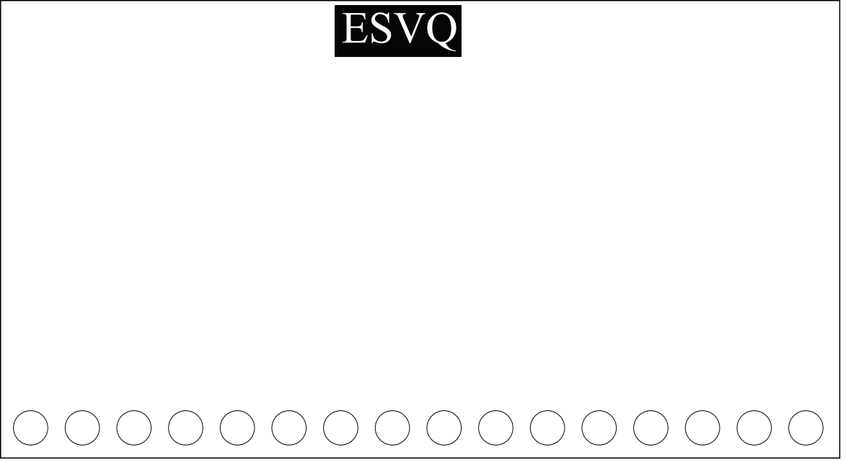

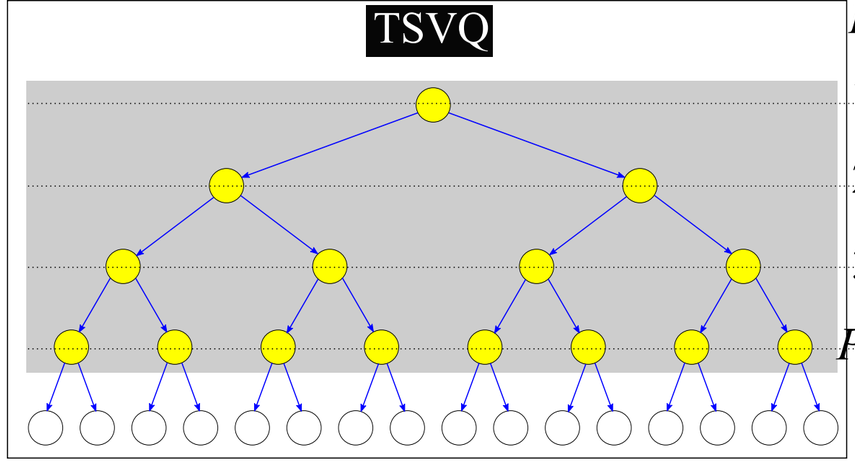

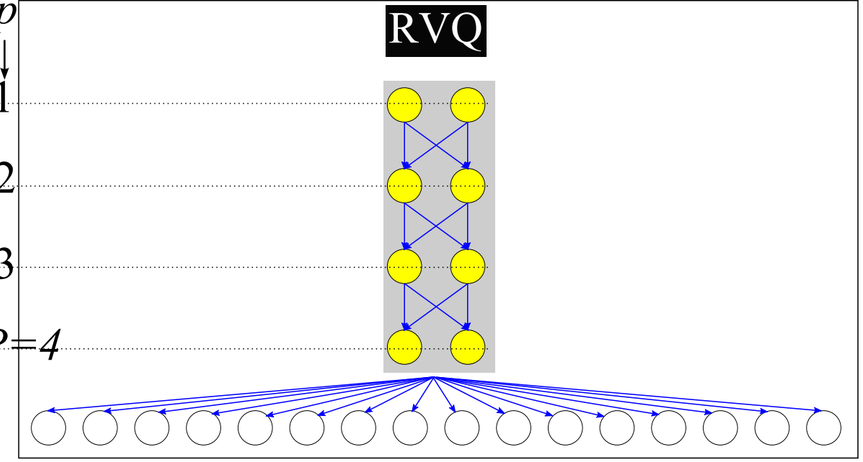

	ESVQ	TSVQ	RVQ
# data points	N	same	same
Vertical dimension, P	-	depth	# stages
Horizontal dimension, M	-	breadth	# code-vectors/stage
Encoding indeces	-	path map	p-tuple
Input dimension	D	same	same
Total codevectors, K	2^{rD}	$2^{rD} = M^P$	same as TSVQ
Rate, r (bits/vector component)	$(\log_2 K)/D$	same	same
# total vectors (test+terminal)	2^{rD}	$MN_n = M\frac{M^P-1}{M-1} \approx \frac{M}{M-1}M^P$	$MP + M^P \approx M^P$
# non-terminal nodes, N_n	0	$\frac{M^P-1}{M-1}$	MP
computations: search ops/stage	1 stage, $O(2^{rD})$	M	same as TSVQ
computations: search complexity	$O(2^{rD})$	$O(MP)$	same as TSVQ
memory	2^{rk}	$MN_n = M\frac{M^P-1}{M-1} \approx \frac{M}{M-1}M^P$	MP
# Input data at stage p	1 stage, N	data starvation $\frac{N}{M^p}$	N

extra storage (worse case: binary)