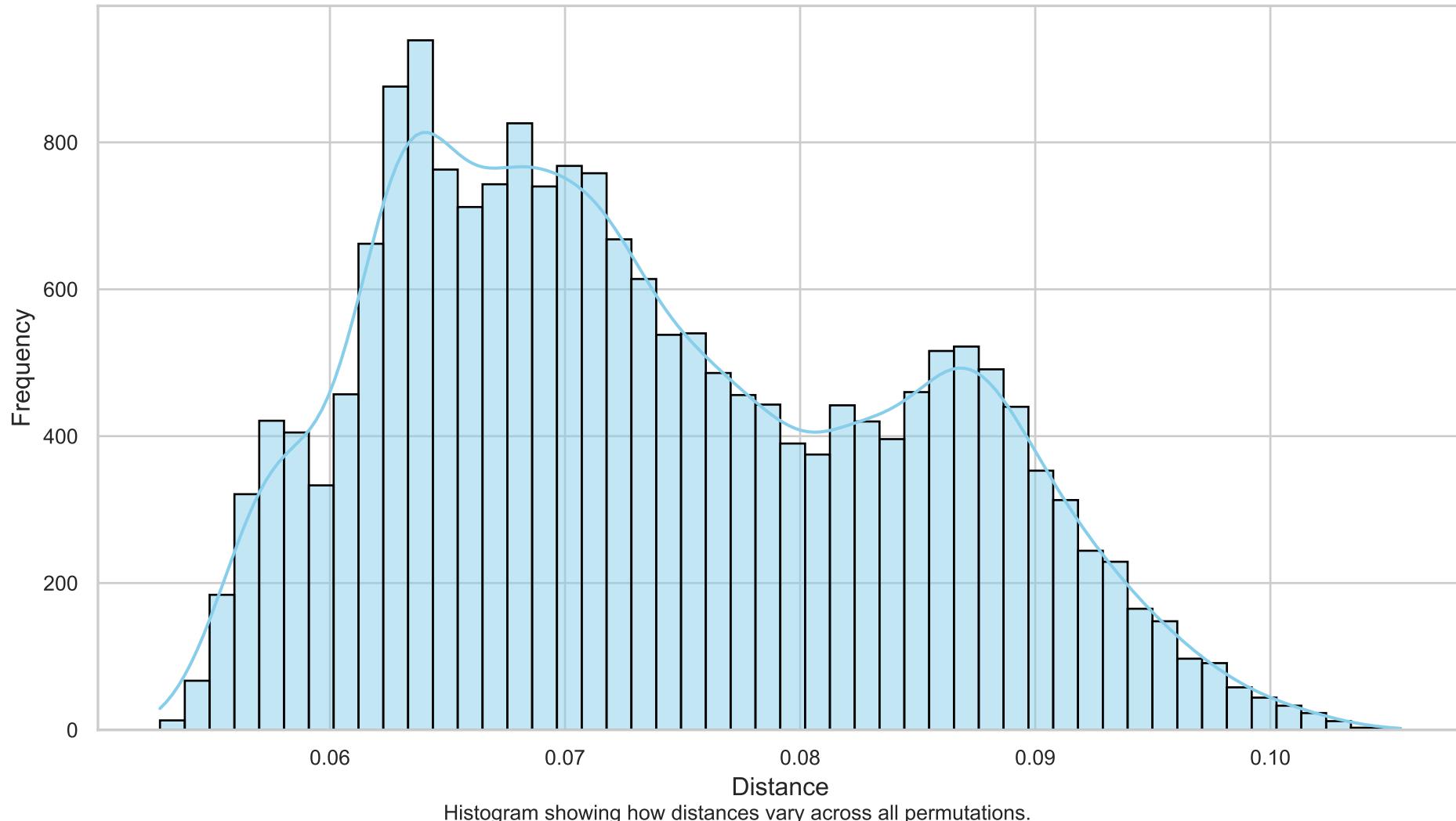


Distribution of Distances Across Permutations

