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Tangible Media

December 7, 2017

Embeddables: The Next Evolution of Wearable Tech

Embeddables are tiny small computing devices that are implanted inside one`s body. It could be simply imprinted on surface of a user's skin to an inside of a user's digestive system. These device could potentially be a device that monitors a user`s health, improves a user`s functioning, or connects a user to the digital world. The purpose of these tiny computing machines is not set and is decided by the designer and what is the objective. Furthermore, embeddables are not a simple system. A user should be aware that these embeddable devices work in a symbiotic relationship with the body. Thus, the user needs to understand the subtlety and practicality of such device inside one's body, and the magnitude of social deviance. For instance, Google Glass may not be an embeddable but its materiality and affordance did not justify the social deviance, and the user experience and user input are not natural to the user. Nevertheless, embeddables are trying to eliminate these faux interactions and create subtle interactions and practical devices. Embeddables are the new technology that will enhance human`s capability and will leap beyond the current technologies such as screen base device. Before transitioning from the modern technology to embeddable, one has to understand the reason behind it. The act of embedding a computing machine inside someone is the mean of optimization or repair. Let`s be honest, the human body is fragile and is not perfect. Since the ancient time in different cultures, people have been modifying their body by tattoo or by piercing to optimize or repair their body. For instance, Otzi the iceman from 33,000 BC had the acupuncture tattoos which are believed as a healing method for their body. In the modern society, we adapt, more-or-less, similar practice. We get tattoo due to identity; what it means to the society or to the particular culture. Furthermore, we do use tattoos as a medium of optimization in the modern society. Today, tattoos are used to cover burn marks or scars. Embeddables will play beyond that; it will go beyond to a point that it will potentially "repair" us. In the field of medicine, Embeddables act as a prosthetic body part, as a sensorial restoration, as a health monitor, and as a body enhancement. Imagine someone who lost their hearing and it can be restored by implanting a device that captures sounds and transmits them to the brain. Imagine someone who could prevent a heart attack thought a device that monitors the body condition. And imagine someone who sees different spectrum of light that enable the user to see at night due to a device implanted in his eyes. The possibility is limitless and the application is not limited to medical field. It is applicable to anything that a designer could imagine from medicine to entertainment, social, games, communication, learning, and other else.