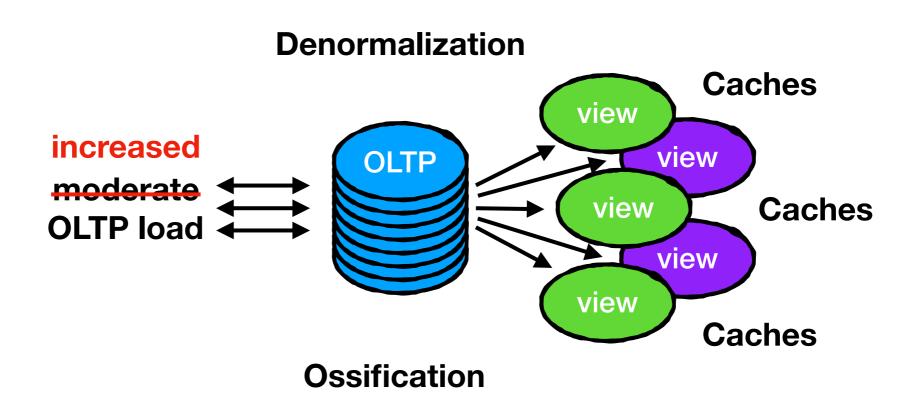


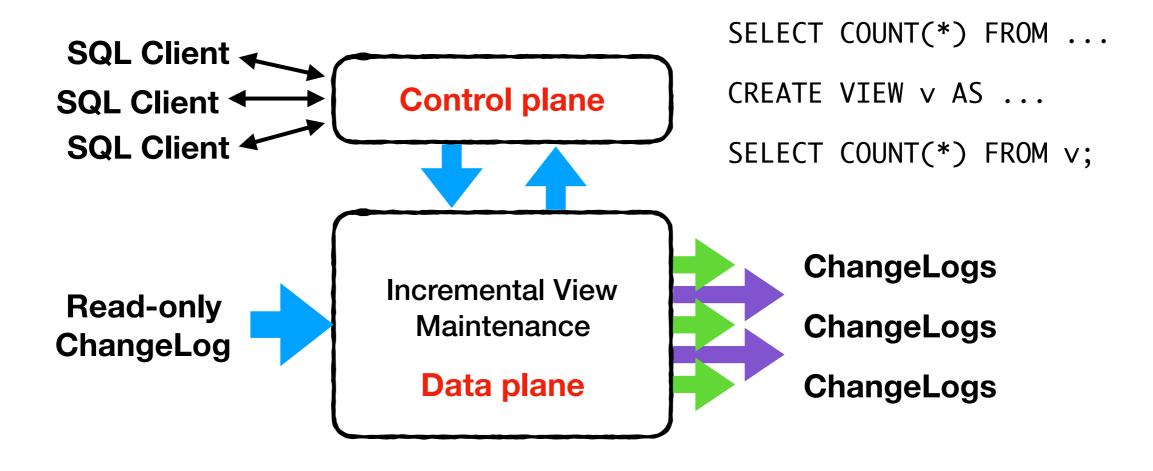
MATERIALIZE

Why is Materialize?

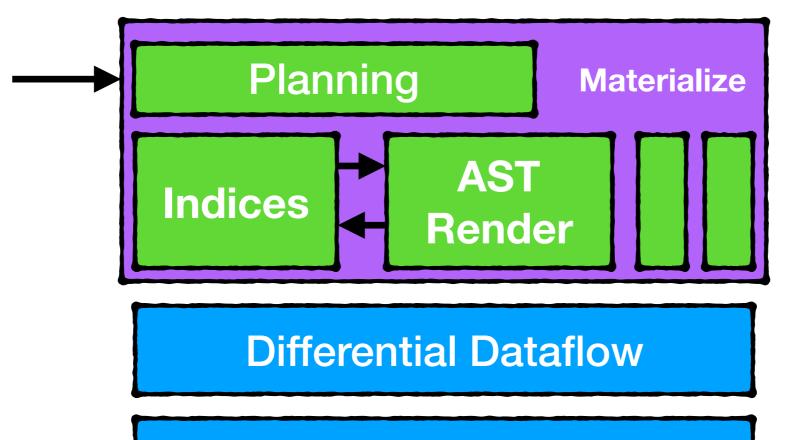


What is Materialize?

