Red-Black Trees

- 1. Map (dictionary) data structure: public Map<Key, Value>
 - a. Hash Map vs. Binary Tree Map
- 2. Red-Black Trees (Guibas and Sedgewick, 1978)
 - a. Guarantees
 - b. Worst case
- 3. Properties of Red-Black Trees
- 4. Proof of bounds
- 5. Maintaining approximate balance
- 6. Implementation & software engineering
- 7. Left-Leaning Red-Black Trees (Sedgewick 2008)