



Sketching

• Techniques developed over last 20 years to handle large datasets

• Shrink the large dataset into a small dataset

• Efficiently perform computation on the small dataset

A

**sk(A)**





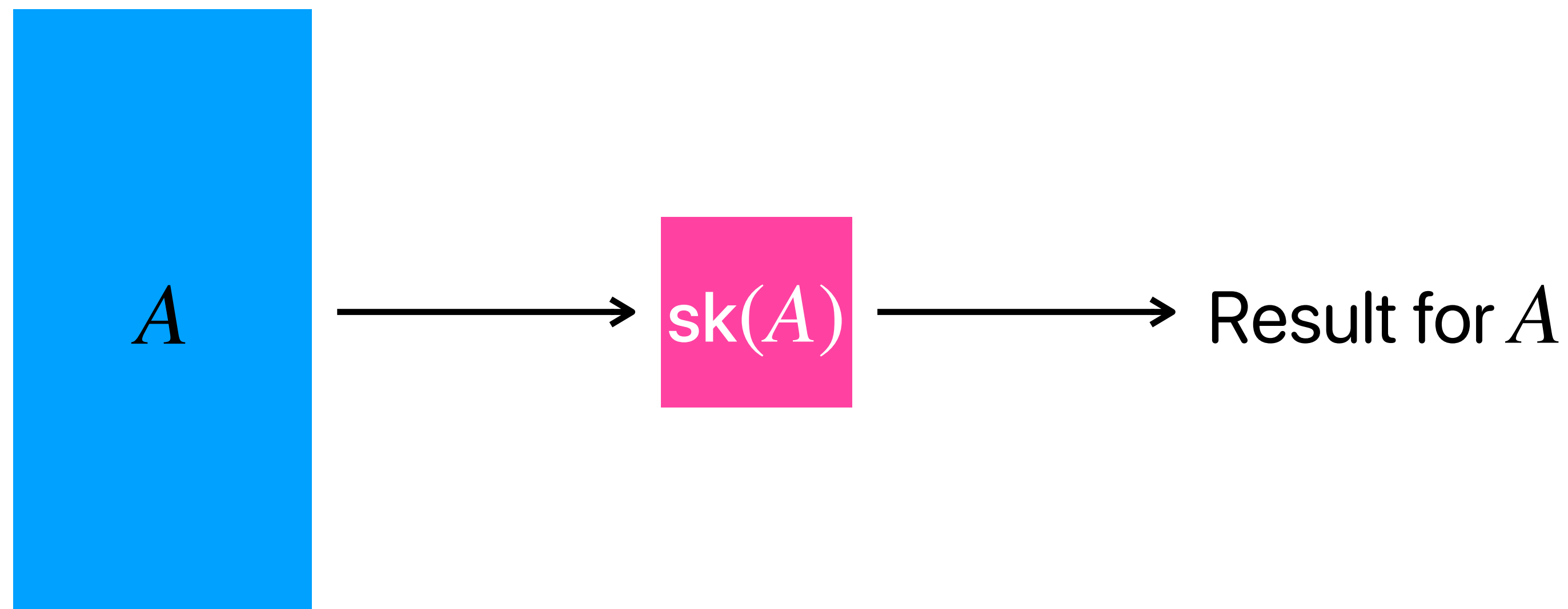


Result for  $A$



# Sketching

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# How is Sketching Useful?