Binary Search Trees

November 5, 2013

1 Introduction

A binary search tree is a data structure were each node contains

- key
- satellite data
- left child pointer
- right child pointer
- **p** parent pointer

It has the following property:

• Let x be a node in a binary search tree. If y is a node in the left subtree of x, then $y.key \le x.key$. If y is a node in the right subtree of x, then $x.key \le y.key$.

2 Deletion the Most Interesting Operation

The code (look at the slides) can be explained graphically:



