

44

45

tail/

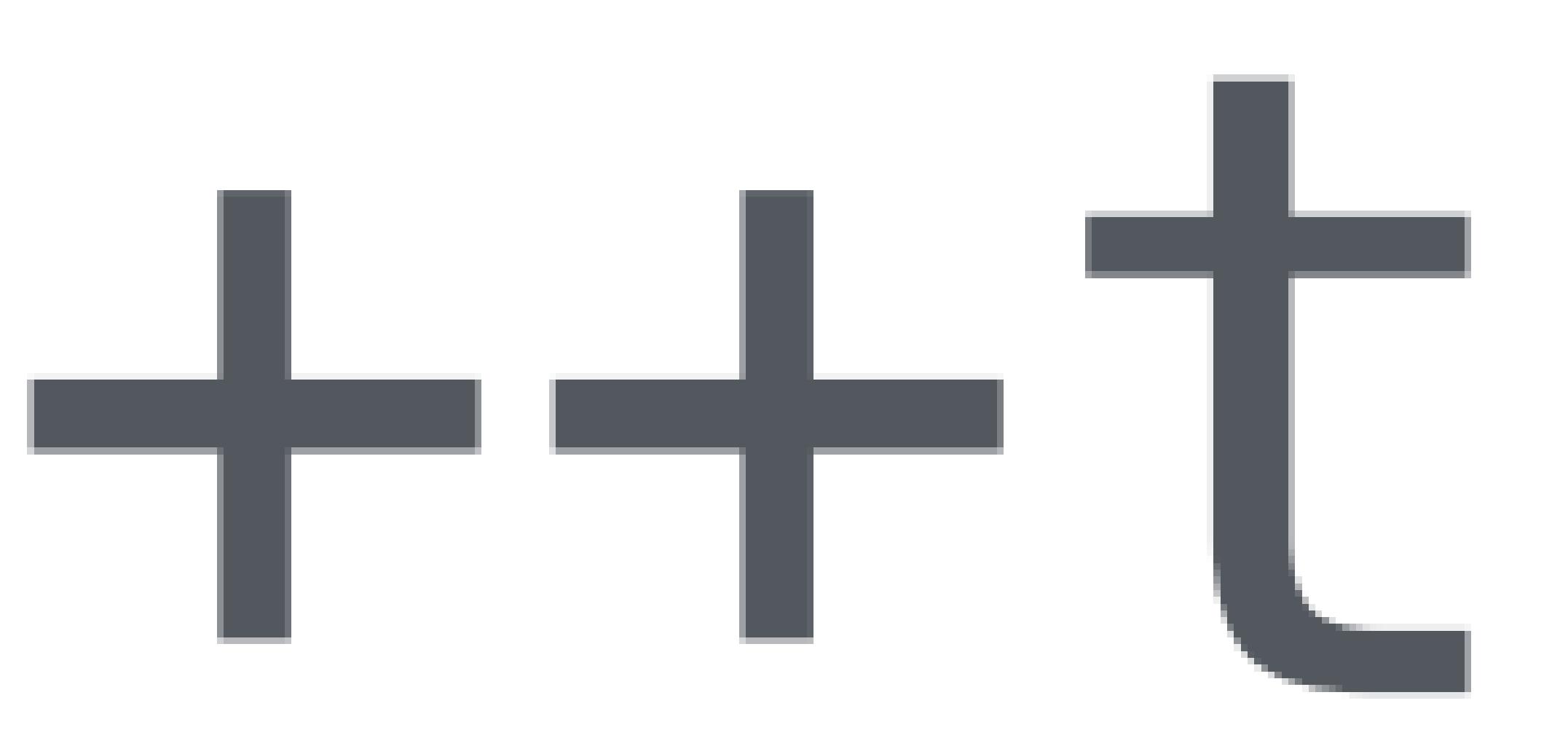
write

head/

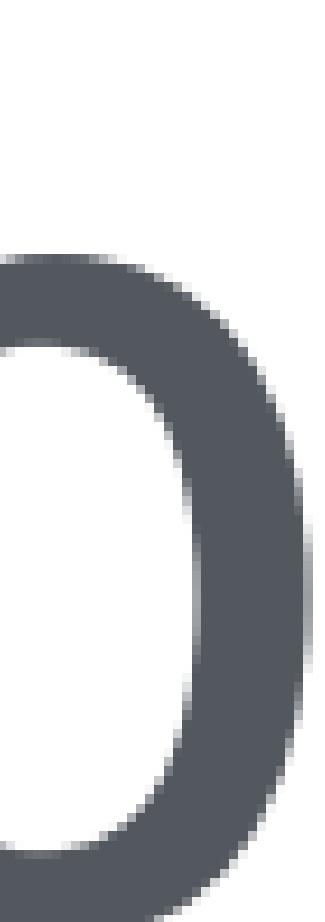
read

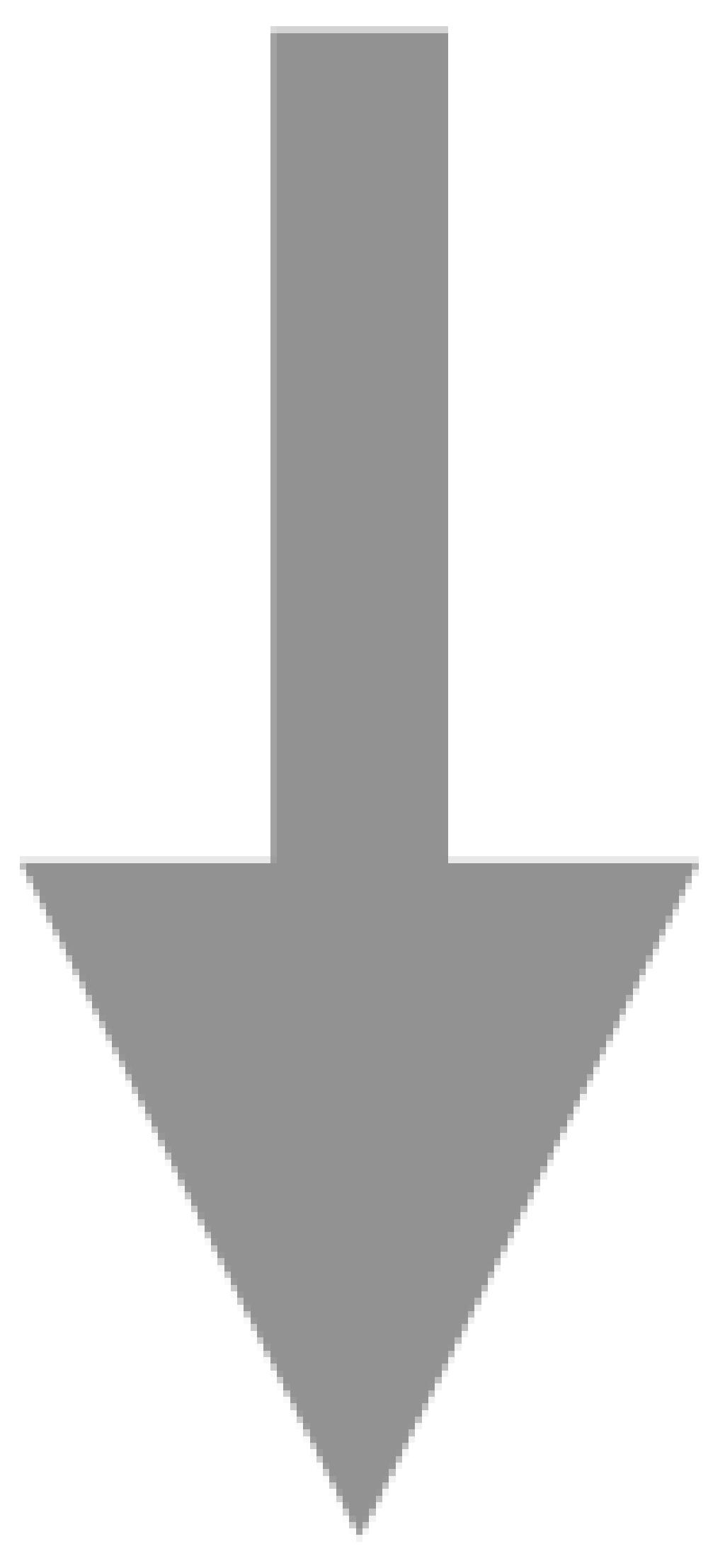
2^2 capacity = 4 = 100b