"incremental view maintenance offload"

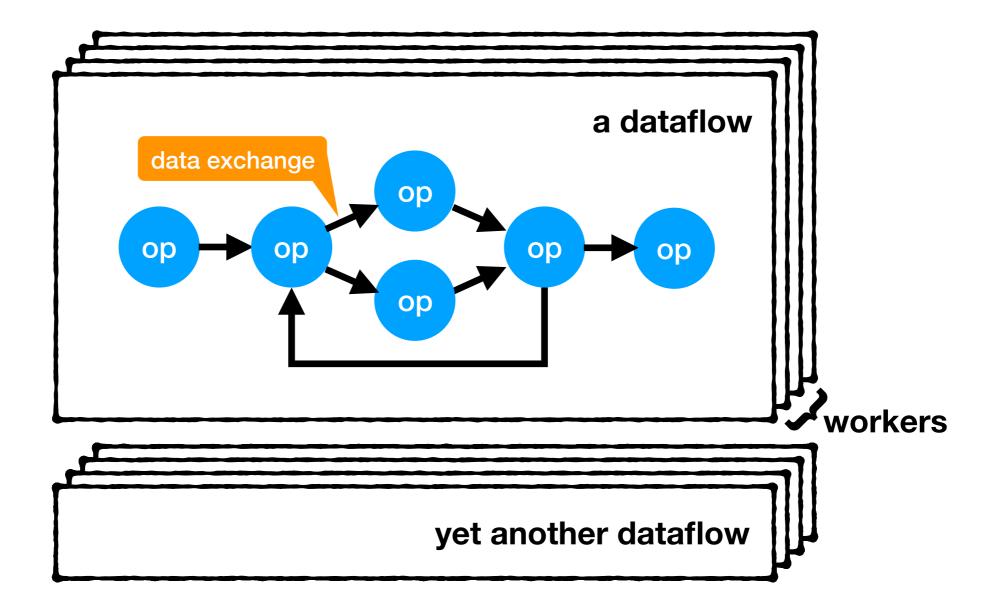


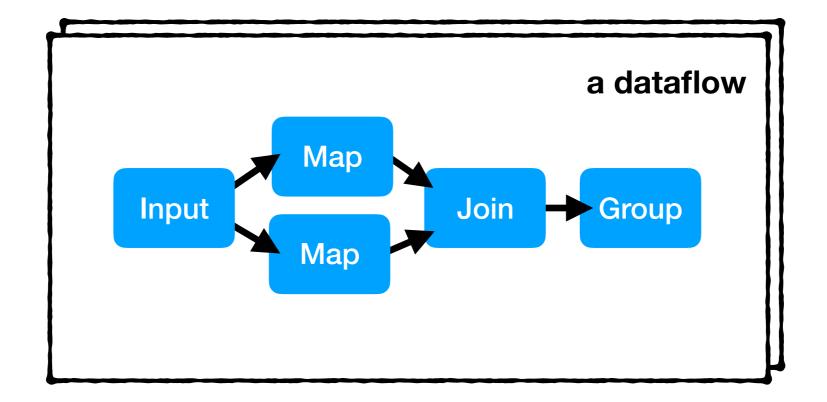
The Materialize Stack



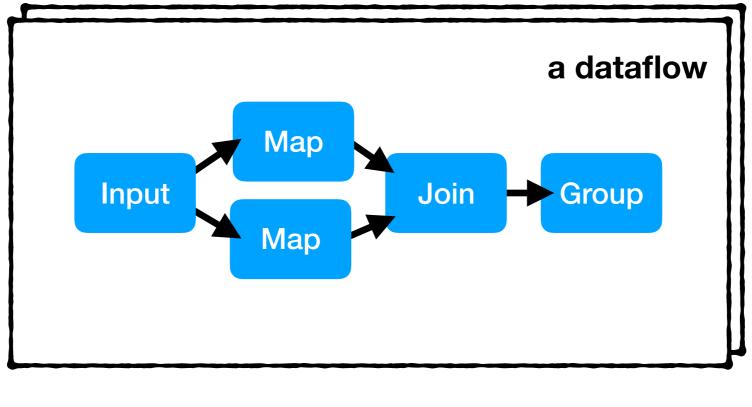
Timely Dataflow

