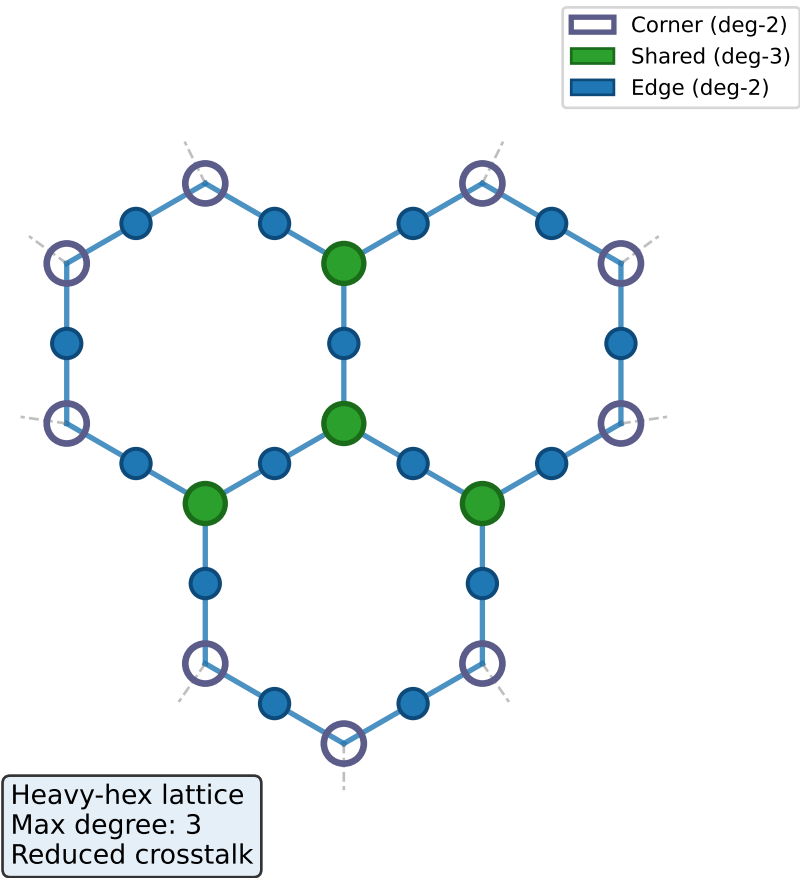
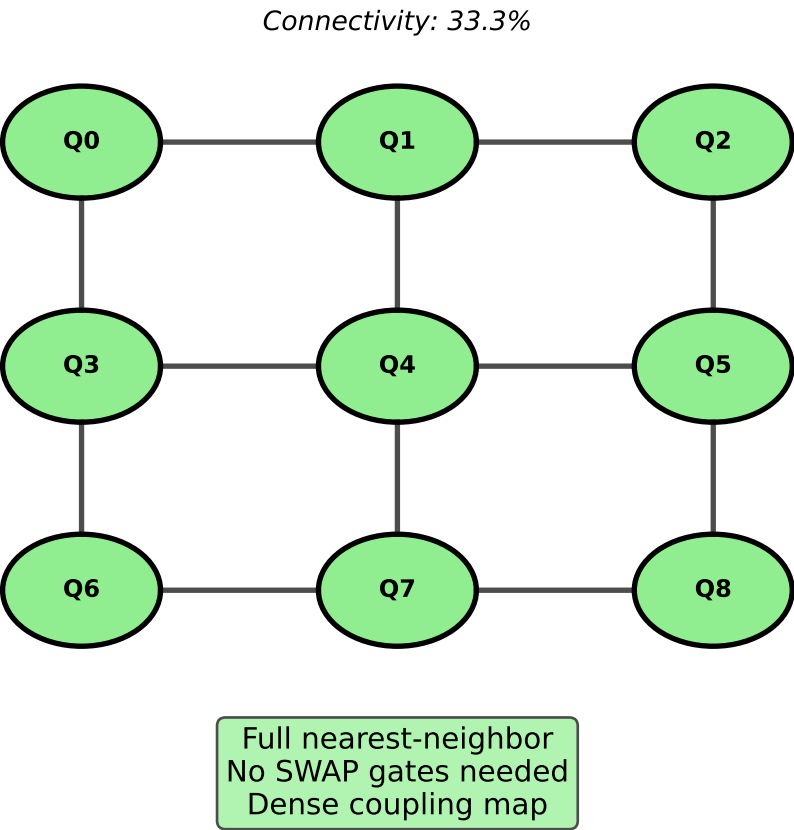


**(A) IBM Heron r3 Heavy-Hex Topology
(156Q fragment showing 3 unit cells)**



**(B) Rigetti Novera Square Lattice
(9Q full nearest-neighbor)**



Key Insight: Square lattice topology reduces gate overhead and improves sample efficiency