capacity - 1 = 3 = 011b



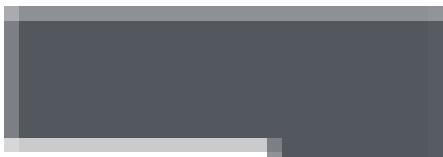
index-and-index





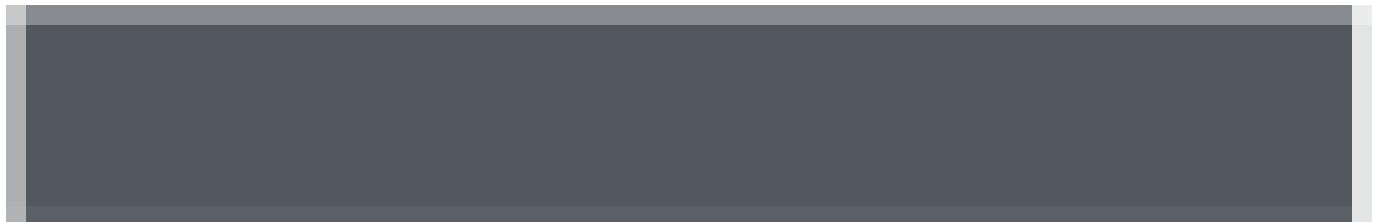
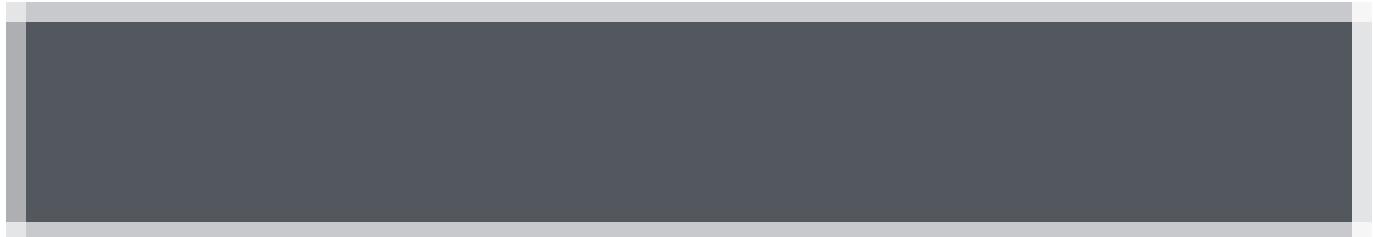
46

