## Characteristics of Socially Acceptable Healthcare Devices

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No

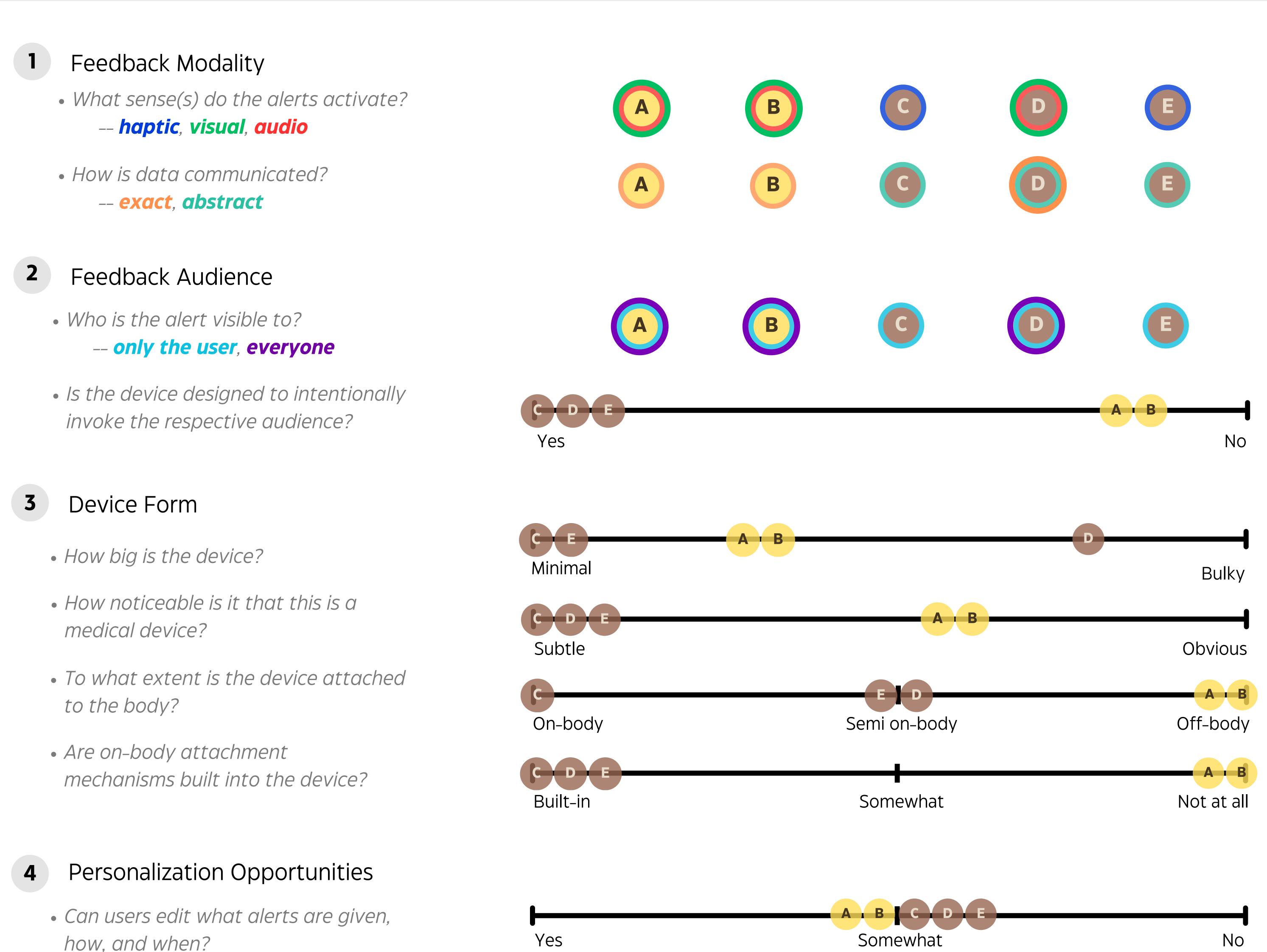
The current design of healthcare devices is often very medical, and therefore challenges their social acceptability for everyday wear.<sup>3,4</sup> We consider the particular case of glucose monitors, where factors like how they function, how individuals feel when interacting with them, and their aesthetics define how socially acceptable they are.<sup>1,2</sup>

We consider characteristics of commercially available and participant-designed glucose monitors.

Can users change the device's aesthetics?







In contrast to wearables generally, the social acceptability of a healthcare device primarily concerns the device user. Our comparison highlights the need for providing device users with control and freedom over how their healthcare devices look, are used, and function, given their need for continued use regardless of audience, environment, or context. Given this focus on device users, our future efforts will explore questions such as how much control do users currently have over different aspects of their devices, how much control might we be able to provide them with, and how much flexibility do they have when it comes to engaging in designing their devices.

Somewhat

Yes

<sup>1.</sup> Erman Akyol, Roberta Cabral Cabral Ramos Mota, and Sowmya Somanath. 2021. DiaFit: Designing Customizable Wearables for Type 1 Diabetes Monitoring. In Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems (CHI EA '21). Association for Computing Machinery, New York, NY, USA, Article 437, 1–6. https://doi.org/10.1145/3411763.3451716

<sup>2.</sup> Sabrina Lakhdhir, Chehak Nayar, Fraser Anderson, Helene Fournier, Liisa Holsti, Irina Kondratova, Charles Perin, and Sowmya Somanath. 2024. GlucoMaker: Enabling Collaborative Customization of Glucose Monitors. In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24). Association for Computing Machinery, New York, NY, USA, Article 127, 1–21. https://doi.org/10.1145/3613904.3642435

<sup>3.</sup> Betsy Phillips M.S. and Hongxin Zhao Ph.D.1993. Predictors of Assistive Technology Abandonment. Assistive Technology 5, 1 (1993), 36–45. https://doi.org/10.1080/10400435.1993.10132205

<sup>4.</sup> Kristen Shinohara and Jacob O. Wobbrock. 2016. Self-Conscious or Self-Confident? A Diary Study Conceptualizing the Social Accessibility of Assistive Technology. ACM Trans. Access. Comput. 8, 2, Article 5 (January 2016), 31 pages. https://doi.org/10.1145/2827857