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Quantum knot invariants come from interpreting knot diagrams as pictures of intertwiners of quantum group representations. Each knot can be decomposed as a linear combination of certain basic planar trivalent graphs called webs. We discuss some combinatorial results about sl<sub>4</sub> webs obtained during the Summer 2012 CSU Channel Islands REU. This work is joint with Ernest Guico, Jennifer Kenkel, Acadia Larsen, Briseida Trejo-Escamilla, and Madison Turbeville. (Received August 26, 2013)