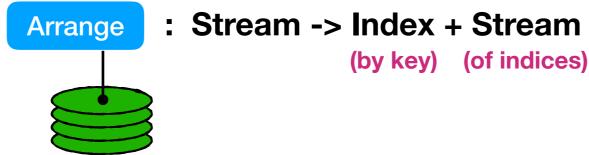
Timely Dataflow

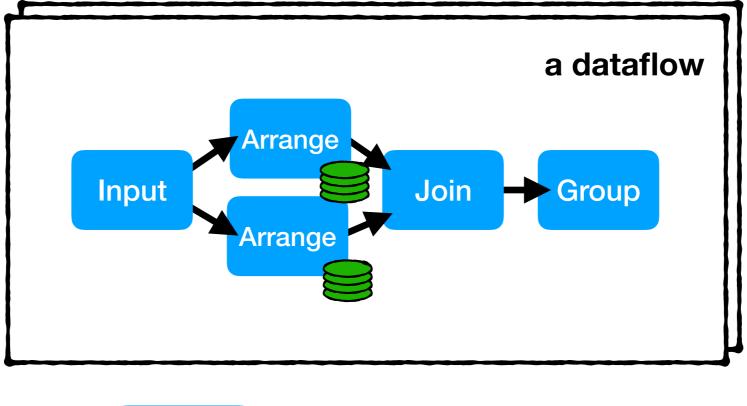




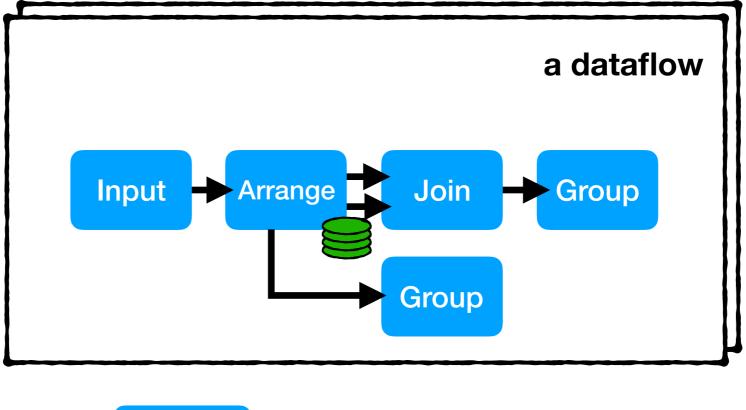
Streams of "updates": (data, time, diff) Operators produce "correct" output stream. e.g. u64

