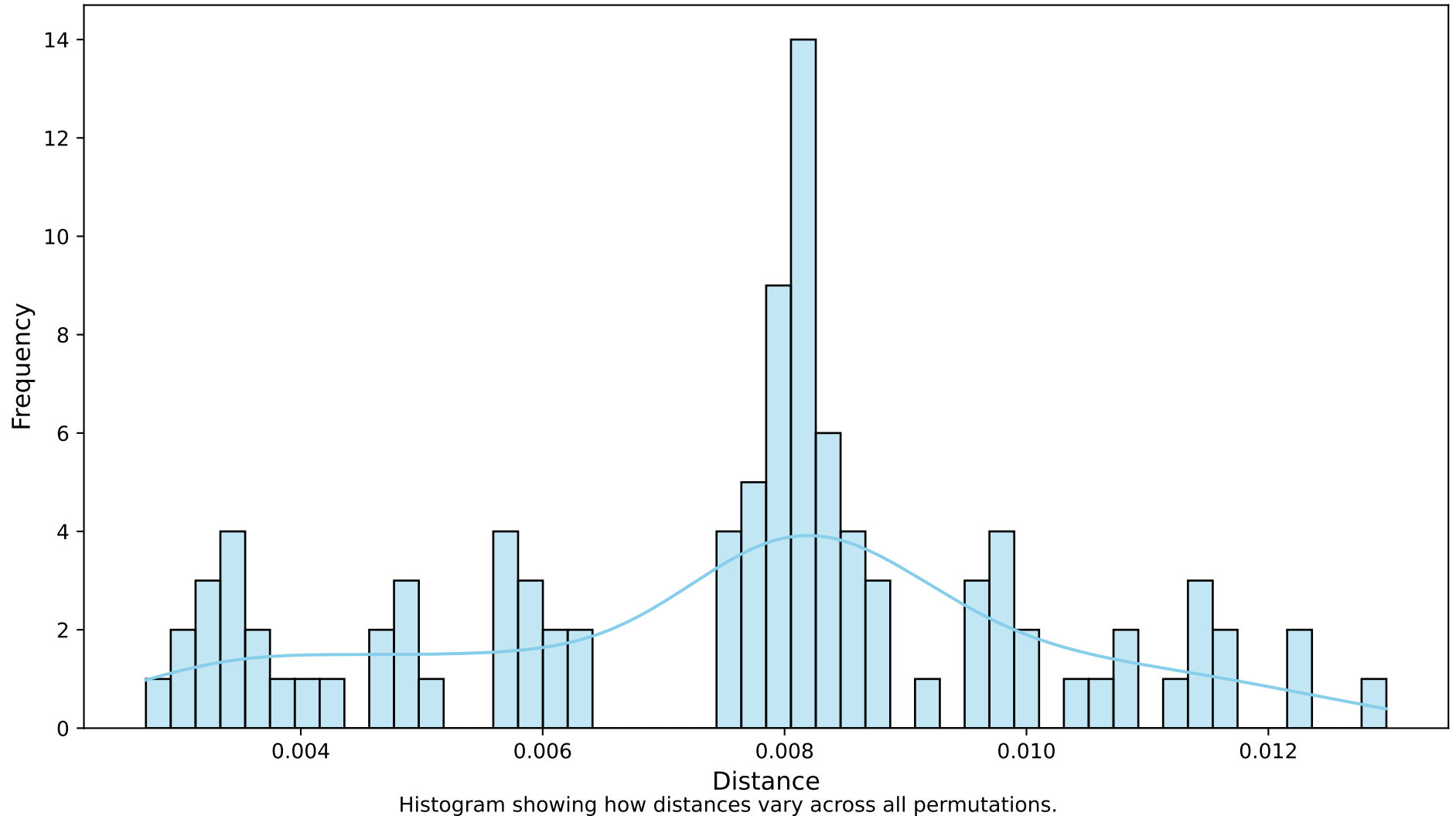
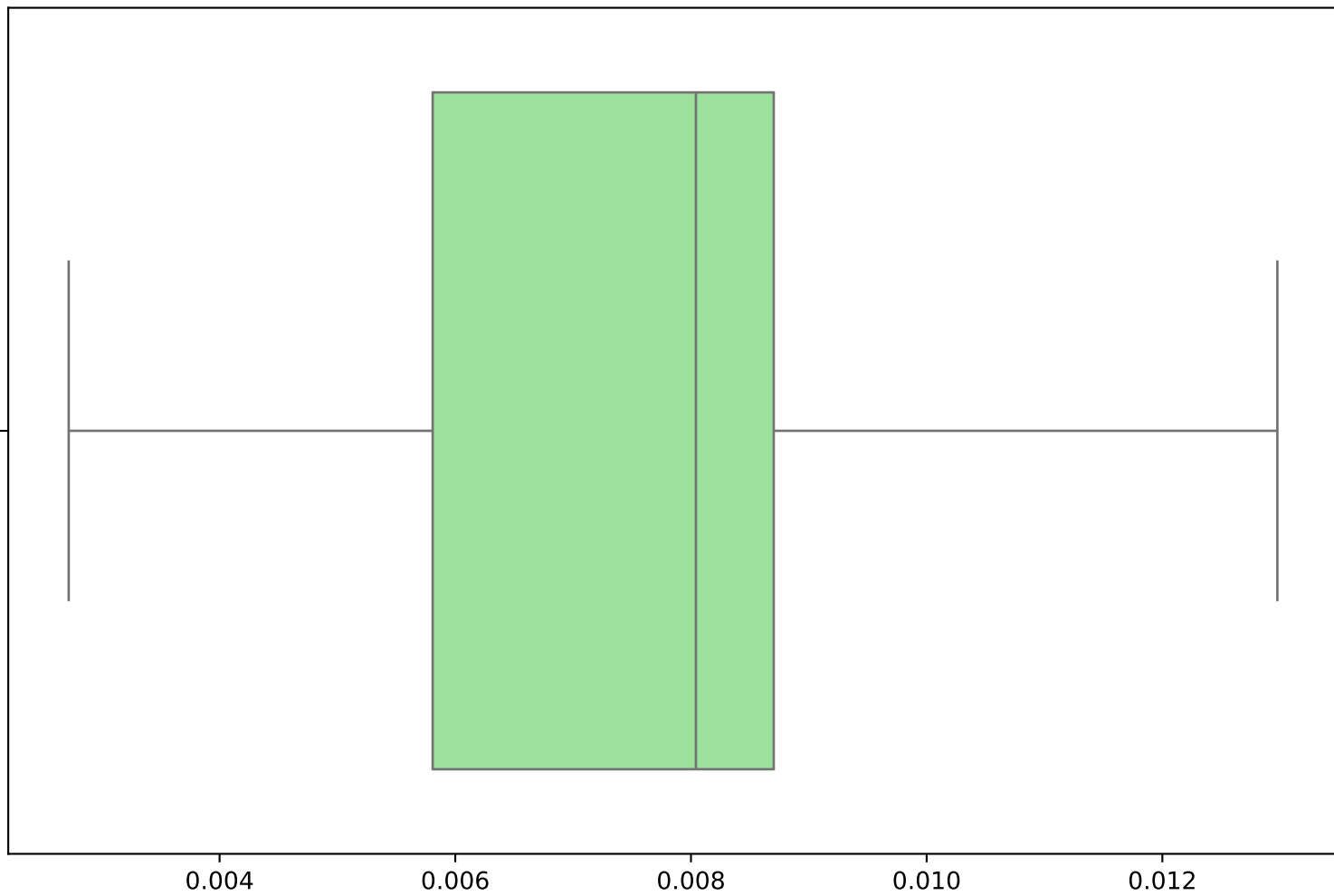