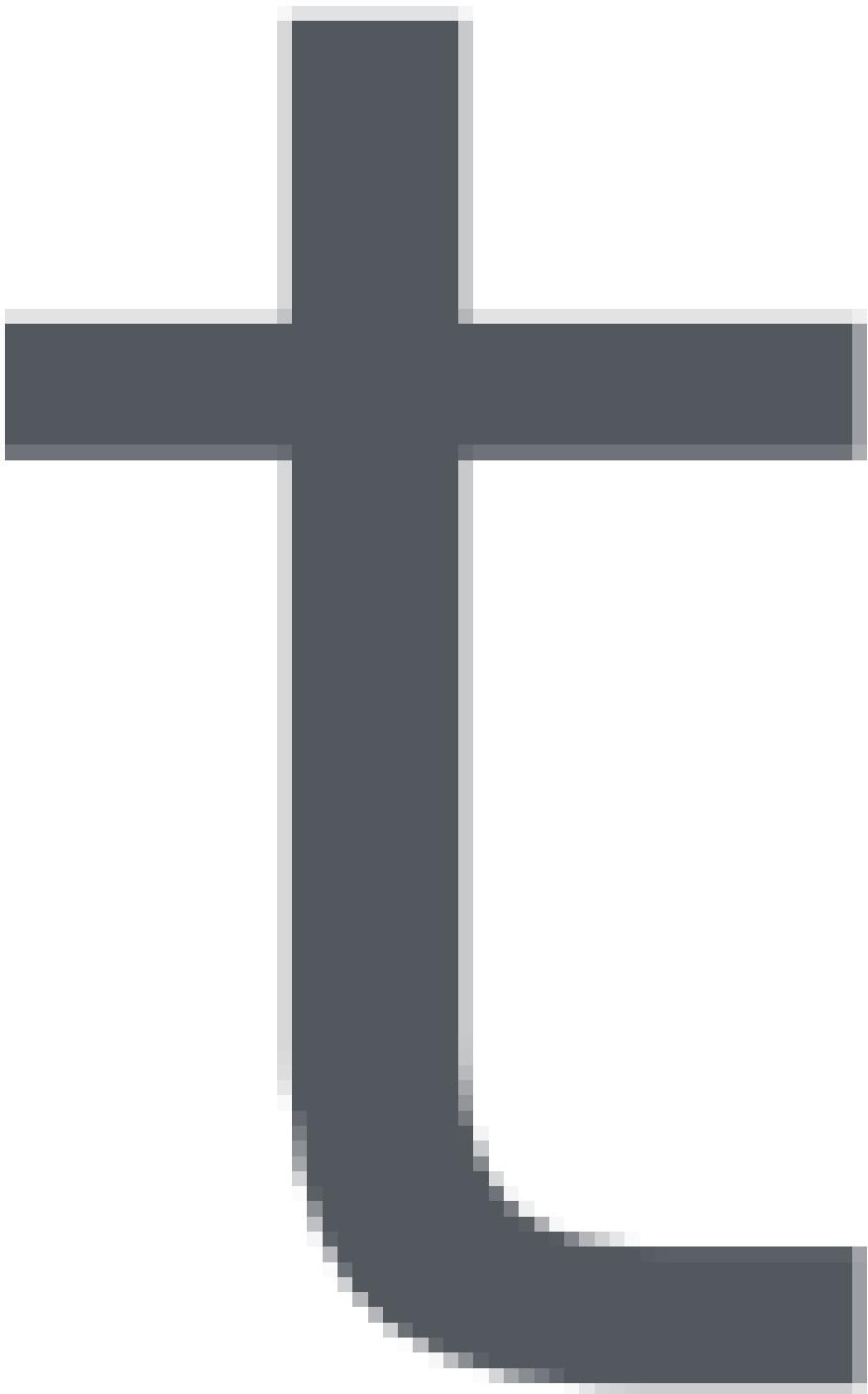




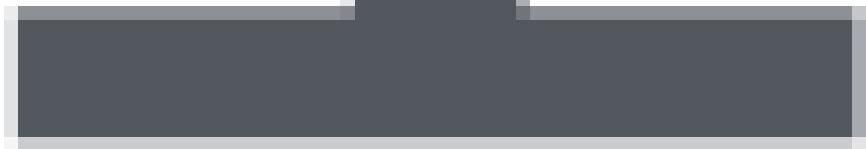
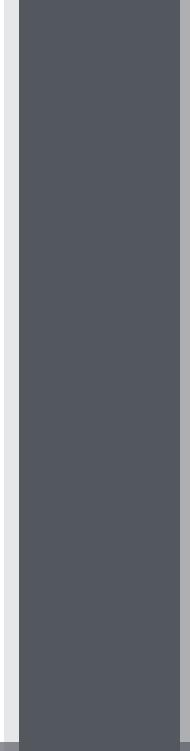
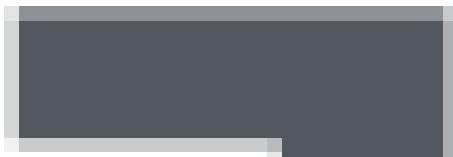
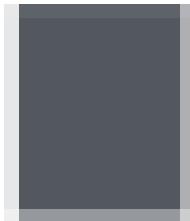


