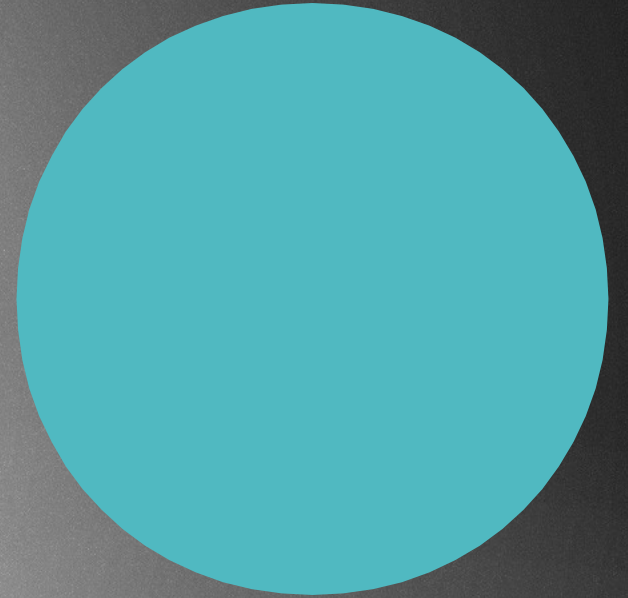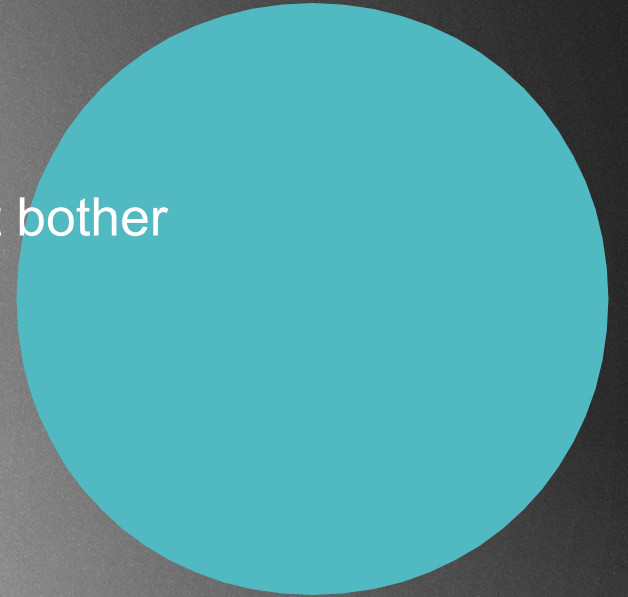# RED-BLACK TREES

Red-black trees

- Linux kernels relies heavily on red-black tree data structure

- Insertion is fast -> because it is not rigidly balanced, we do not bother about making the tree as balanced as possible

- For an insert intensive tasks, use a Red-Black tree !!!

- Java: java.util.TreeMap , java.util.TreeSet

- C++ STL: map, multimap, multiset

AVL

- Rigidly balanced tree and hence provide faster look-ups
- For a look-up intensive task use an AVL tree
- Insertion/deletion is not so fast -> because we keep rebalancing the tree !!!