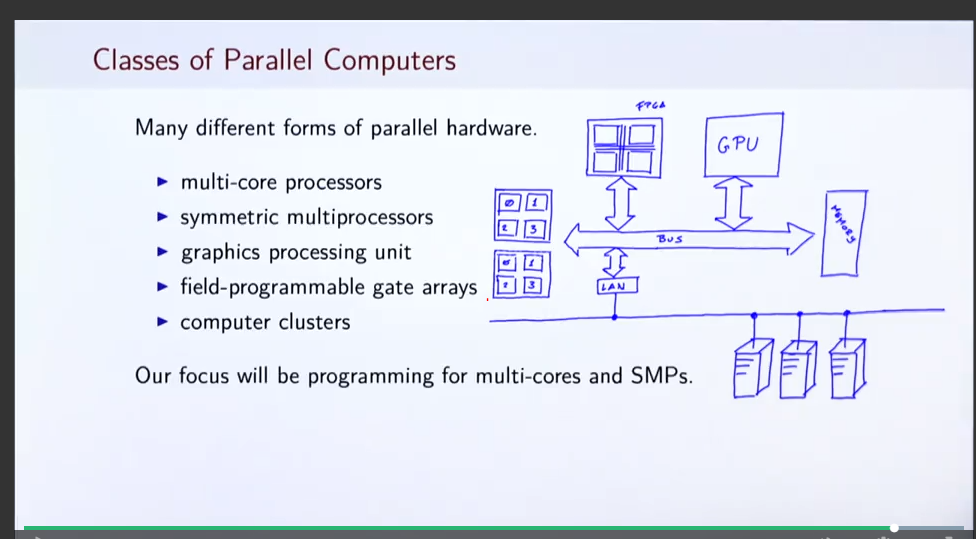
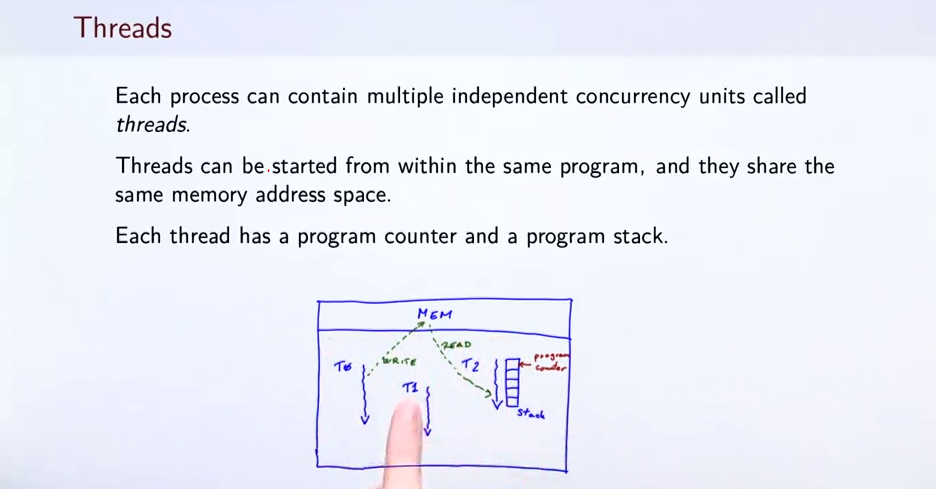
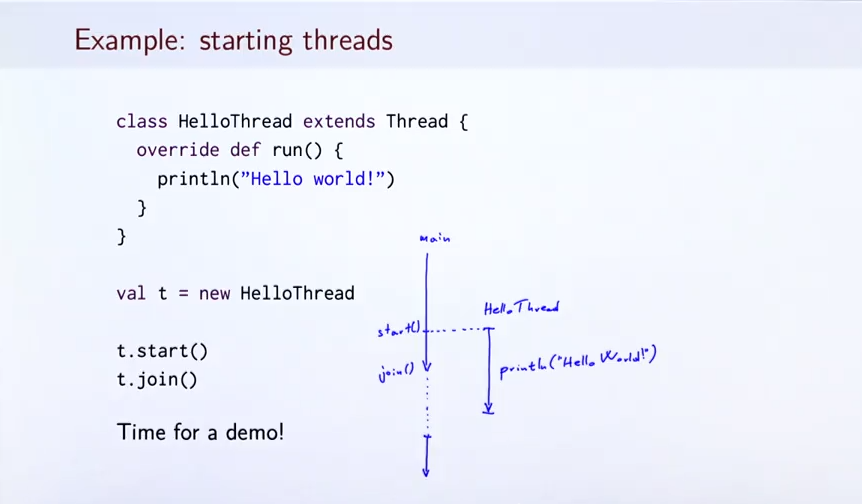
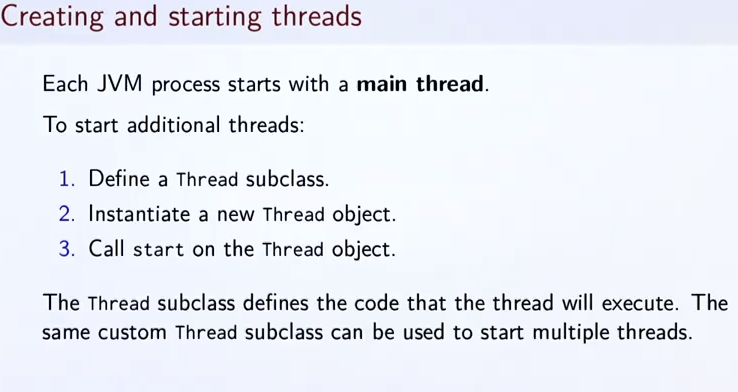
Reference: Coursera