# Distribution of Distances Across Permutations



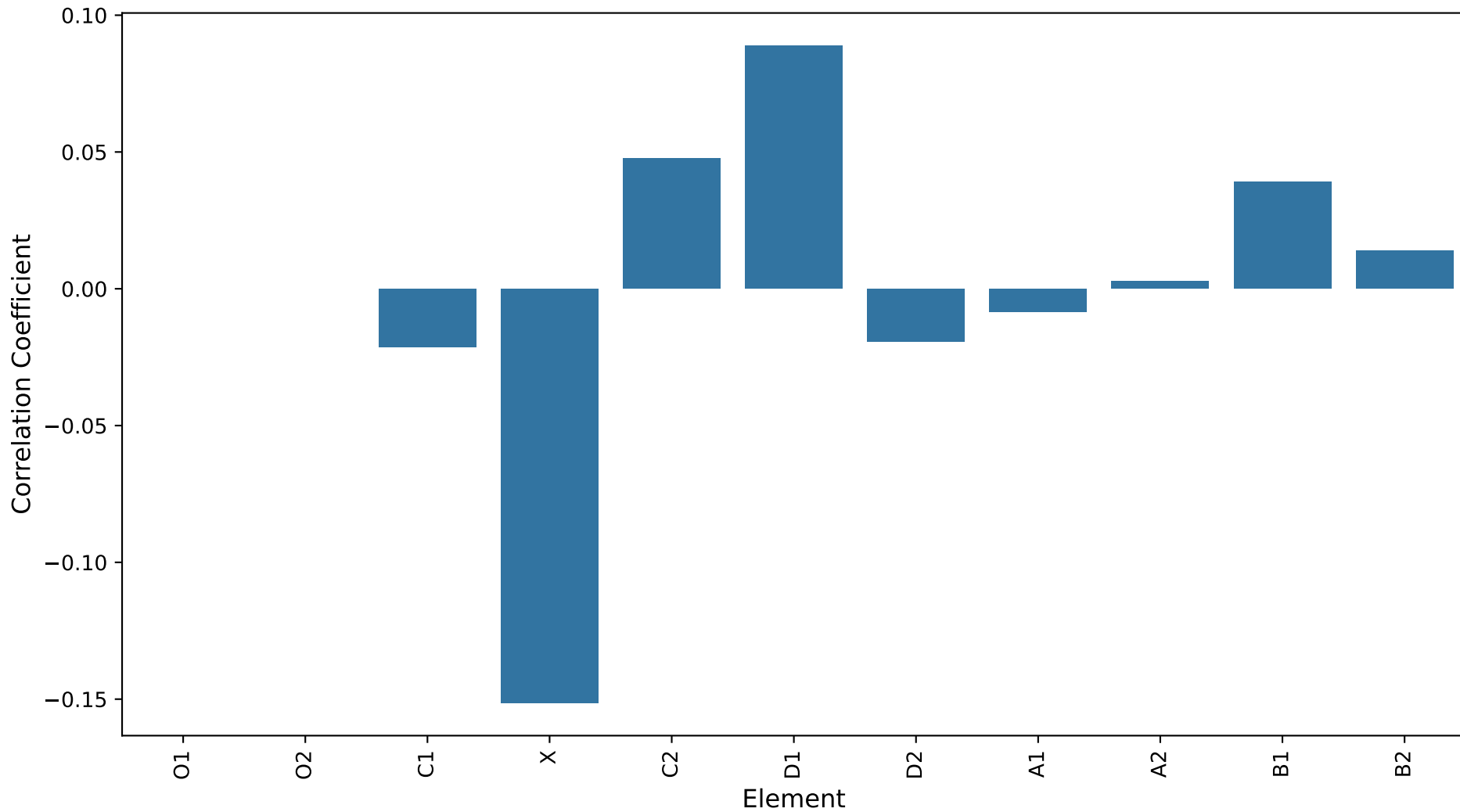
## Summary Statistics of Distances



