This 3D printed adapter enables modern ergonomic toothbrushes to be mounted onto older ceramic build-in bathroom toothbrush holders. This adapter fits into some of the narrow slots (of the built-in toothbrush holder), hangs off the side and provides a place to put a newer toothbrush.

A few decades ago, all toothbrushes had standard size thin rectangular handles. Bathrooms were designed with places to mount a number of these toothbrushes. Since these rectangular handles were uncomfortable to hold, eventually they were replaced with wider ergonomic versions. These newer versions didn’t fit the old holders. This adapter solves that problem.

This was designed using Onshape. Using a single sketch, shown below, I extruded the design, also shown below, to make the finished product. Assorted chamfers and fillets were used to smooth the holder and make connections between sections more robust.