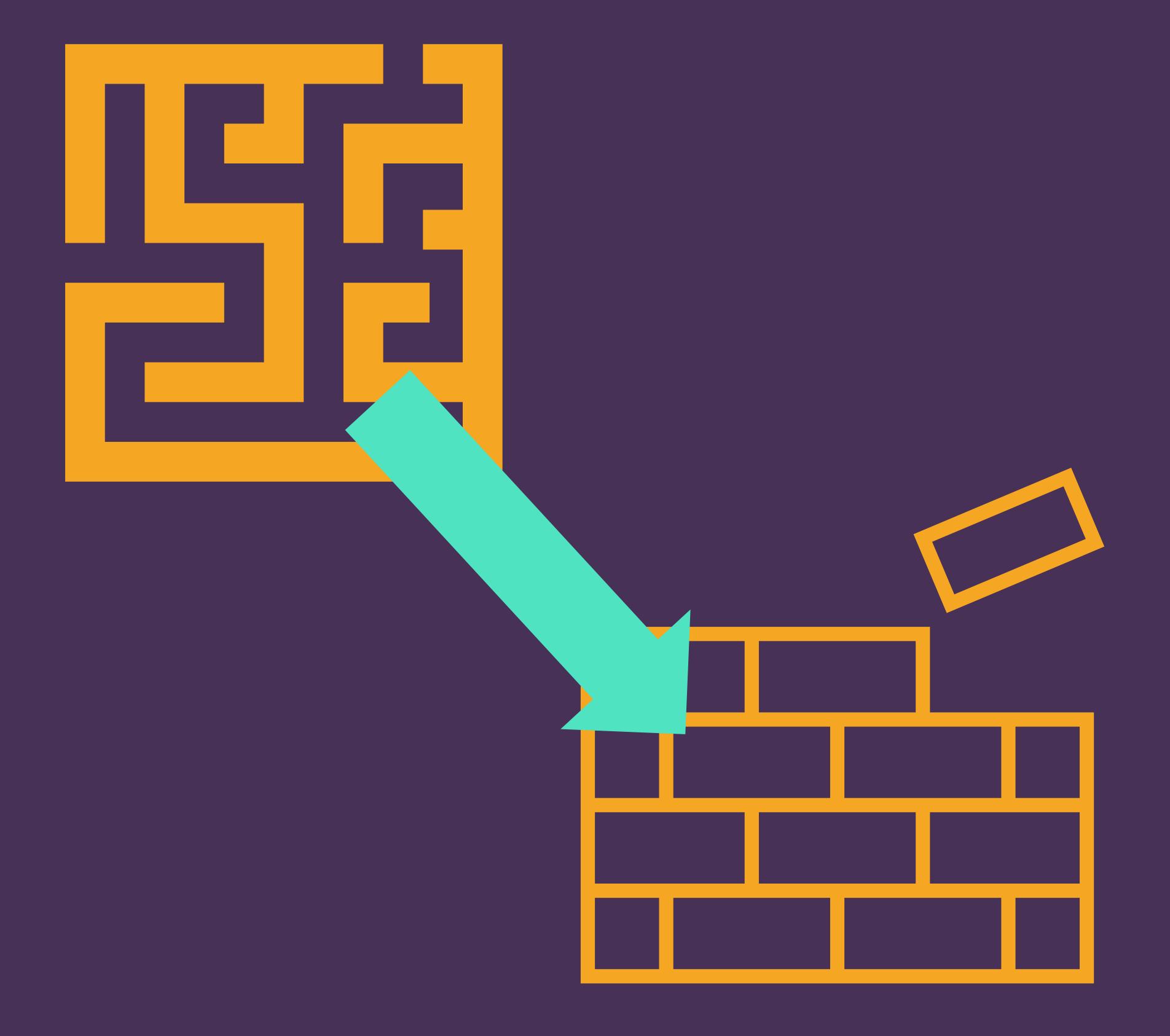
Design hardware like Lego instead of mazes with feature-oriented programming.