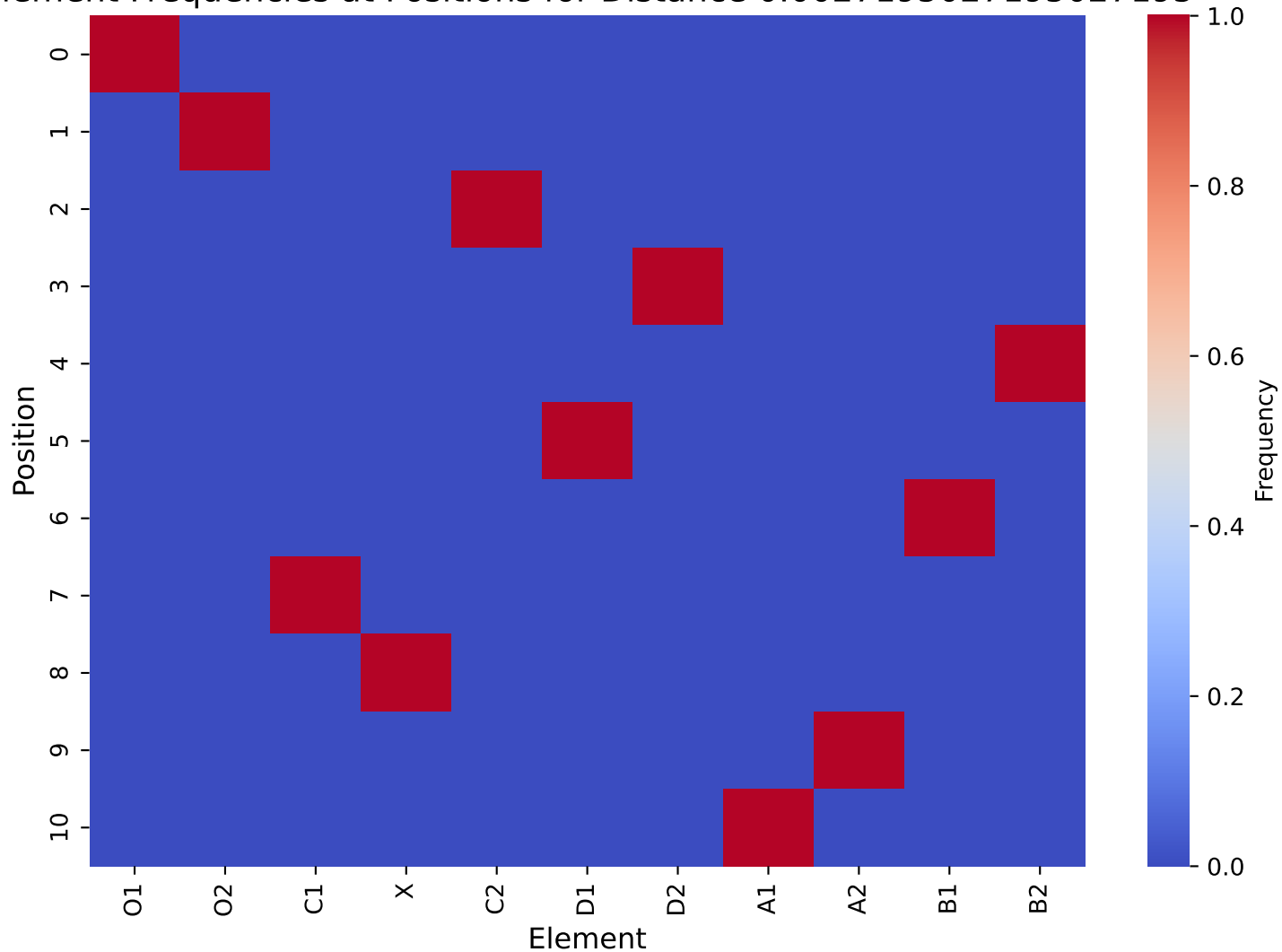
Distance

Boxplot illustrating the central tendency and dispersion of distances.

