BST Application

kd-Tree: 2D

$\theta9-B2$

凡见字数，如停匀，即平分一半为上卦，一半为下卦。如字数不均，即
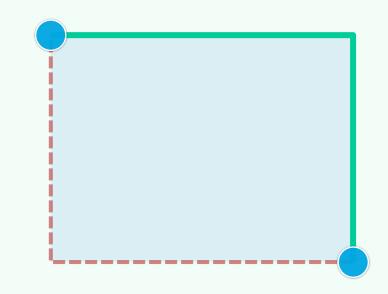少一字为上卦，取天轻清之义，以多一字为下卦，取地重浊之义

邓俊辉

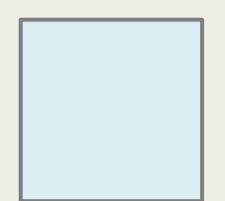deng@tsinghua.edu.cn

Divide-And-Conquer

❖ To extend the BBST method to planar GRS, we

   - **divide** the plane recursively and

   - **arrange** the regions into a kd-tree

❖ Start with a single region (the entire plane)

  Partition the region vertically/horizontally on each even/odd level

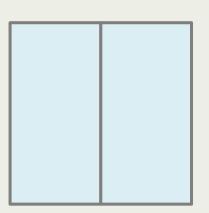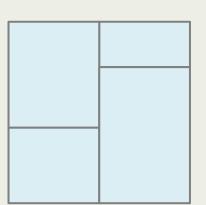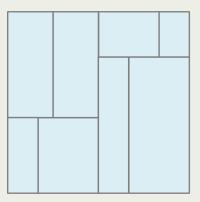 Partition the sub-regions recursively

More Details

❖ **To make it work,**

   - each partition should be done

     as **evenly** as possible (at median)

   - each region is defined to be **open/closed**

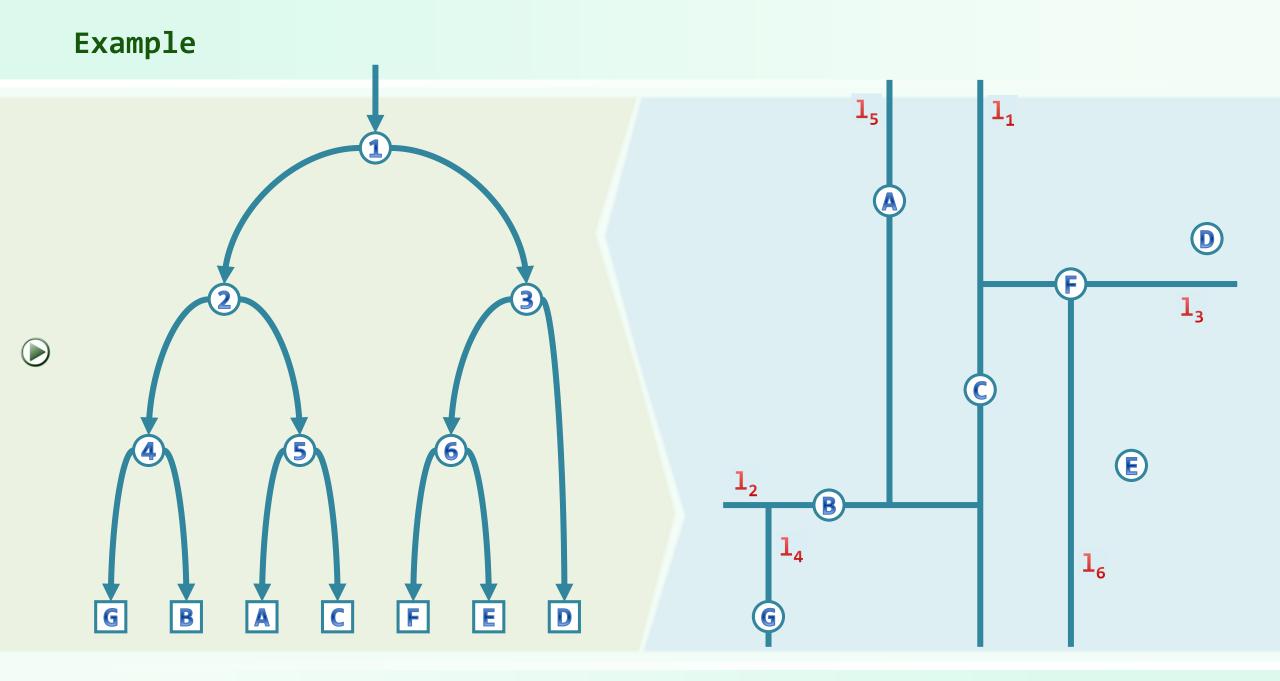   on the **left-lower/right-upper** sides

Quadtree