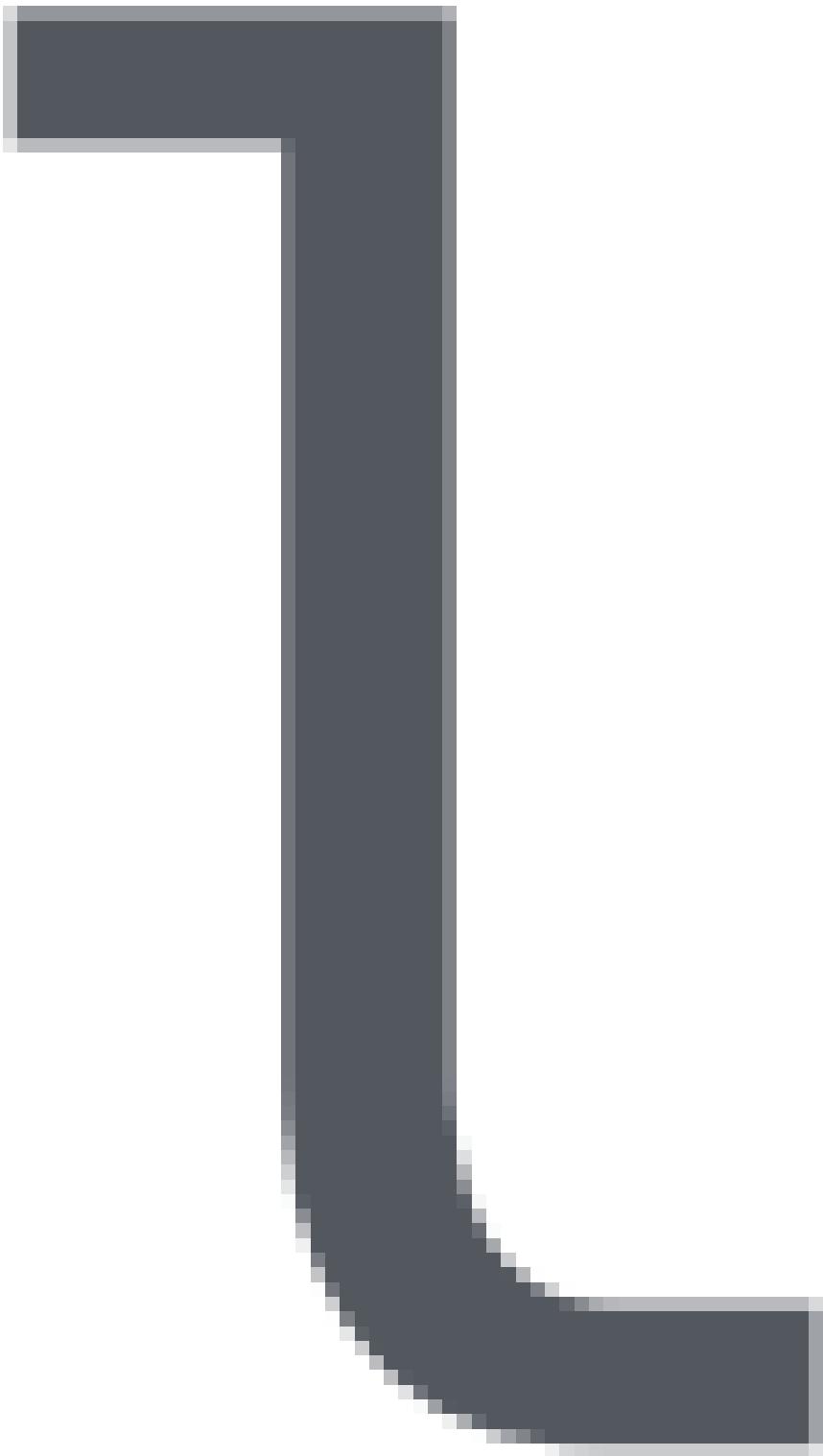
















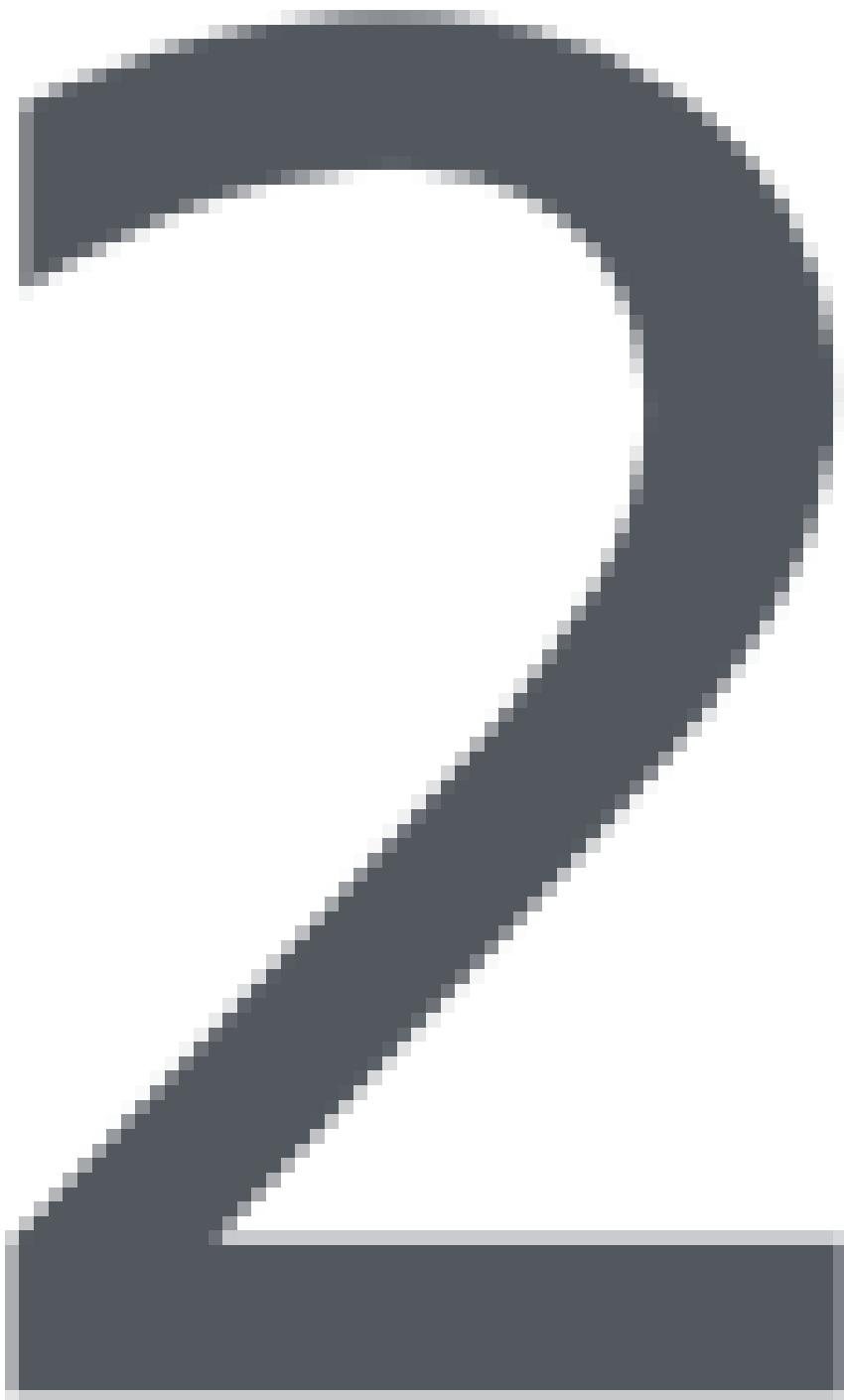