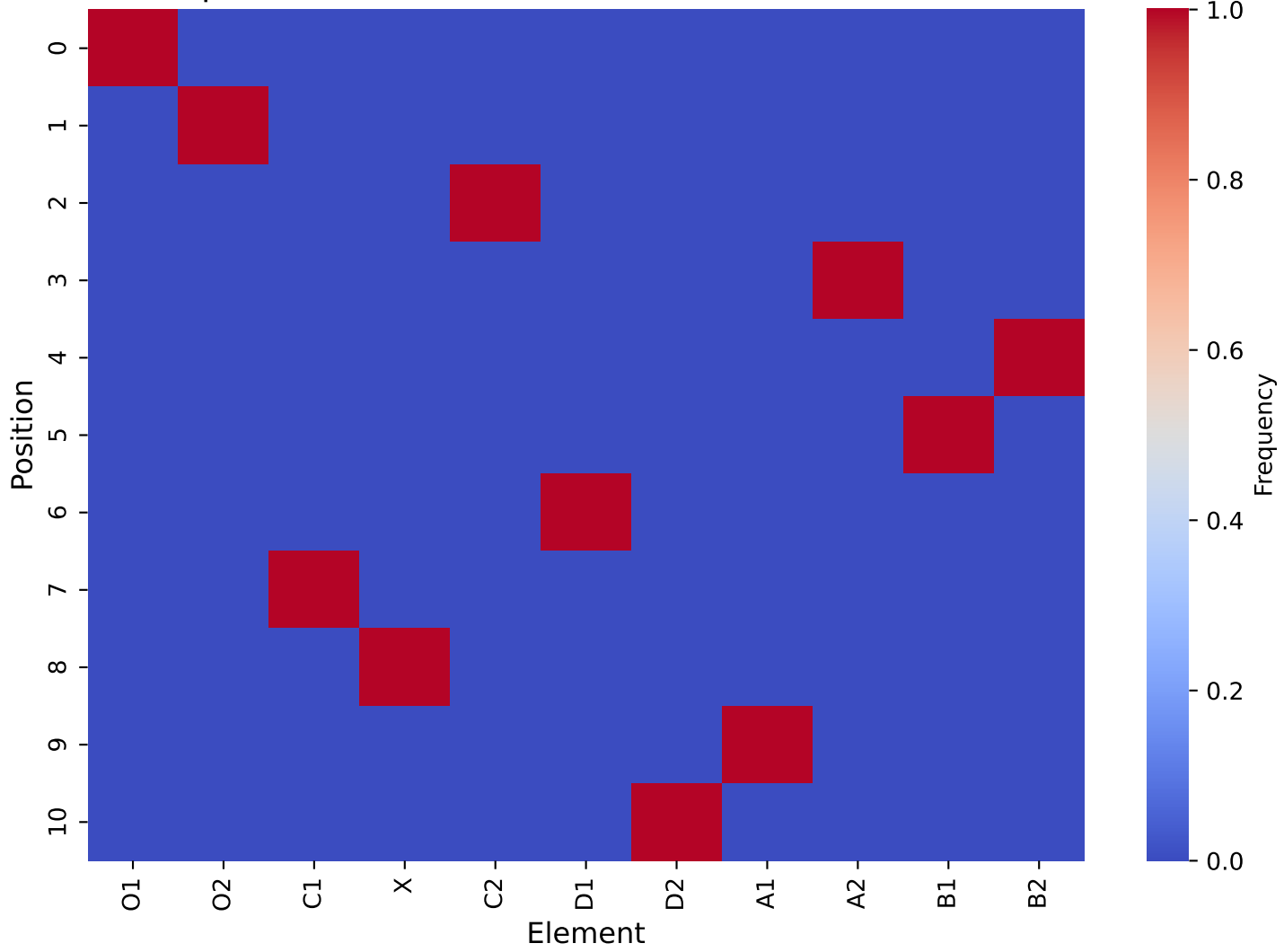
Correlation between Element Positions and Distance



Element Frequencies at Positions for Distance 0.0027195027195027195



Element Frequencies at Positions for Distance 0.012975912975912975



## Statistical Summary of Distances

	Value
Mean	0.007577
Median	0.008042
Standard Deviation	0.002450
Variance	0.000006
Minimum	0.002720
Maximum	0.012976

### Shapiro-Wilk Normality Test Results:

	Test	Statistic	p-value
Shapiro-Wilk		0.951206	0.000997

Permutations with Minimal Distance: 0.0027195027195027195

01, 02, C2, D2, B2, D1, B1, C1, X, A2, A1

Permutations resulting in the minimal total distance among trees.

Permutations with Maximal Distance: 0.012975912975912975

01, 02, C2, A2, B2, B1, D1, C1, X, A1, D2

Permutations resulting in the maximal total distance among trees.