

HashPRG: Our Construction

• Two hash functions per level

• Switching $h_1^{(1)}$ and $h_1^{(2)}$ just reorders blocks!

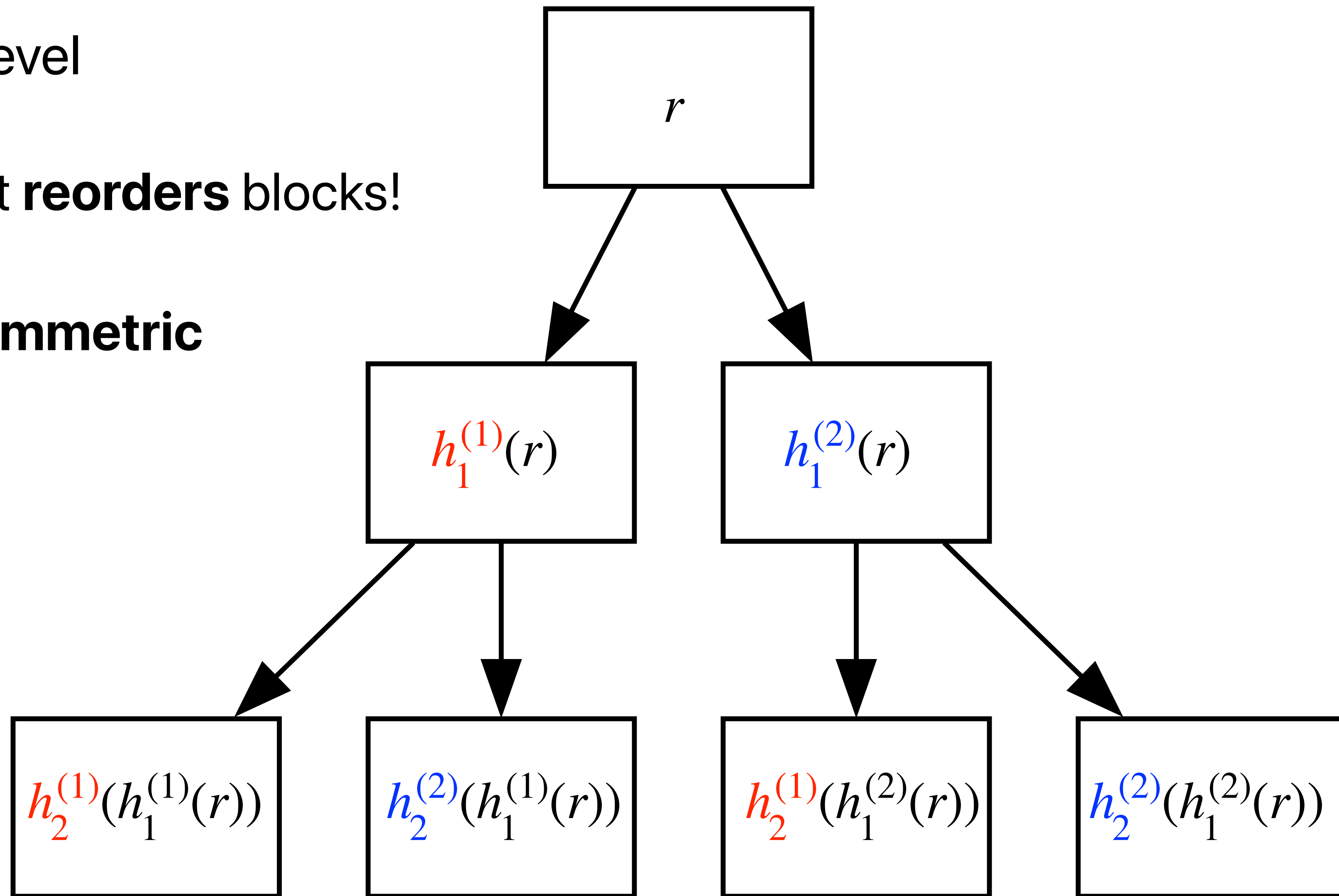
• Distribution of strings is symmetric

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My other works

- **Classic**

- Fast training of Transformers via Sketching [Under Review]
- Fast and Small Subspace Embeddings [SODA '22]
- Dimensionality Reduction for Sum-of-Distances [ICML '21]
- Lower Bounds on Adaptive Sensing for Matrix Recovery [NeurIPS '23]
- Ridge Regression [AISTATS '20], [ICML '22]
- Reduced Rank Regression [COLT '21]