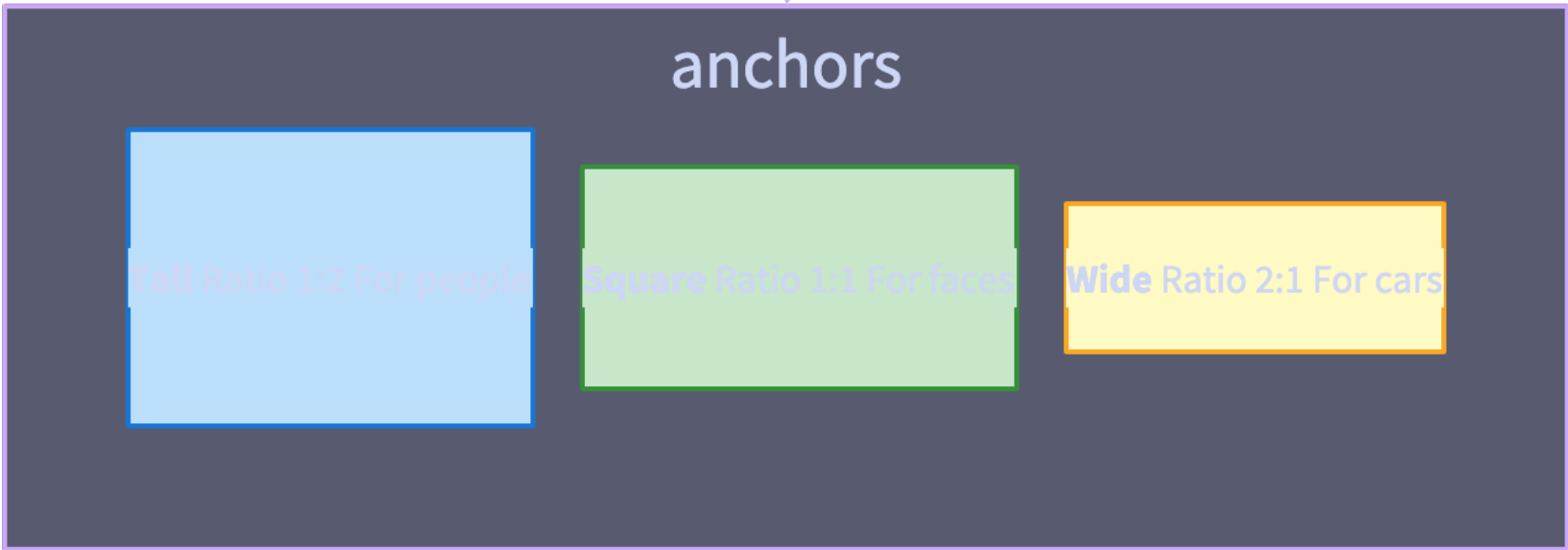


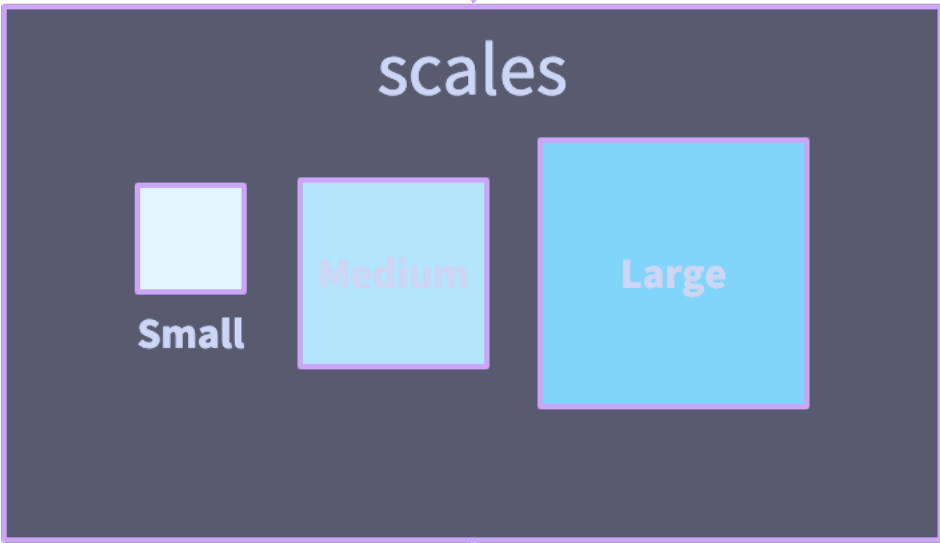
# Anchor Boxes (Shape Priors)

**Problem:** A grid cell might need to detect multiple objects or objects of very different shapes (tall person vs wide car)

**Solution:** Pre-defined anchor boxes of different aspect ratios and scales



× 3 scales



**YOLOv3+:** 9 anchors total (3 aspect ratios × 3 scales) Model predicts **offset from anchor** rather than absolute coordinates