Don't Repeat Yourself

How to code better

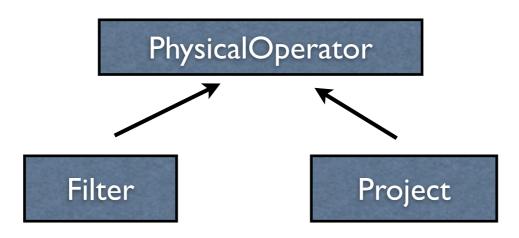
- Good: Don't Repeat Yourself
- Bad: Copy & Paste

Don't repeat yourself

- Every piece of knowledge must have a single, unambiguous, authoritative representation within a system.
- Single Source of Truth
 - http://en.wikipedia.org/wiki/
 Single Source of Truth
 - http://en.wikipedia.org/wiki/
 Don't_repeat_yourself



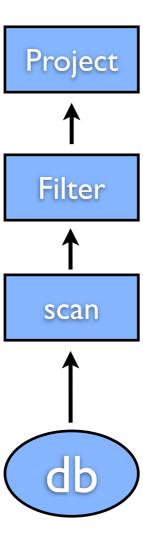
Example I



Example I

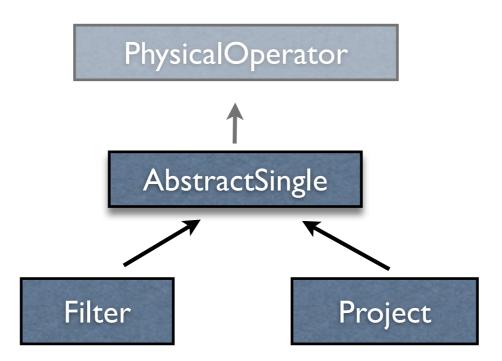
Project.child

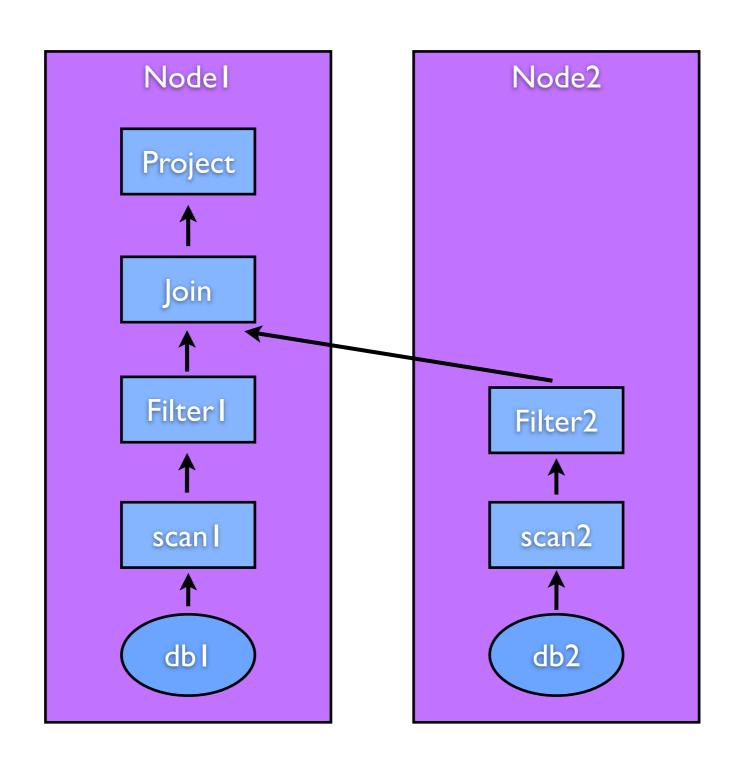
• Filter.child



- Single Source of Truth: Every piece of knowledge must have a single, unambiguous, authoritative representation within a system.
 - Project.child
 - Filter.child

