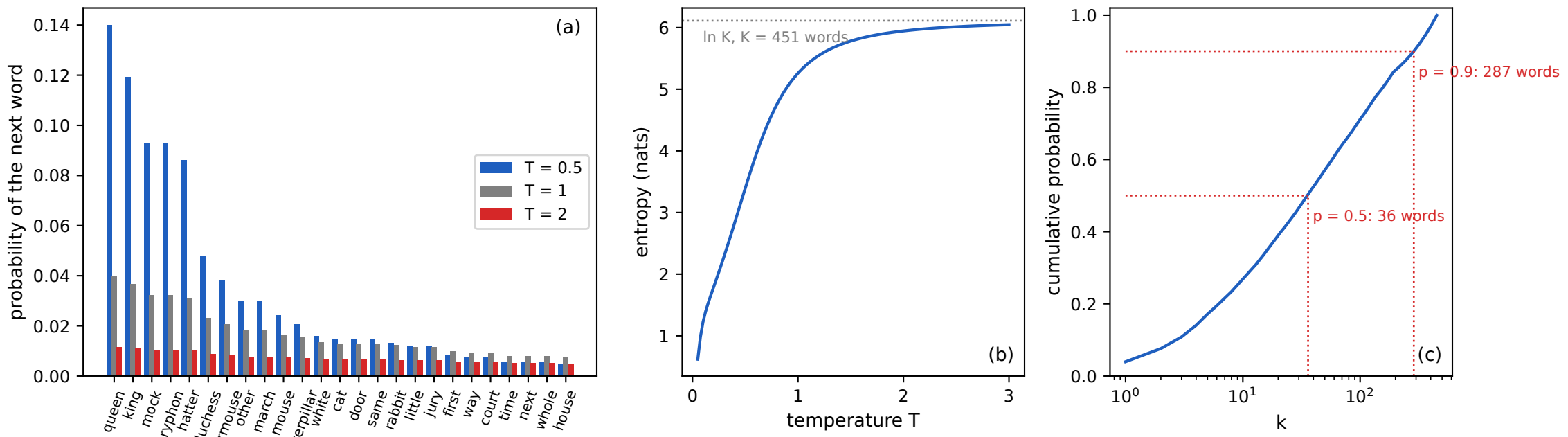

(a)
probability of the next word
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
T = 0.5
T = 1
T = 2
queen
king
mock
gryphon
hatter
duchess
dormouse
other
march
mouse
caterpillar
white
cat
door
same
rabbit
little
jury
first
way
court
time
next
whole
house
ln K, K = 451 words
entropy (nats)
6
5
4
3
2
1
0
1
2
3
temperature T
(b)
cumulative probability
1.0
0.8
0.6
0.4
0.2
0.0
p = 0.9: 287 words
p = 0.5: 36 words
10^0
10^1
10^2
k
(c)