

Key Ideas

• We don't need to preserve the distribution of the sketch

- By more carefully preserving only necessary properties of random variables, we can get by with much weaker PRGs

• Fasthash function evaluation

• Increase branching factor

• **Feval** has function to evaluate retrieval

- Symmetry of the distribution of pseudorandom strings allows us to derandomize more algorithms

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Key Ideas

- We don't need to preserve the distribution of the sketch
 - By more carefully preserving only necessary properties of random variables, we can get by with much weaker PRGs
 - Fast hash function evaluation
- Increase branching factor
 - Fewer hash functions to evaluate for retrieval
- Symmetry of the distribution of pseudorandom strings allows us to derandomize more algorithms

Other Results