BST Application

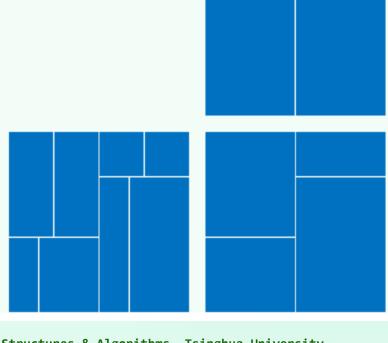
kd-Tree: Canonical Subsets

韦小宝跟著她走到桌边,只见桌上大白布上钉满了几千枚绣花针,几千块碎片已拼成一幅完整无缺的大地图,难得的是几千片碎皮拼在一起,既没多出一片,也没少了一片。



Canonical Subset

- Each node corresponds to
 - a rectangular sub-region of the plane, as well as
 - the subset of points contained in the sub-region
- ❖ Each of these subsets is called a canonical subset
- For each internal node X with children L and R,
 region(X) = region(L) ∪ region(R)
- Sub-regions of nodes at a same depth
 - never intersect with each other, and
 - their union covers the entire plane
- ❖ We will see soon that each 2D GRS can be answered by the union of a number of CS's



Example