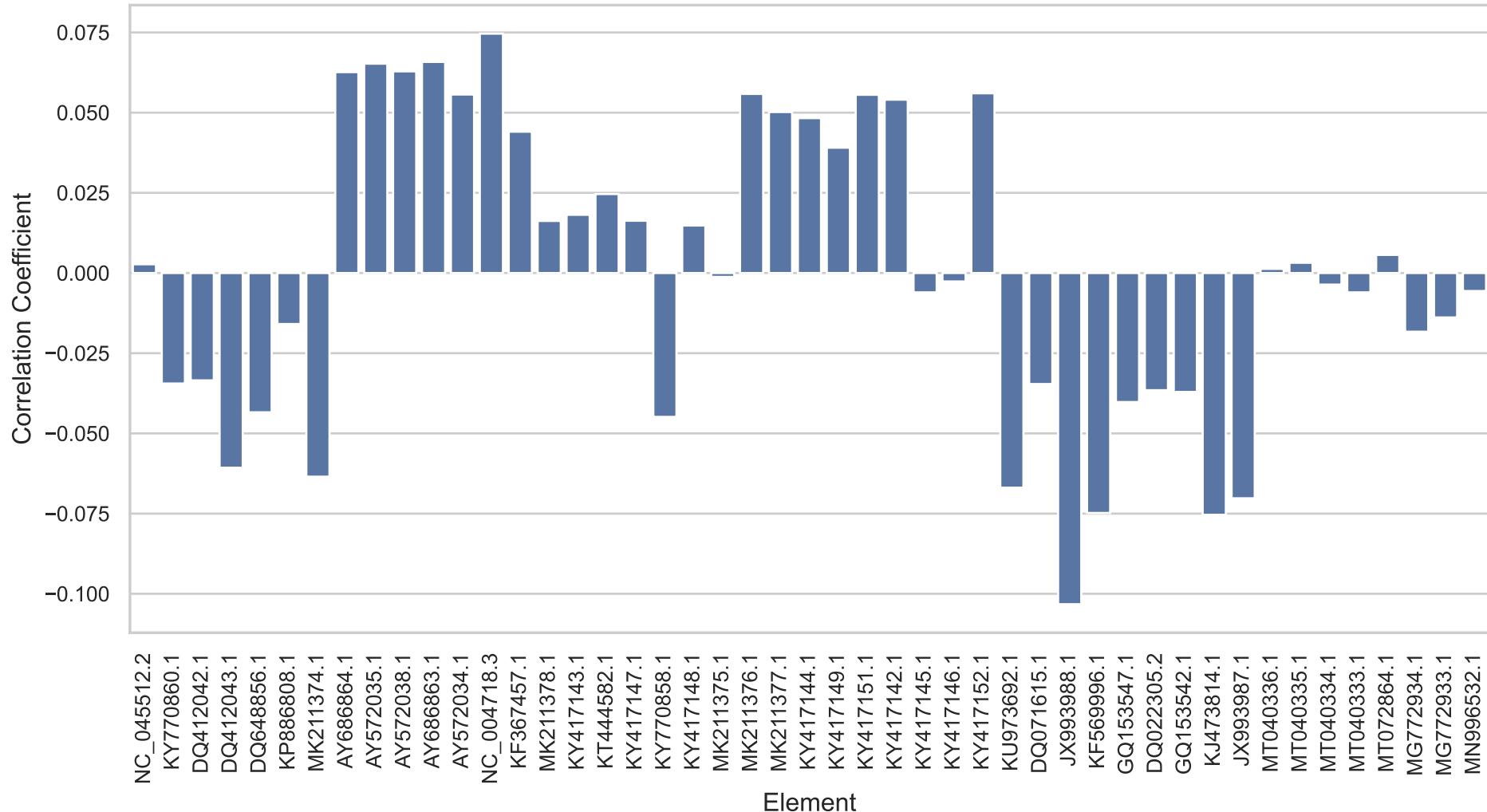


Summary Statistics of Distances

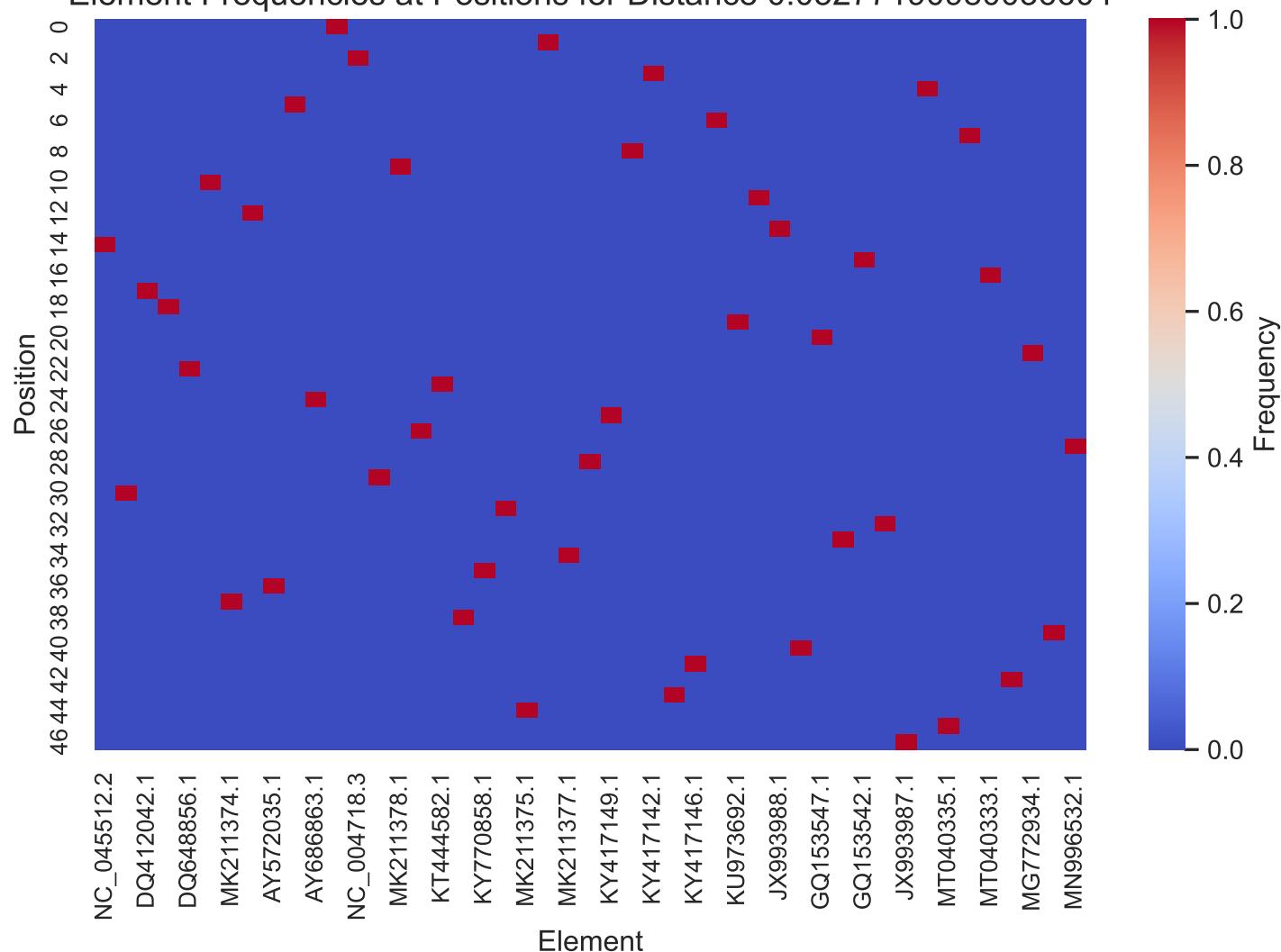


Boxplot illustrating the central tendency and dispersion of distances.

