This talk is based on a joint work with Ingrid Daubechies and Shira Feigenbaum Golovin. I first explain the data of tooth surfaces where these data come from and why we pay an attention. Then I show some practical problems from the point clouds in $\mathbb{R}^3$. As these data are in surface triangulation format, some triangulation are not-perfect due to the damaged tooth and/or due to the process of generating them. Many defects will be shown.