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Designing Coast Salish woven basket patterns using Jupyter notebooks

We describe the use of the Jupyter notebook framework to develop a tool aimed at modelling and designing patterns observed on Coast Salish woven baskets. This tool can be used as a teaching tool to introduce simple notions of geometry or by basket makers to design and visualize new patterns. This work, done in collaboration with Laura Gutierrez-Funderburk, Jenifer Pham, Howell Tan and Veselin Jungic. It was funded by the Callysto project, recently launched by the Pacific Institute for the Mathematical Sciences to promote the use of Jupyter notebooks in classrooms, and is part of a collaboration with the Tla'amin Nation.