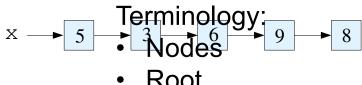
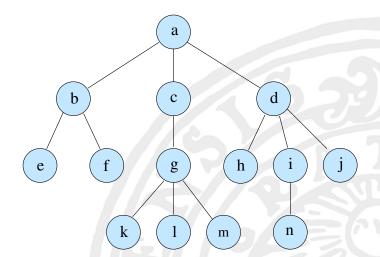


## MA3: Tree structures

#### Tom Smedsaas



- Root
- Leefs
- Children
- Siblings
- Height
- Size

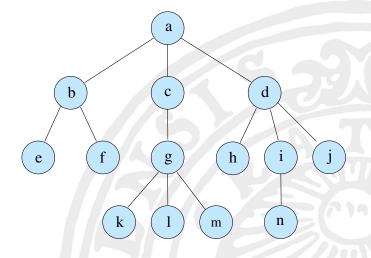




## Operations in trees

#### Operations on trees:

- Enter new nodes
- Remove nodes
- Traverse the tree
- Search a node with a particular contents
- Search a node in a particular position
- Merge trees
- Measurements:
  - Height
  - Size
  - Path length



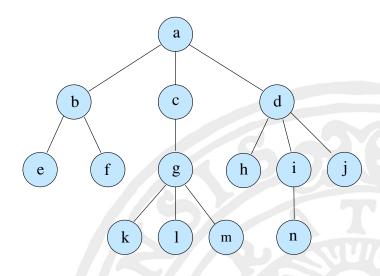


## Tree traversals

Preorder: abefcgklmdhinj

Postorder: efbklmgchnijda

Level order: a b c d e f g h i j k l m n





#### Far Mor Mor Barn Barn Far Mor Barn Mor Mor Mor Mor Barn Barn Barn Barn

# More complicated structures



## The end