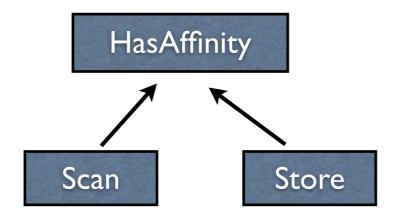
Example I

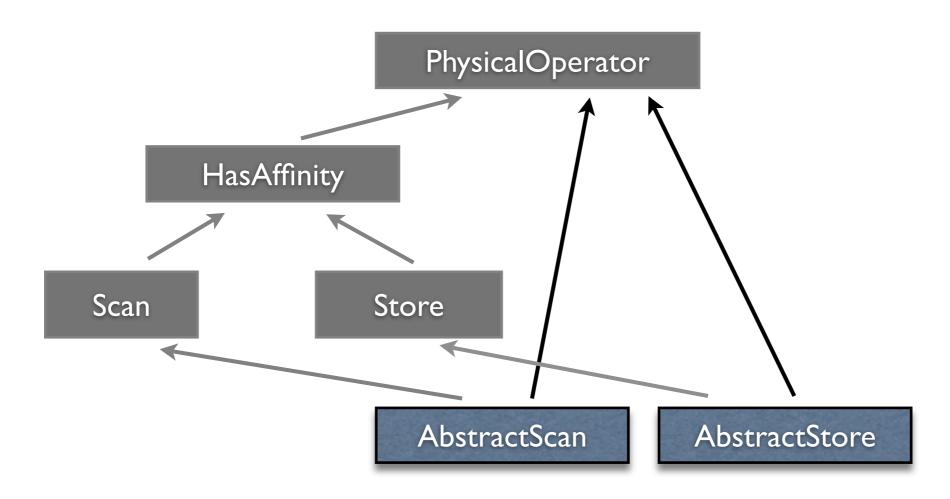




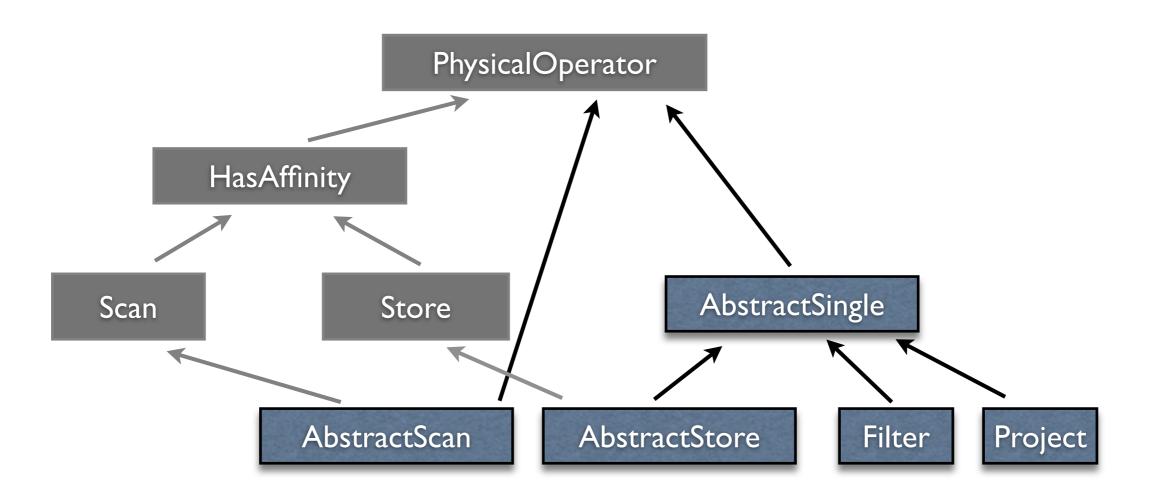
- Some physical operator that has affinity to particular nodes.
 - Scan: Affinity information with nodes
 - Store: Affinity information with nodes

- Single Source of Truth: Every piece of knowledge must have a single, unambiguous, authoritative representation within a system.
 - Scan: Affinity information with nodes
 - Store: Affinity information with nodes





- Questions
 - Why "multiple inherent"?
 - Why interface Store, class Filter?
 - Why no AbstractHasAffinity?



LogicalOperator

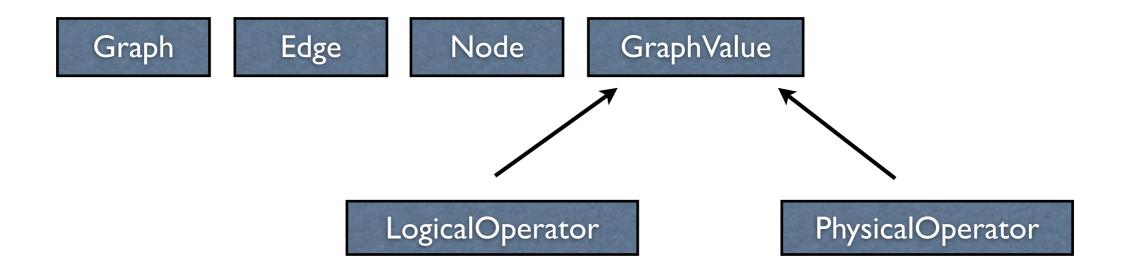
PhysicalOperator

- LogicalOperator & PhysicalOperator
- DAG
 - LogicalOperator:LogicalPlan
 - PhysicalOperator:PhysicalPlan

