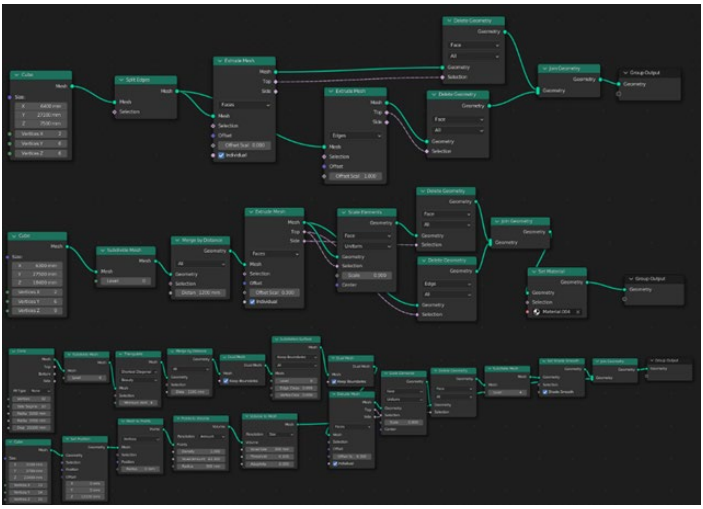

Fig. 7. Examples of the geometry nodes used for sketching

Summary

While most design processes are carried out in industry standard applications like ones from Autodesk, there is still room for improvement and experiments in the design pipeline. Using open-source applications with plugins that automate various stages of the design process can be a beneficial experience. While intuitive and easy to use, Blender can be suitable for the AEC field, being able to natively export models into the format recognizable by the other design environments. It can be utilized for creating quick parametric sketches of individual structures or whole complex facilities, amenity space improvements, decorative and structural elements, shells of custom shape and curvature, rendered visualizations, simulations and its boundaries of application may only grow wider with time. By integrating such a toolset into the traditional pipeline, it is possible to reduce time needed to create a number of options to choose from and to gain more opportunities in the parametric architectural design.

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