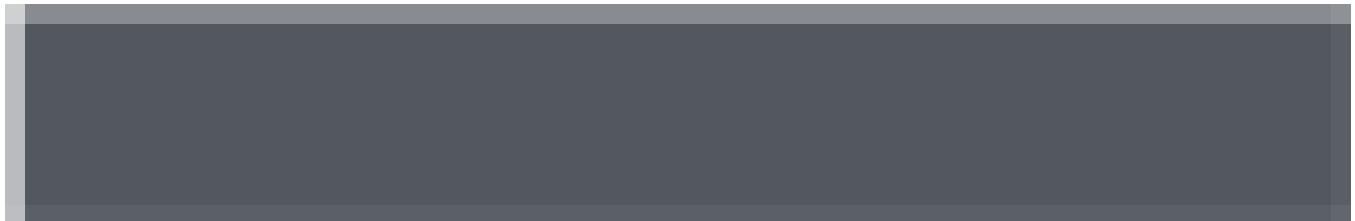
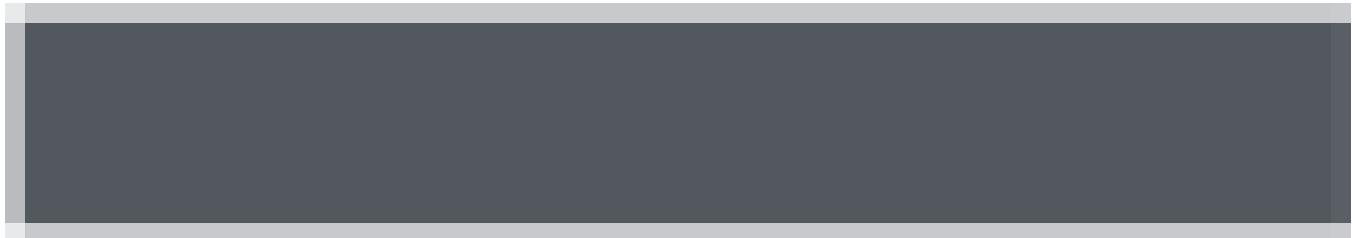












