

# Geometric Intersection

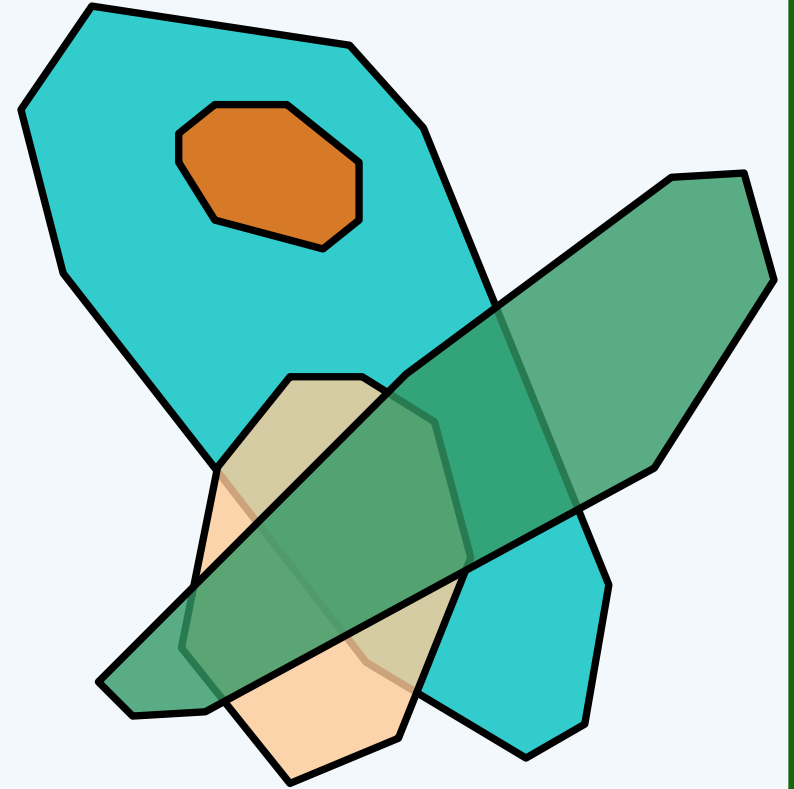
Detecting Intersection Between Convex Polygons  
- Problem Specification

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## Body vs. Boundary

- ❖ CPID: Given two convex polygons in the plane,  
determine whether they intersect
- ❖ Here we're interested in the intersection of  
polygonal **bodies**  
instead of **boundaries**
- ❖ So when a polygon is strictly contained in the other,  
the algorithm should still report an intersection



## Detection vs. Construction

❖ Here we are concerned only with

intersection detection

instead of construction

❖ Next let's present

Dobkin and Kirkpatrick's algorithm (1983)

