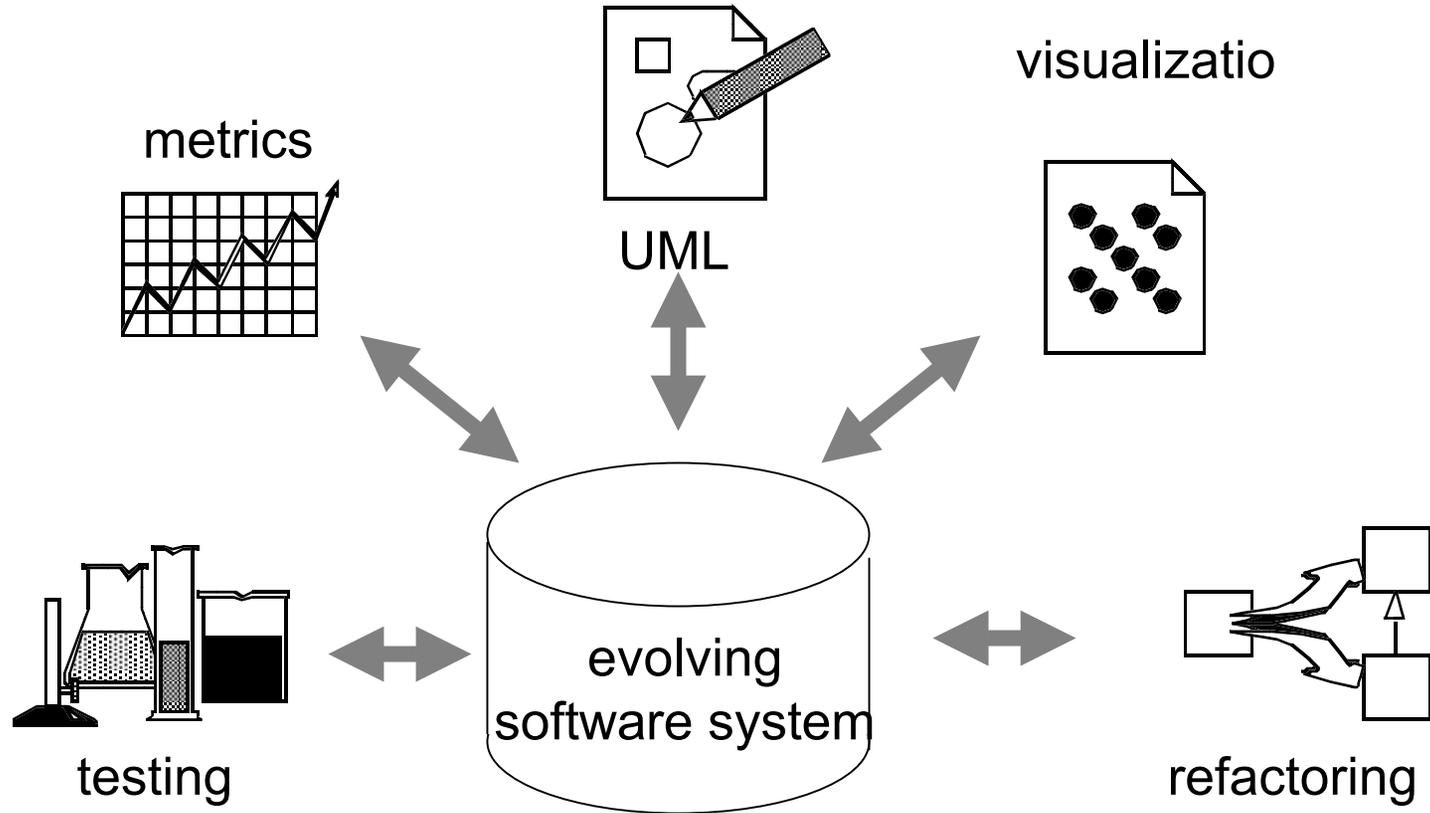


Software Evolution Techniques



Which techniques do complement each other ?



Research Method

Empirical Survey

- reliable results



- time and effort



Case Study

- lightweight

- credibility

*Agree on a representative set of case-studies
=> BENCHMARK*



Characteristics	Case studies			
<ul style="list-style-type: none"> • Life Cycle (analysis, design, ...) 	<ul style="list-style-type: none"> • Toy Example (LAN -Simulation) 	<ul style="list-style-type: none"> • Industrial System (VisualWorks & Swing) 	<ul style="list-style-type: none"> • Public Domain (HotDraw & ET++) 	<ul style="list-style-type: none"> • Open-source (Mozilla)
<ul style="list-style-type: none"> • Evolution (scale, #iterations, ...) 				
<ul style="list-style-type: none"> • Domain (problem, solution, ...) 				



Discussion

- Does it makes sense to define a benchmark ?
 - Would you use it ? yes no
- Are the characteristics complete / minimal ?
 - Improvements ? (other benchmarks ?)
- Are the cases representative ?
 - Other cases ? (analysis, non-oo, embedded/distributed)
- Are the cases replicable ?
 - re the cases replicable ?