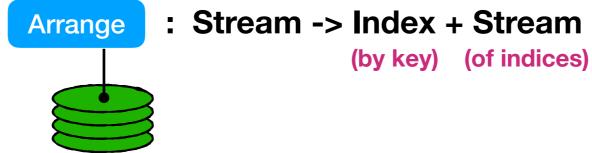


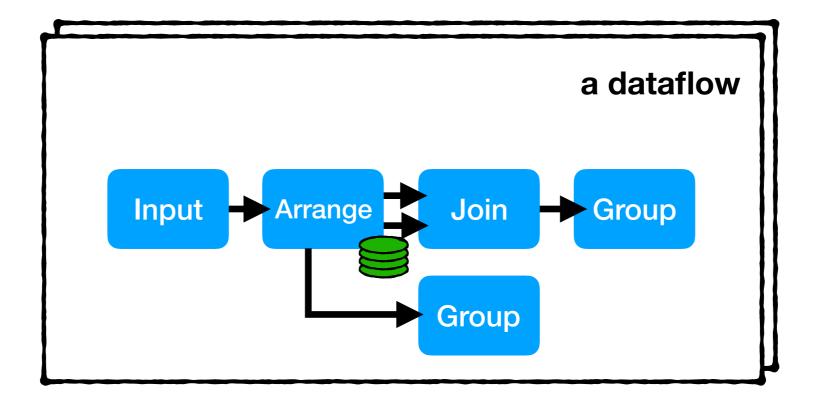


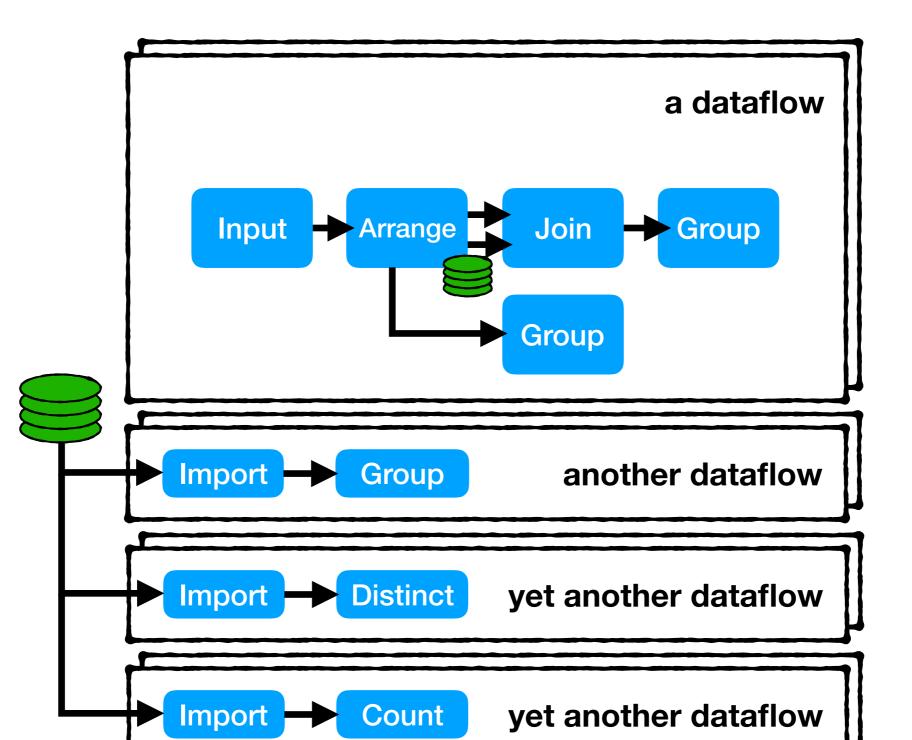


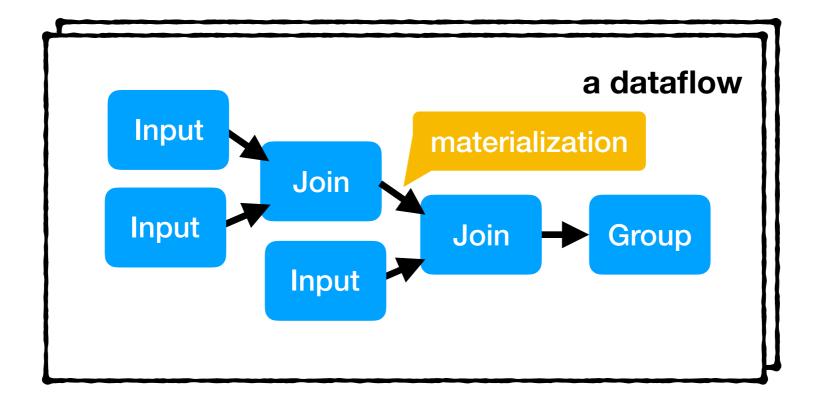


