programmable behavior:** program by IFTTT, S4A or Arduino IDE

Fully **DIY** compatible



**Smart connector design:** magnets for snapping and short-circuit prevention