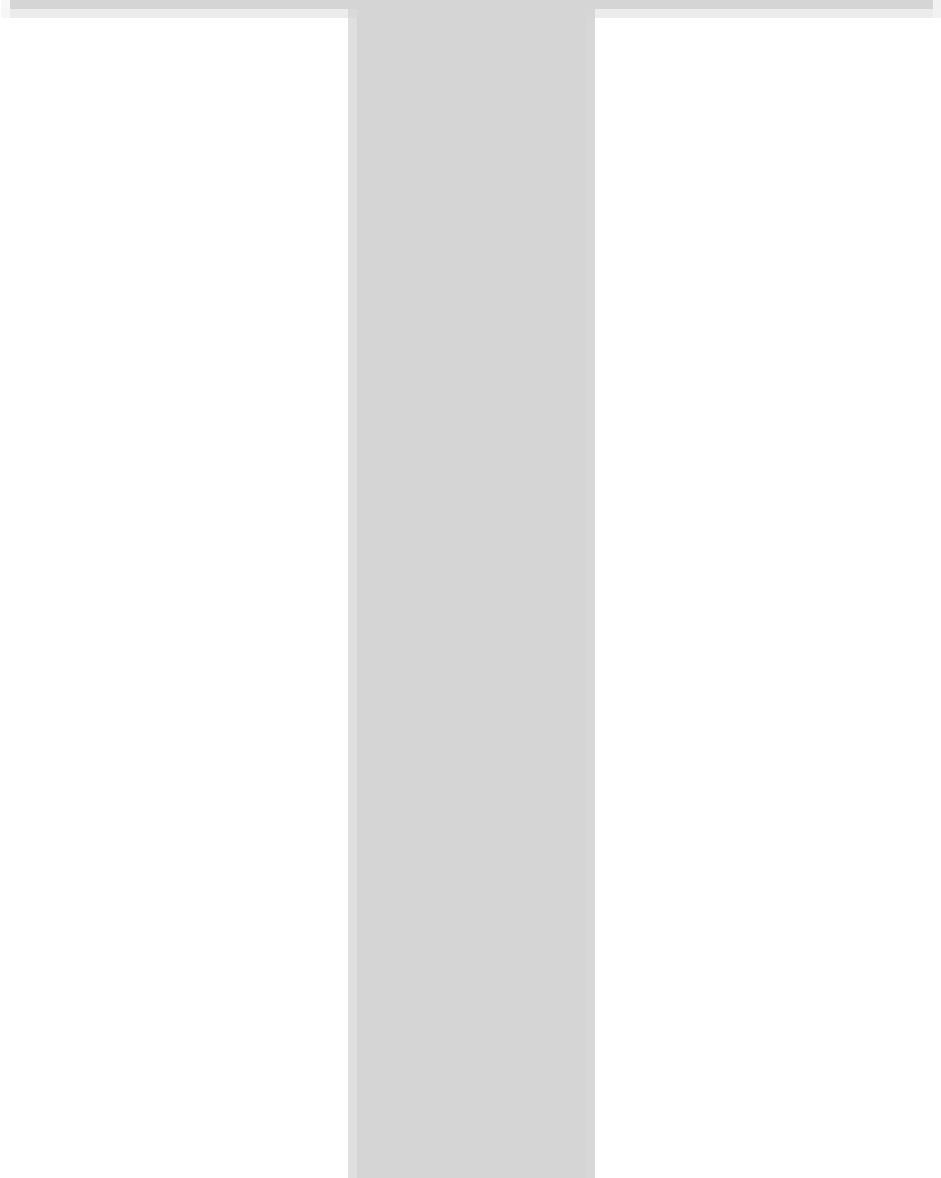
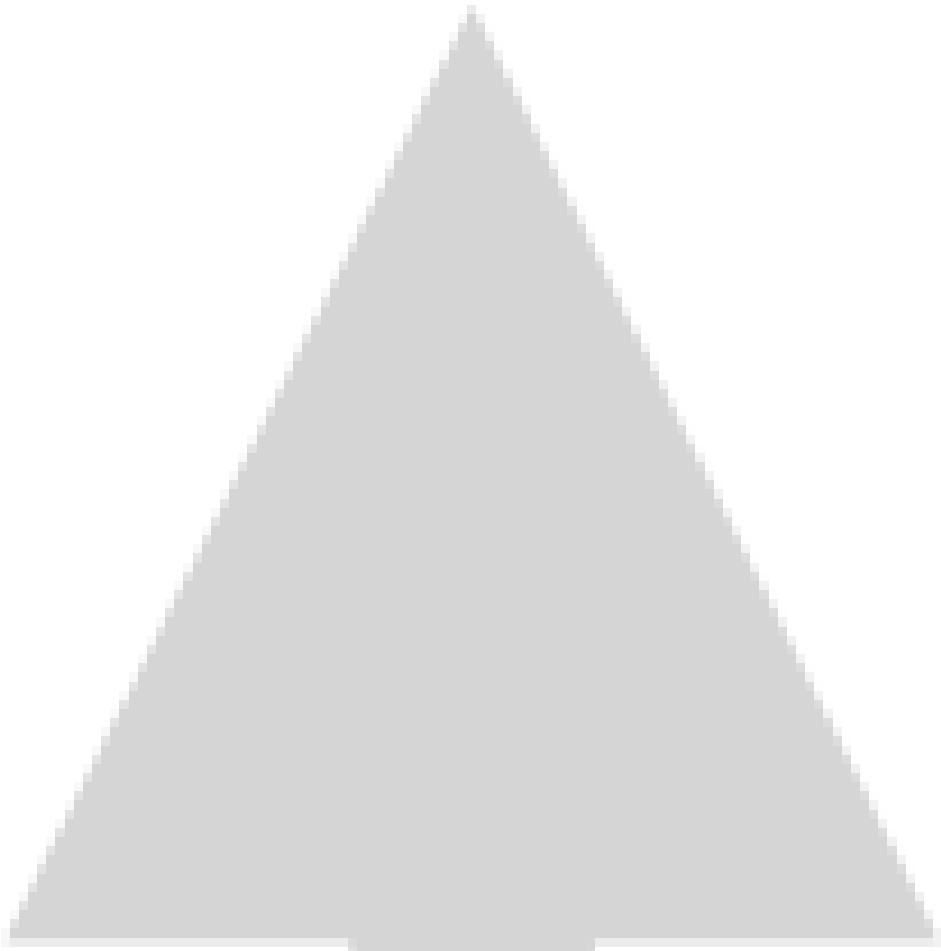


