

Andoni's Algorithm

$$\bullet \text{Max stability} \Rightarrow \max(\mathbf{e}_1^{-1/p} |x_1|, \dots, \mathbf{e}_n^{-1/p} |x_n|) \equiv \mathbf{e}^{-1/p} F_p(x)^{1/p}$$

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y y_1 $=$ y_m S

E

$e_1^{-1/p}$			
	\ddots		
		\ddots	
			$e_n^{-1/p}$

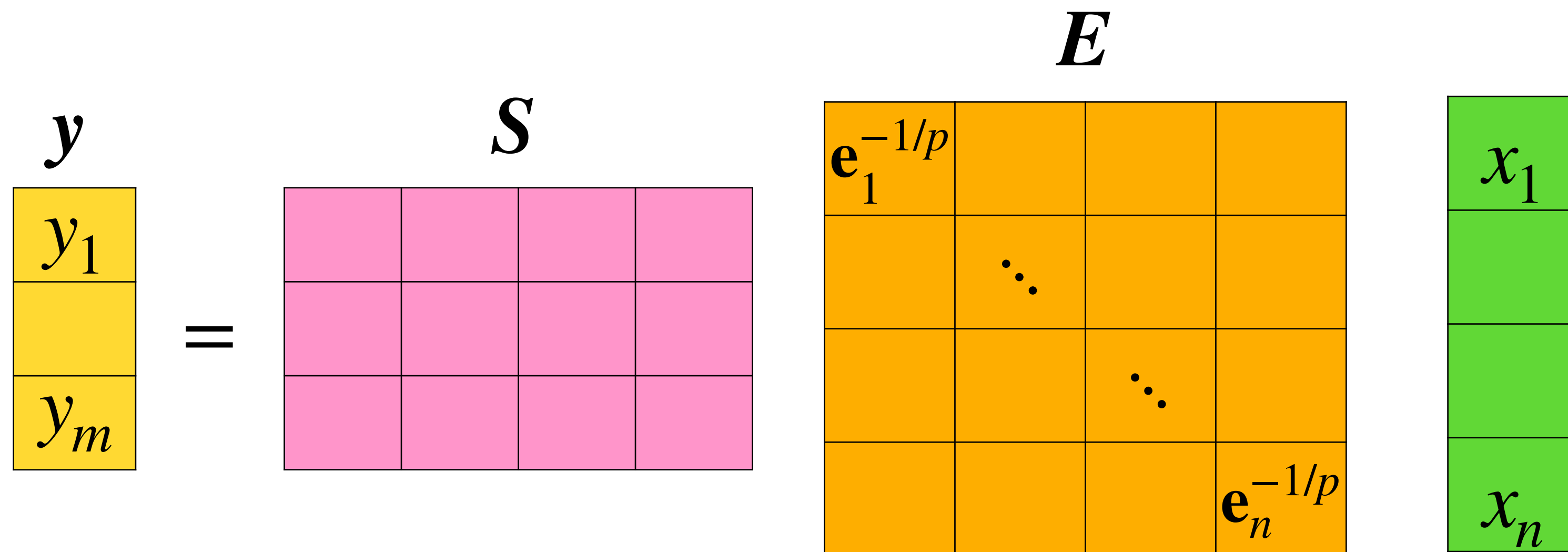
x_1
x_n

$$\|Ex\|_\infty \approx F_p(x)^{1/p}$$

If $m = \Theta(n^{1-2/p} \log n)$, then $\|SEx\|_\infty \approx F_p(x)^{1/p}$

Andoni's Algorithm

- Max stability $\implies \max(\mathbf{e}_1^{-1/p} |x_1|, \dots, \mathbf{e}_n^{-1/p} |x_n|) \equiv \mathbf{e}^{-1/p} F_p(x)^{1/p}$



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Implementing in a Stream