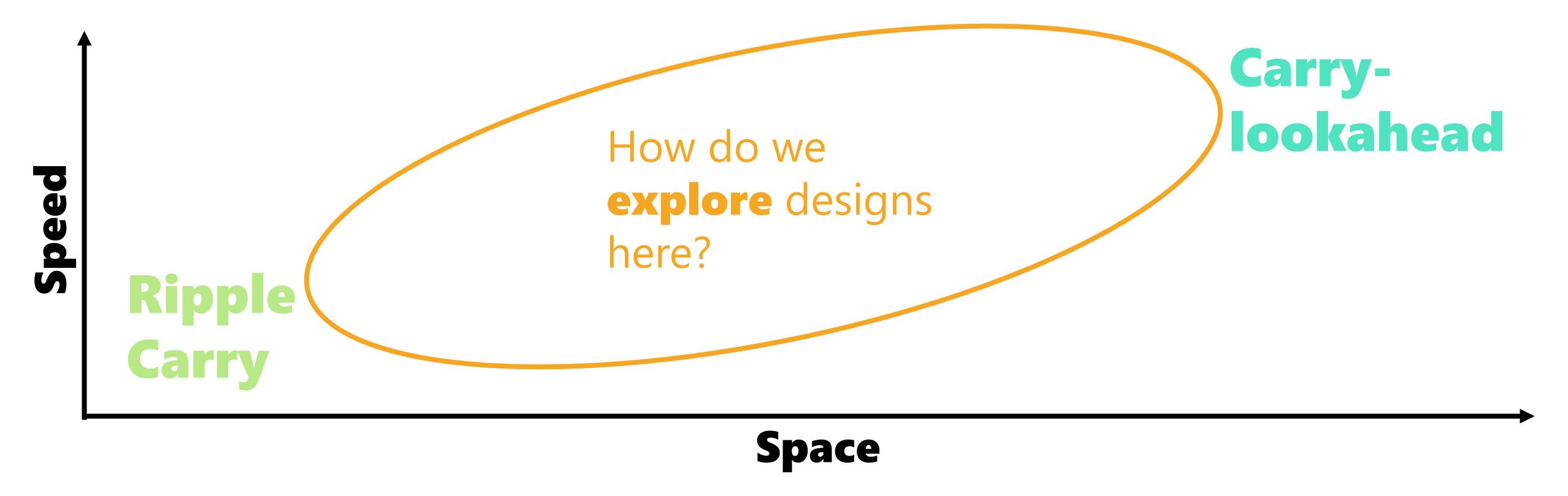


NOVEL HARDWARE DESIGN VARIATION THROUGH

FEATURE-ORIENTED PROGRAMMING

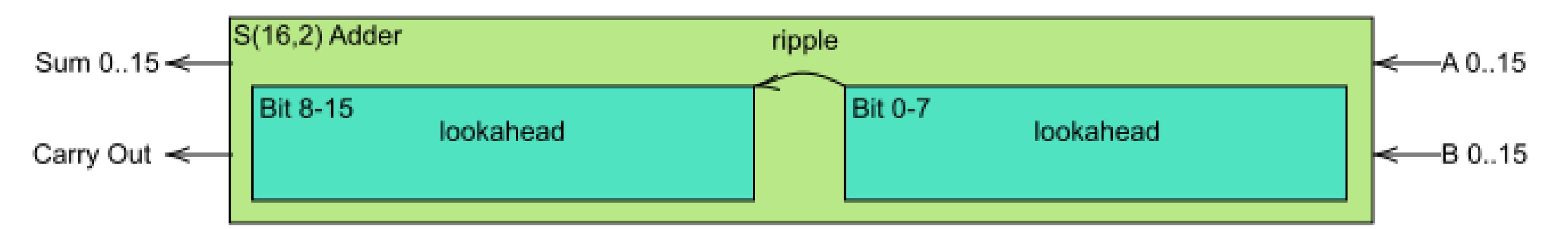
Tradeoffs

Ripple carry is smaller, but slower. Carry-lookahead is larger, but faster.



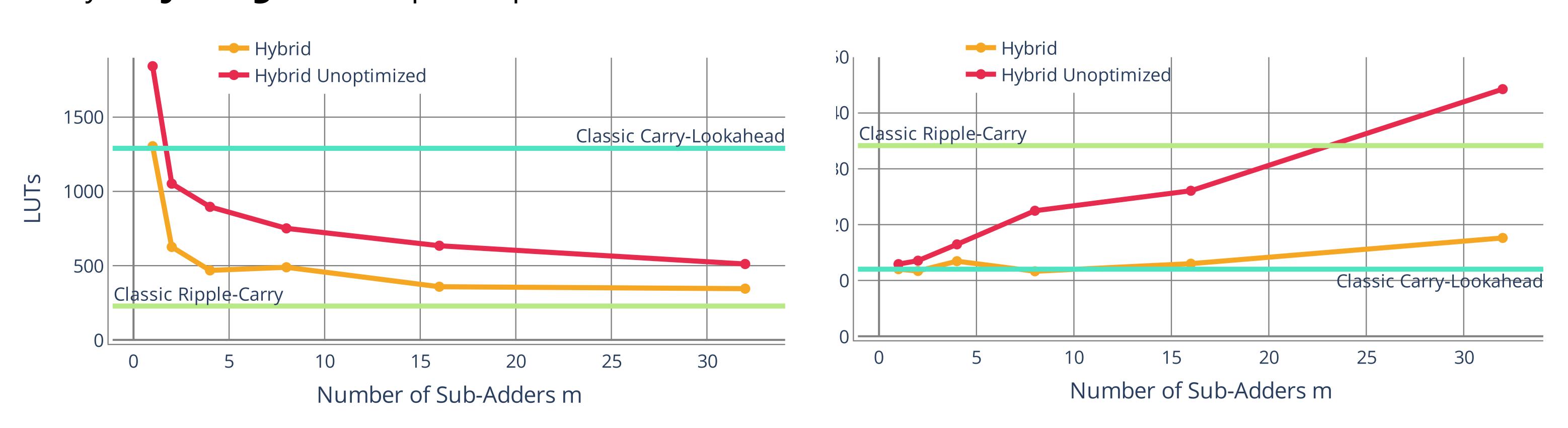
Method

Ripple carry and carry-lookahead are aspects. Just say where they should be applied to hardware.



Results

Easily vary designs and explore optimizations. Give end users a choice of features to suit their needs.



Instead of explicitly hard coding every hardware feature, implement them separately and put them together like building blocks.