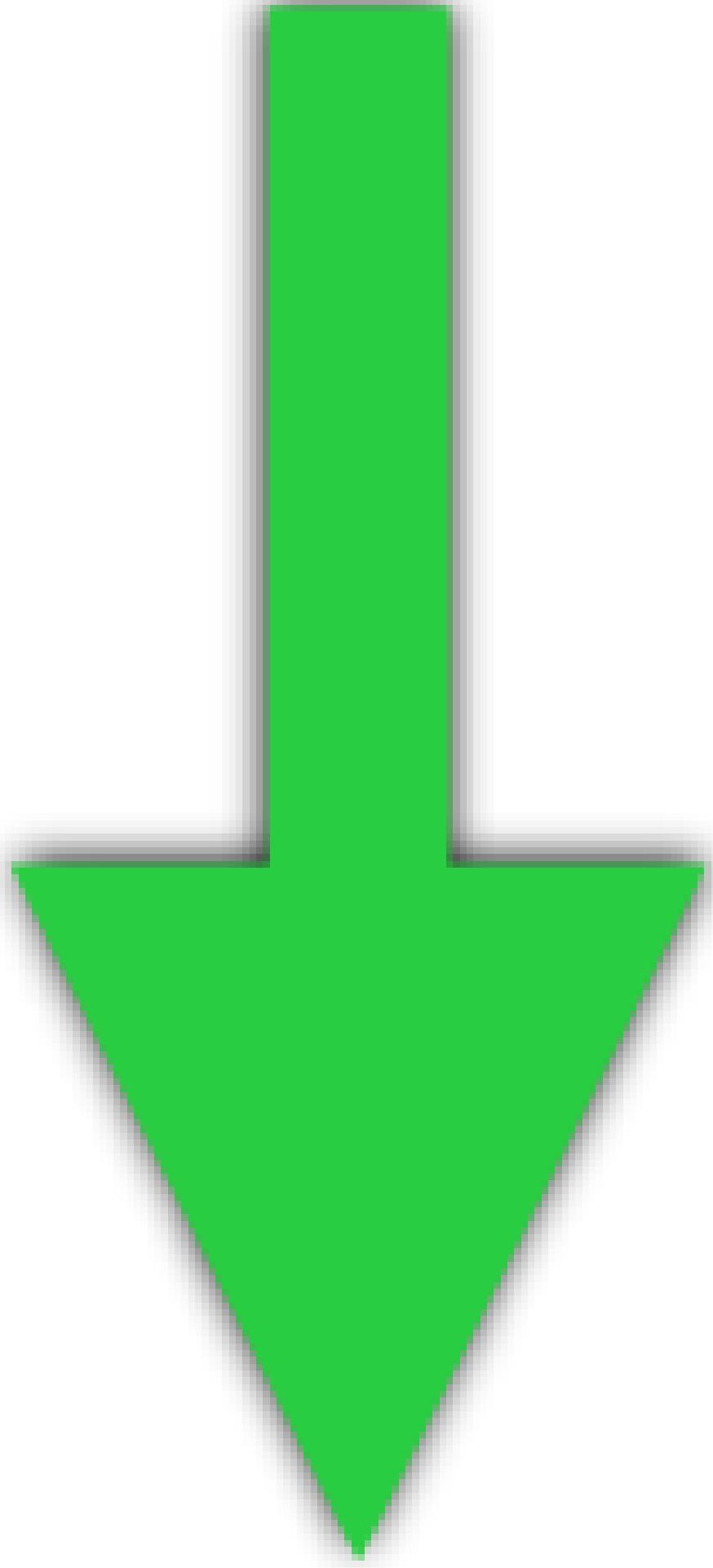












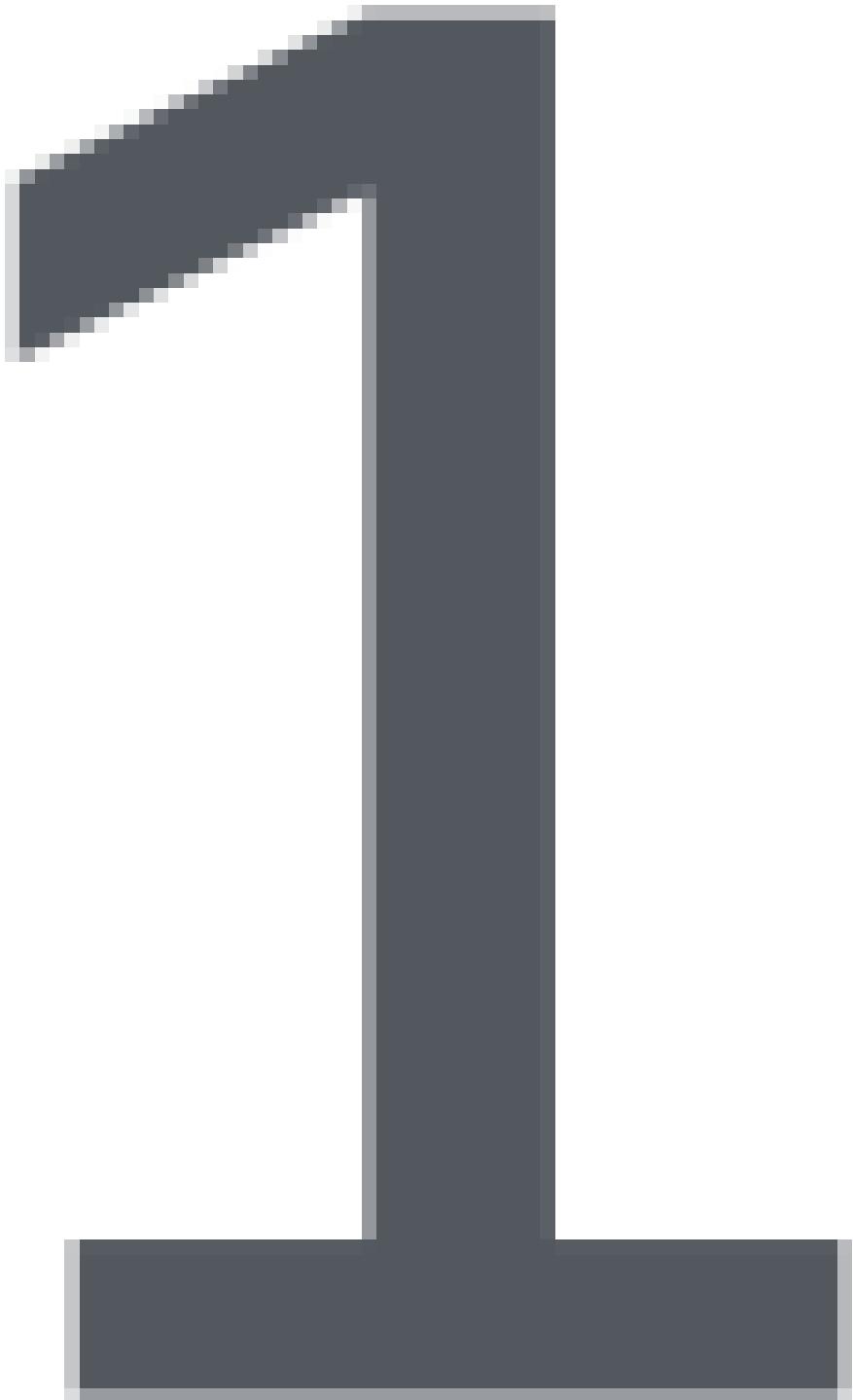


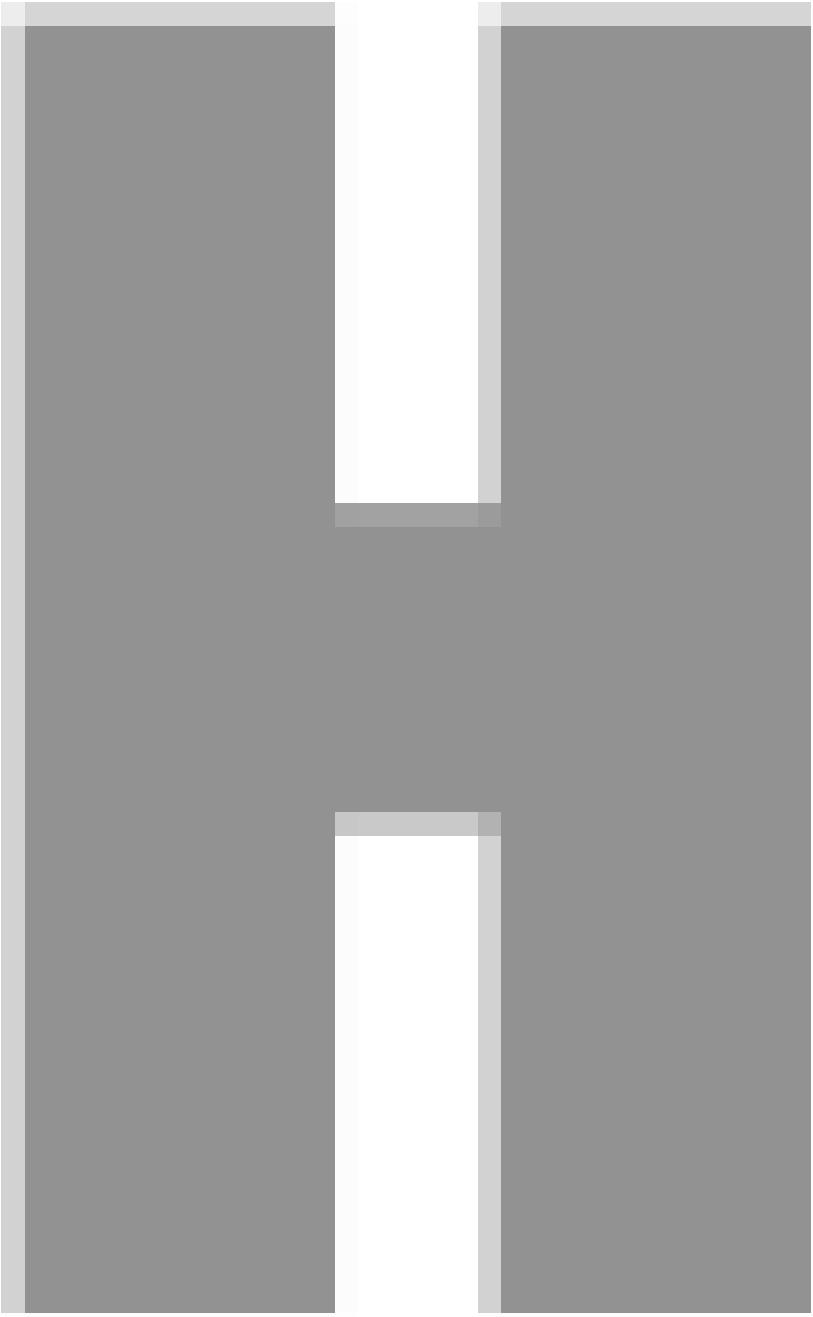




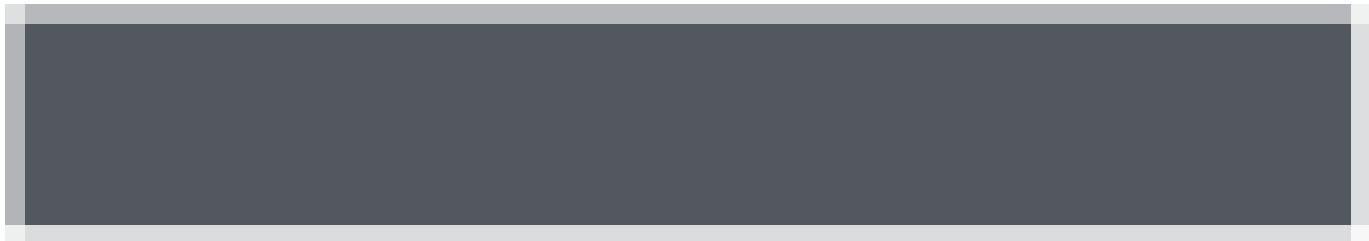
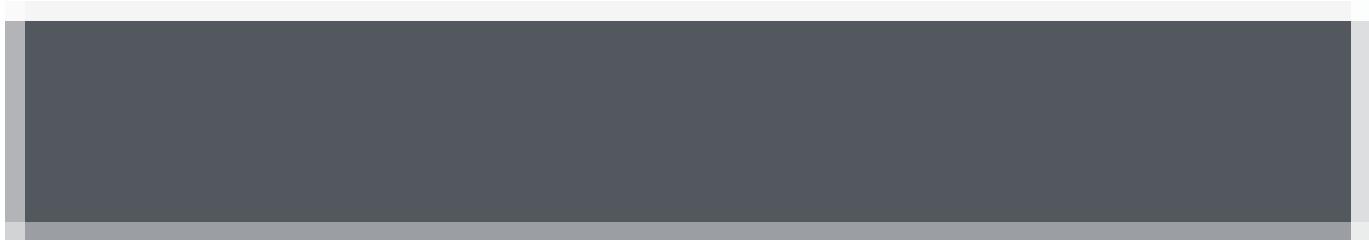






















