**Faceted Data**

Read Schmitz et al (2016) article about faceted data.

* Do you think this is a good approach to protect systems from data leakage? What are the pros and cons?

The strategy of Schmitz et al. (2016) leverages faceted mutable reference data and establishes secure socket-like communication that is aware of such facets to protect information systems to less advanced attackers. Nevertheless, as the various behaviours shown to multiple users depending on their roles follow a specific distribution, considering repeated attempts of cyber-attacks, it may be possible to understand the underlying pattern of such faceted values via a more advanced analysis. Schmitz et al. (2016) used two levels of data monads in an attempt of preserving information flow security, thus encapsulating control effects and structuring faceted values too. So, whilst it may be a viable strategy to protect a user’s password on personal devices, it may not be recommended when enterprise-grade security is required, e.g., in regulated industries, such as finance and healthcare, for instance to protect credit history- and medical records-related information.

**References**

Schmitz, T., Rhodes, D., Austin, T. H., Knowles, K., & Flanagan, C. (2016, April). Faceted dynamic information flow via control and data monads. In *International Conference on Principles of Security and Trust* (pp. 3-23). Springer, Berlin, Heidelberg.