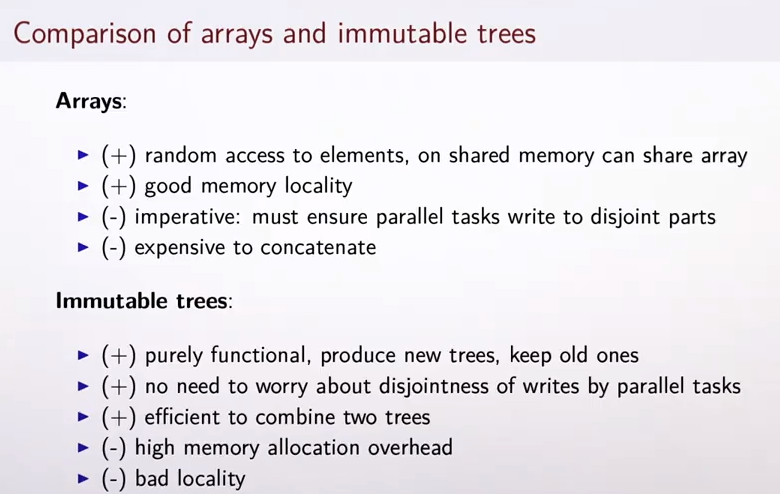


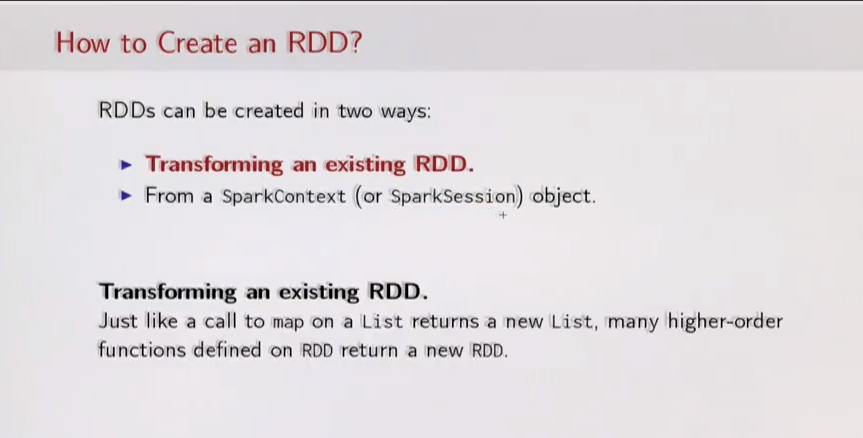


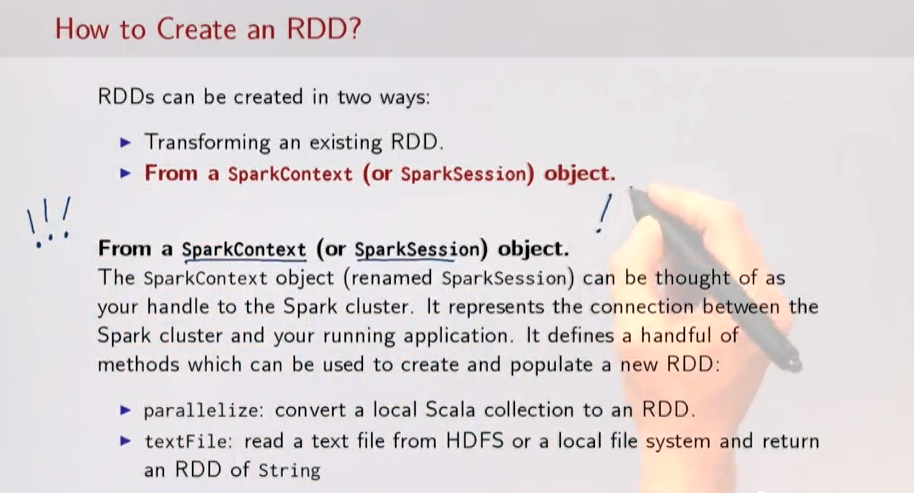
Main thread stops until hello thread completes