size = tail - head

$$5 - 2 = 3$$

= FULL

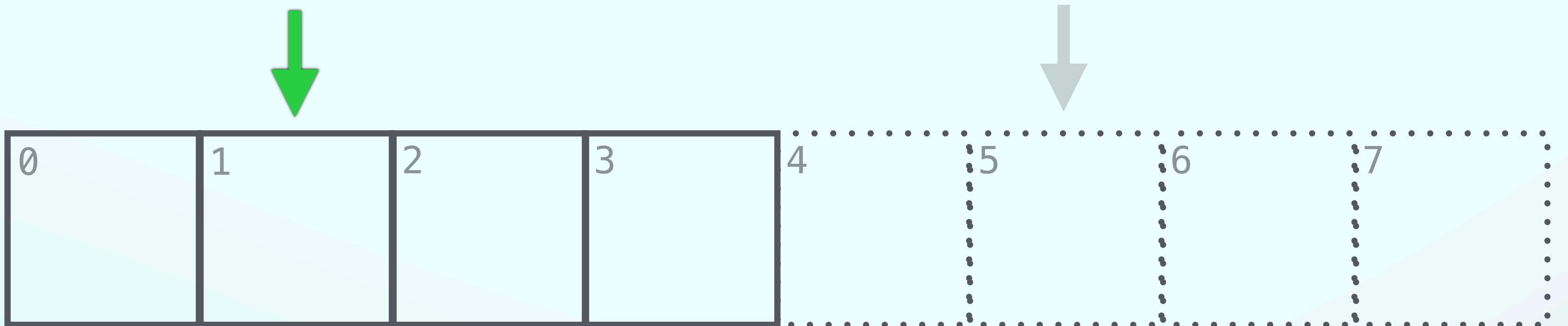
2^2 capacity = 4 = 100b

++tail = 4

capacity - 1 = 3 = 011b

index = tail & 011b
= 0000b

tail/
write



head/
read

0 = EMPTY

Optimisations

Monotonic head/tail counters