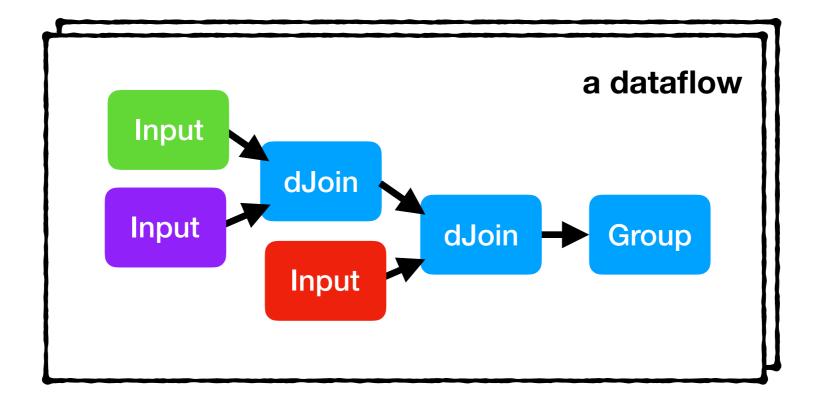


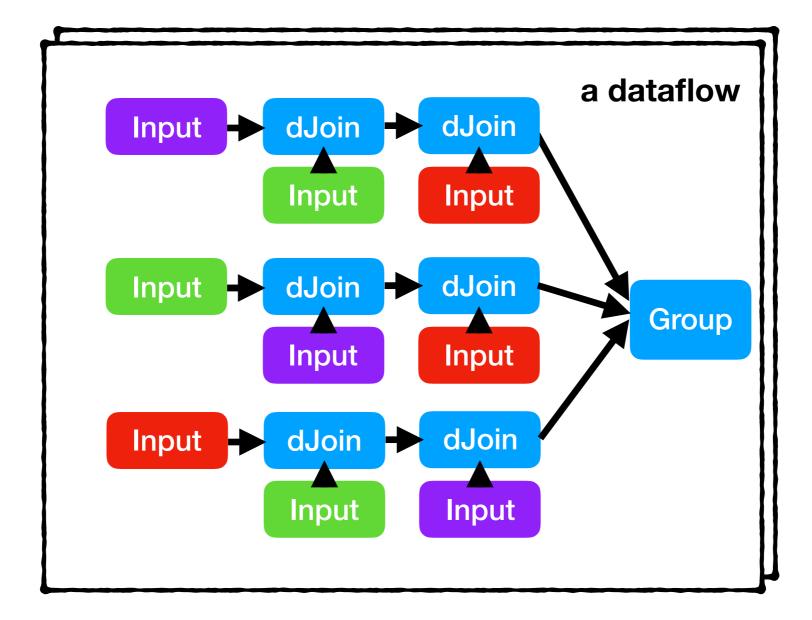


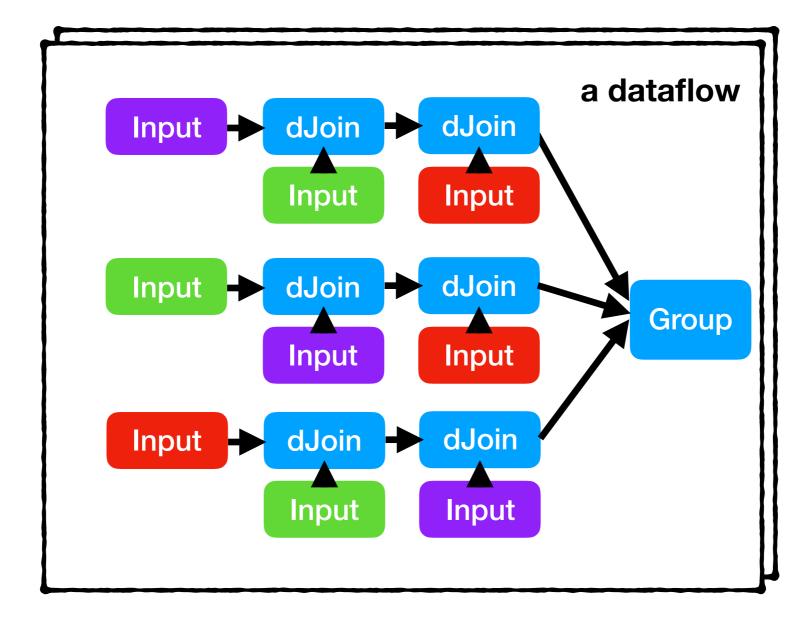








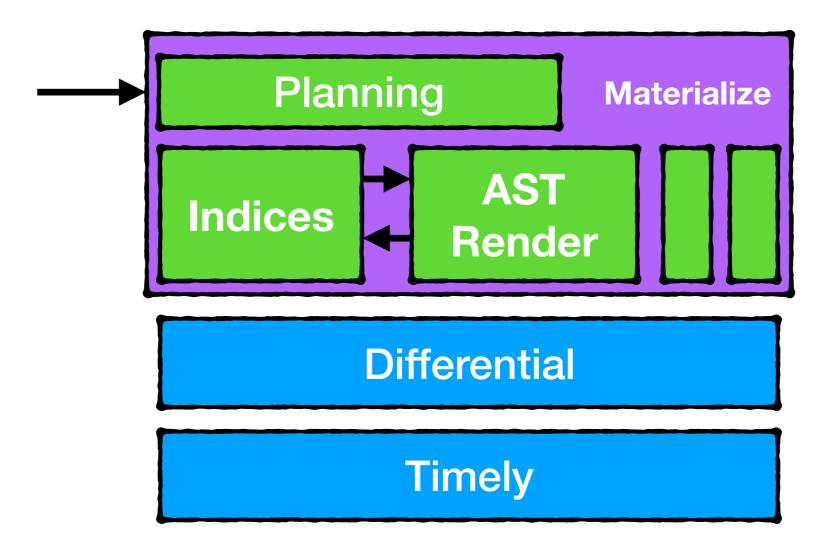




