## **Minimizers**

## Using windows and minimizers

Rather than using a stride w, use a window w

Within the window, have an order (function) which picks a single kmer in that window

In this manner, we have:

window w; kmer size k; order o

Window:

Minimizer: Select the minimum kmer from a window according to an order

Window	Selected kmer (minimizer)
GATCGTACAGTCAGTC	ACAGT
ATCGTACAGTCAGTCA	ACAGT
TCGTACAGTCAGTCAA	ACAGT
CGTACAGTCAGTCAAT	ACAGT
GTACAGTCAGTCAATG	ACAGT
TACAGTCAGTCAATGC	ACAGT
ACAGTCAGTCAATGCA	ACAGT
CAGTCAGTCAATGCAT	AATGC
AGTCAGTCAATGCATT	AATGC

## Minimizers

Sagmont	<b>Minimizer-</b>	
Segment	based bin	
ATGCGATATCGTAGGCGTCGATGGAGAGCTAGATCGATCG	AGAGCTA	
$ATGGAGAGCTAGATCGATCT\underline{AAATCCC}GATCGATTCCGAGCGCGATCAAAGAAATCCC$		
AATCCCGATCGAGCGCGATCAAAGC	AATCCCG	
ATCCCGATCGATTCCGAGCGCGATCAAAGCG	AATCGAT	
$TCCCGATCGATCCGAGCGCGATC\underline{AAAGCG}CGATAGGCTAGCTAAAGCTAGCA$	AAAGCGC	