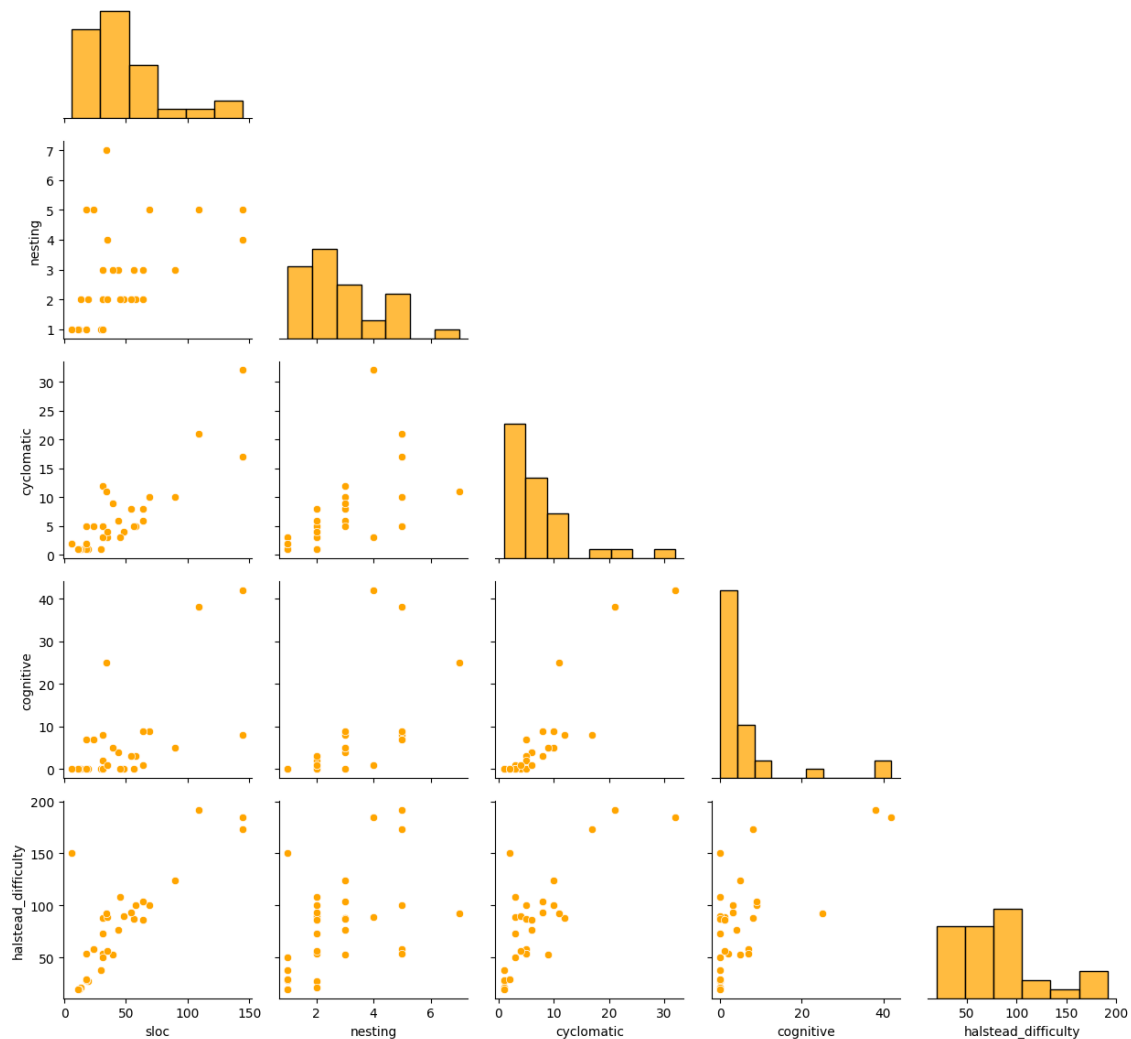# Advanced Code Complexity Analysis Report

Descriptive Statistics

Description	sloc	nesting	cognitive	cyclomatic	halstead_difficulty	halstead_volume
File count	32.0	32.0	32.0	32.0	32.0	32.0
Mean	44.969	2.688	5.562	6.438	79.212	3616.208
Std	35.172	1.575	10.352	6.677	47.672	3194.252
Min	6.0	1.0	0.0	1.0	19.375	516.234
25%	18.75	1.75	0.0	2.0	46.663	1408.888
50%	34.5	2.0	1.0	5.0	81.429	2534.146
75%	56.5	3.25	7.0	8.25	100.037	4274.975
Max	145.0	7.0	42.0	32.0	191.607	13452.921

Pairwise Scatter Plot (Pairplot)

GPU-Framework Native Halstead Complexity

Framework	SLOC	Halstead_Volume	Halstead_Difficulty
kokkos	35.0	209.67	12.67
openmp	49.0	21.98	2.71
cuda	109.0	632.52	44.02
thrust	31.0	98.84	4.47
metal	58.0	398.48	12.96
boost	45.0	3.12	10.6
opencl	6.0	692.14	34.05
openacc	35.0	90.05	5.19

SLOC = Circle Diameter