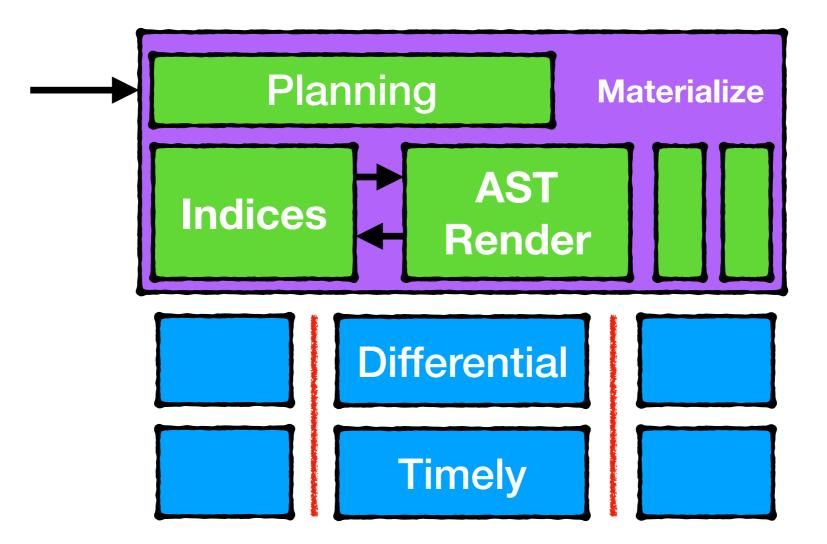
Advanced Topic 3: Iteration

	a dataflow
Works great!	

The Materialize Stack



The Materialize Stack





MATERIALIZE.io

@frankmcsherry