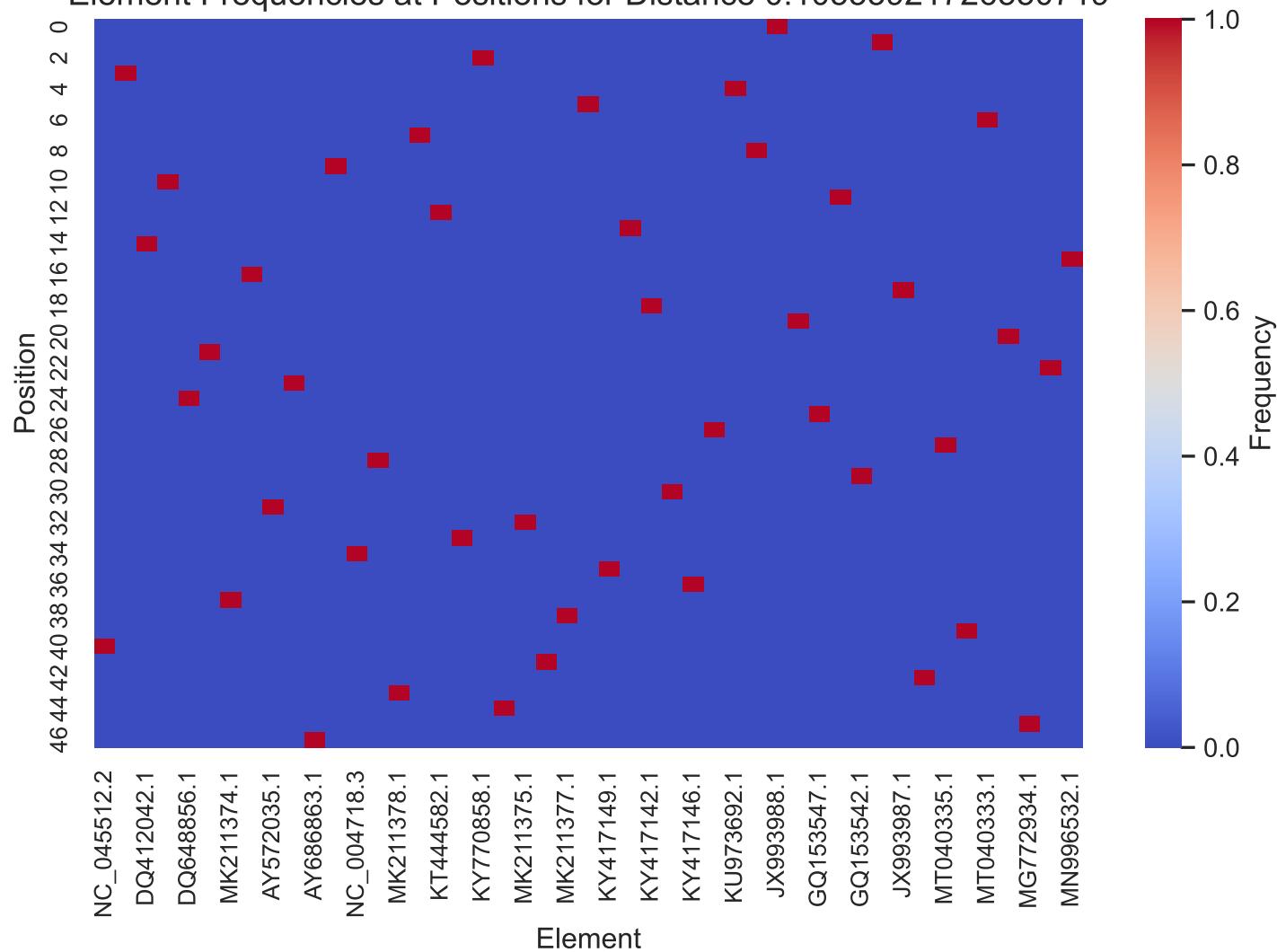
Correlation between Element Positions and Distance



Element Frequencies at Positions for Distance 0.05277190980036604



Element Frequencies at Positions for Distance 0.10553921726550719



Statistical Summary of Distances

	Value
Mean	0.073696
Median	0.071802
Standard Deviation	0.010832
Variance	0.000117
Minimum	0.052772
Maximum	0.105539

Shapiro-Wilk Normality Test Results:

Test	Statistic	p-value
Shapiro-Wilk	0.9655	3.110816e-55

Permutations with Minimal Distance: 0.05277190980036604

AY572034.1, MK211376.1, NC_004718.3, KY417142.1, MT040336.1, AY572038.1,
KY417152.1, MT040334.1, KY417151.1, MK211378.1, KP886808.1, DQ071615.1,
AY686864.1, JX993988.1, NC_045512.2, GQ153542.1, MT040333.1, DQ412042.1,
DQ412043.1, KU973692.1, GQ153547.1, MG772934.1, DQ648856.1, KT444582.1,
AY686863.1, KY417149.1, KY417143.1, MN996532.1, KY417144.1, KF367457.1,
KY770860.1, KY417148.1, KJ473814.1, DQ022305.2, MK211377.1, KY770858.1,
AY572035.1, MK211374.1, KY417147.1, MG772933.1, KF569996.1, KY417146.1,
MT072864.1, KY417145.1, MK211375.1, MT040335.1, JX993987.1

Permutations with Maximal Distance: 0.10553921726550719

JX993988.1, KJ473814.1, KY770858.1, KY770860.1, KU973692.1, KY417144.1,
MT040333.1, KY417143.1, DQ071615.1, AY572034.1, DQ412043.1, DQ022305.2,
KT444582.1, KY417151.1, DQ412042.1, MN996532.1, AY686864.1, JX993987.1,
KY417142.1, KF569996.1, MT072864.1, KP886808.1, MG772933.1, AY572038.1,
DQ648856.1, GQ153547.1, KY417152.1, MT040335.1, KF367457.1, GQ153542.1,
KY417145.1, AY572035.1, MK211375.1, KY417147.1, NC_004718.3, KY417149.1,
KY417146.1, MK211374.1, MK211377.1, MT040334.1, NC_045512.2, MK211376.1,
MT040336.1, MK211378.1, KY417148.1, MG772934.1, AY686863.1