## Our Techniques

Nisan's PRG is an example

Indyk '00 showed PRGs for space-bounded computation can be used to construct

sketching matrices

 Slow to retrieve block of pseudorandom bits Leads to slower update times

 Space-vs-time tradeoff: Spend in space to obtain fast update times Symmetry property that lets us derandomize CountSketch

Our new PRG

## Our Techniques

- Indyk '00 showed PRGs for space-bounded computation can be used to construct sketching matrices
  - Nisan's PRG is an example
- Slow to retrieve block of pseudorandom bits
  - Leads to slower update times
- Our new PRG
  - Space-vs-time tradeoff: Spend in space to obtain fast update times
  - Symmetry property that lets us derandomize CountSketch

## HashPRG: Our Construction