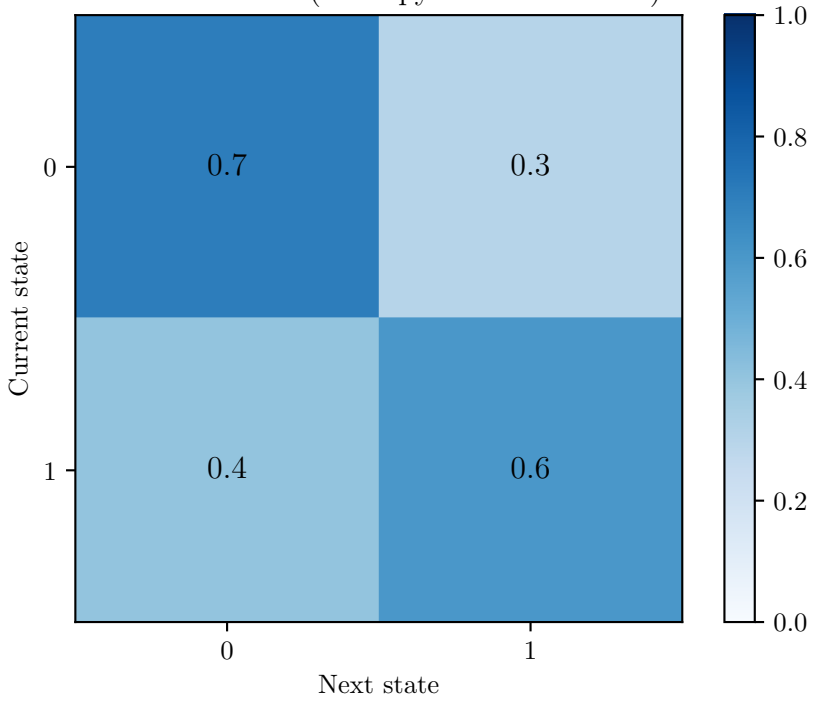
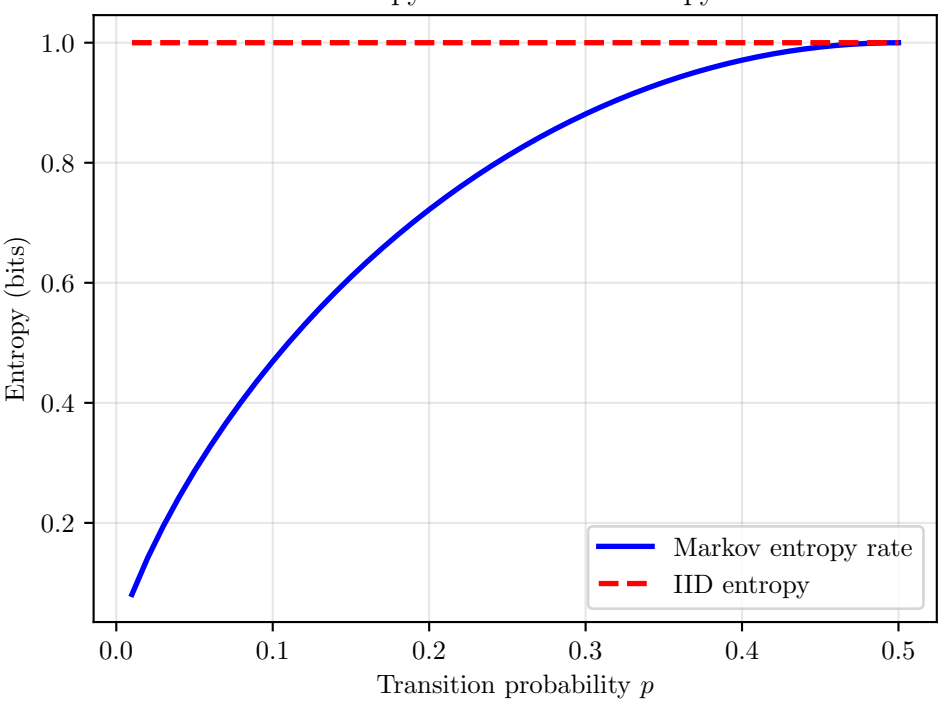
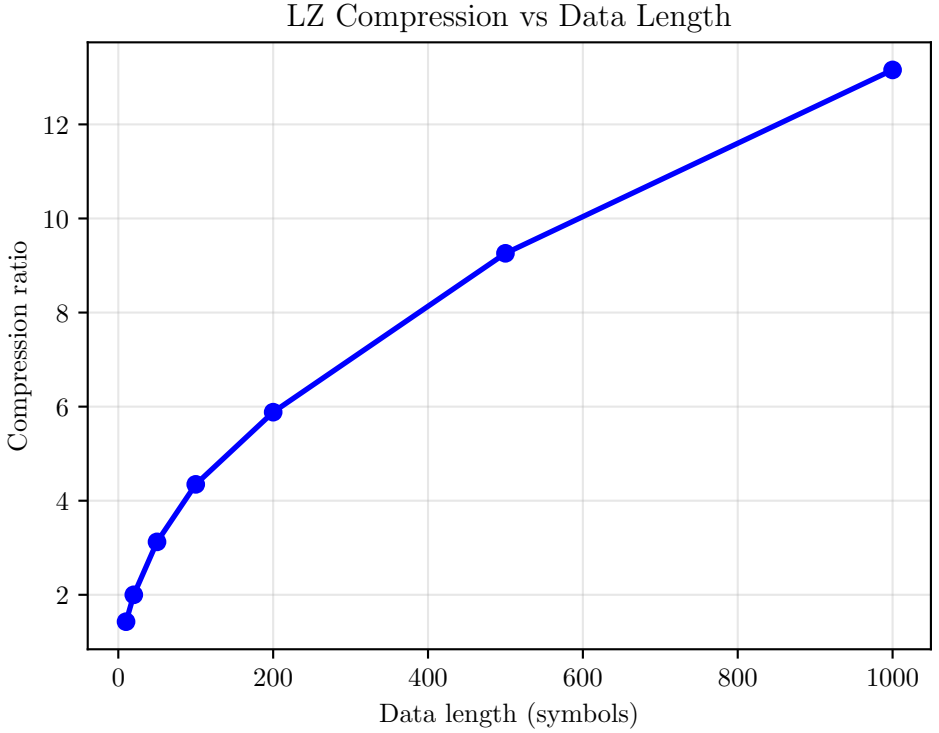
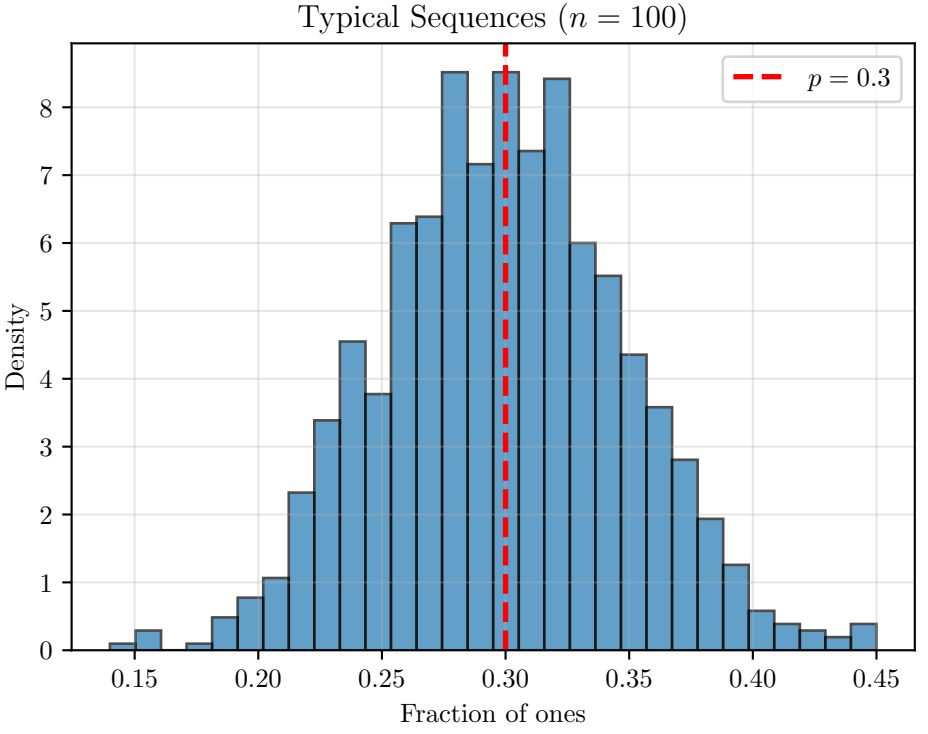

Markov Source (Entropy rate: 0.920 bits)
0.7
0.3
0.4
0.6
Current state
Next state
0
1
0.0
0.2
0.4
0.6
0.8
1.0


Entropy Rate vs IID Entropy
Entropy (bits)
Transition probability p
Markov entropy rate
IID entropy
0.0
0.1
0.2
0.3
0.4
0.5
0.2
0.4
0.6
0.8
1.0


LZ Compression vs Data Length
Compression ratio
Data length (symbols)
0
200
400
600
800
1000
2
4
6
8
10
12


Typical Sequences ($n = 100$)
$p = 0.3$
Density
Fraction of ones
0.15
0.20
0.25
0.30
0.35
0.40
0.45
0
1
2
3
4
5
6
7
8