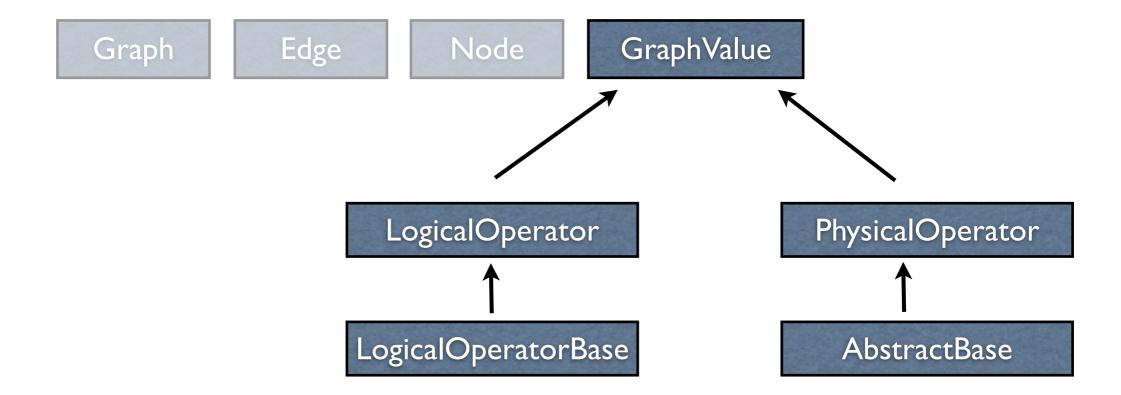
- Single Source of Truth: Every piece of knowledge must have a single, unambiguous, authoritative representation within a system.
 - LogicalOperator:LogicalPlan
 - PhysicalOperator:PhysicalPlan

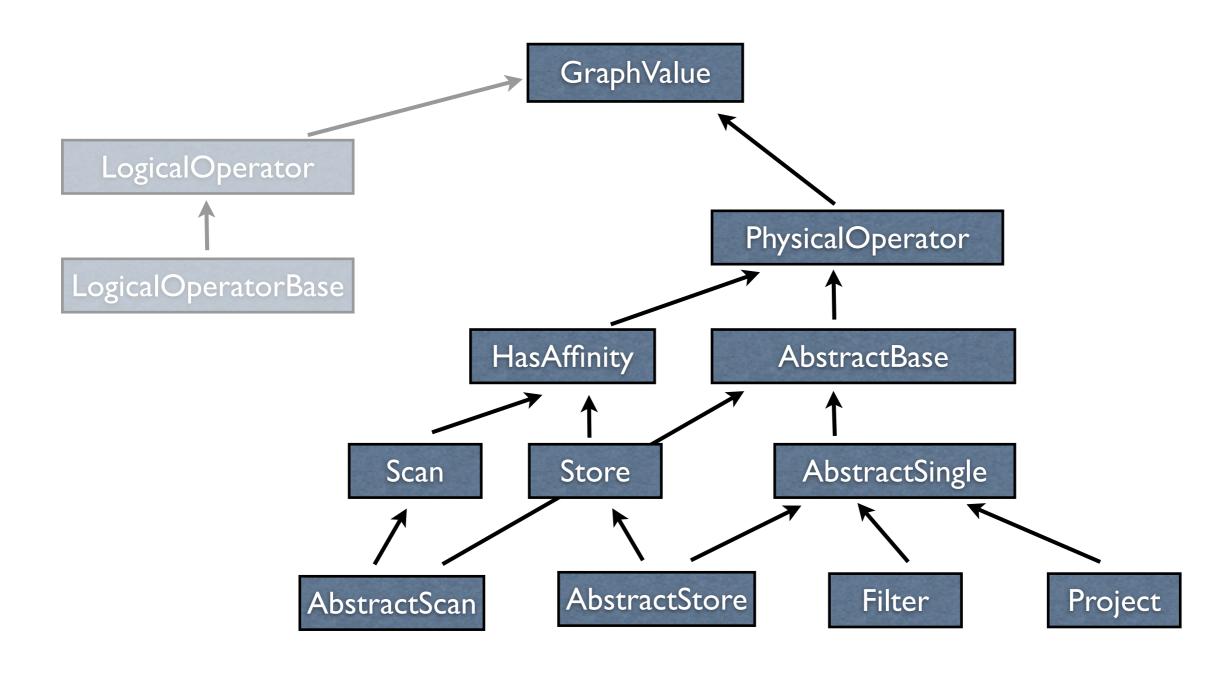
Graph Edge Node GraphValue

DAG



- Traverse in DAG
 - DP: Visitor
 - GraphVisitor
 - enter()
 - visit()
 - leave()
 - GraphValue
 - visit(GraphVisitor visitor)





- Method Reuse
 - org.apache.drill.exec.planner.PhysicalPlanReader
 - org.apache.drill.common.util.PathScanner
 - java.lang.String

• org.apache.drill.exec.planner.PhysicalPlanReader