



# Independent Sampling of Columns

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- $Sx$  can be used to compute what we want to know about  $x$

- *S* can be stored efficiently

- $S_{*j}$  can be generated on-demand

- If each  $S_{*j}$  is independently sampled from a distribution

• **Analysis is easier**



•  $\Omega_2(n)$  space to store  $S$



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# Derandomizing with PRG