## Software Architecture

Lecture 9 Service-Oriented Architectures

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| previously   |  |
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| data flow<br>batch sequential<br>dataflow network (pipe & filter)<br>acyclic, fan-out, pipeline, Unix<br>closed loop control | data-oriented repository<br>transactional databases<br>stateful client-server<br>blackboard<br>modern compiler |
| call-return<br>main program/subroutines<br>information hiding - objects<br>stateless client-server<br>SOA                    | data-sharing<br>compound documents<br>hypertext<br>Fortran COMMON<br>LW processes                              |
| interacting processes<br>communicating peers<br>event systems<br>implicit invocation<br>publish-subscribe                    | hierarchical<br>tiers<br>interpreter<br>N-tiered client-server   |
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