## CPSC 353: More AST ## What do you do w/ AST? · Pretty point · Type Checking We will impliment Visitor design pattern to seperate Manigation code from the Object/structure · Navigation goes into class called visitor Visitor gatter element objectures structures Clement A & Rement B accept(visitor) accept(visitor) · Must define method accept (visitor V) & overide method for each Child method · V. Visit (Athis);

· Define Visitor function for every concrete element Class Visitor 1001/-Visit / Element Ak Visit (Elevent 136) Double Dispush Visitor visit (ElemA4) } Visit (Elen 14 rode) need to do something w/ element pode cont a clement A stuff < c'(n'; for ( Element B e : elem Bs

e. accept (\* this);

Expr Node aust (Visitoit) Value Node PLUS Node Times Node expribade this EXPENDED The Token Value ExpINOdet ths ExprNode + rks accept (Visitoge) accept(visitarde) aucet (Visitara) Visitor Void Visit (VALLENODEA) useful part of ASTS Void Visit (Plus Nodeds) methods Type Checker PrintVisitar visit / Value Noded nod-) Joid. cont LL Node. Value lexerted) LZ " \n "; visit ( Plus Nodek node) Void node. Ihs -> accept (\*this); cont 4 " + "

node. This - accept (\*this);

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