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## **Applications**

- ❖ Geometric packing & covering
- ❖ Wire and component layout in VLSI
- ❖ Motion planning, collision detection
- ❖ Solid modeling, computer graphics

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## Geometric Intersection

❖ Given two geometric objects,

determine if they have a non-empty common intersection

count the cardinality of their intersection set

enumerate the set of their intersections

construct the region of their intersection