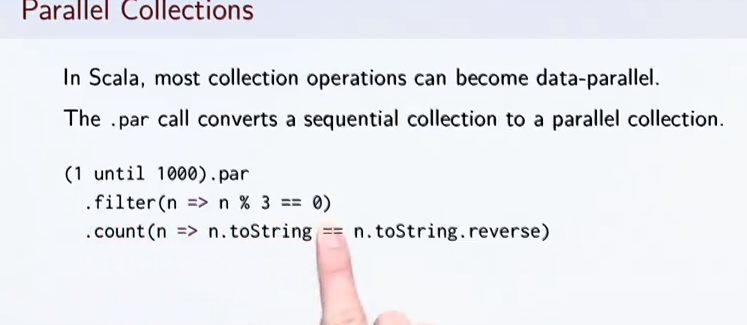


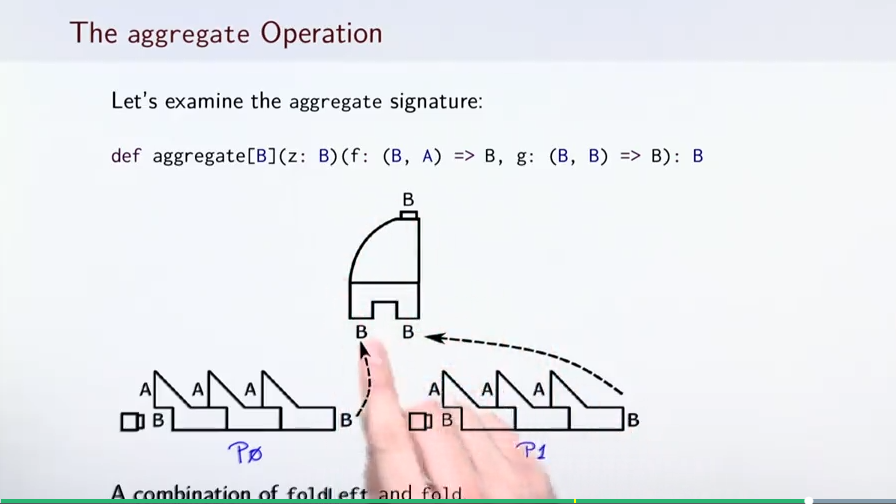
Data parallelism:

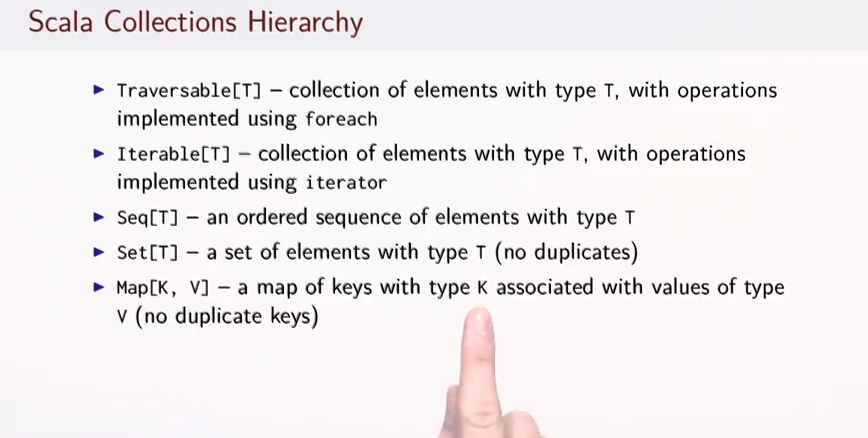
Same computation on different part of data

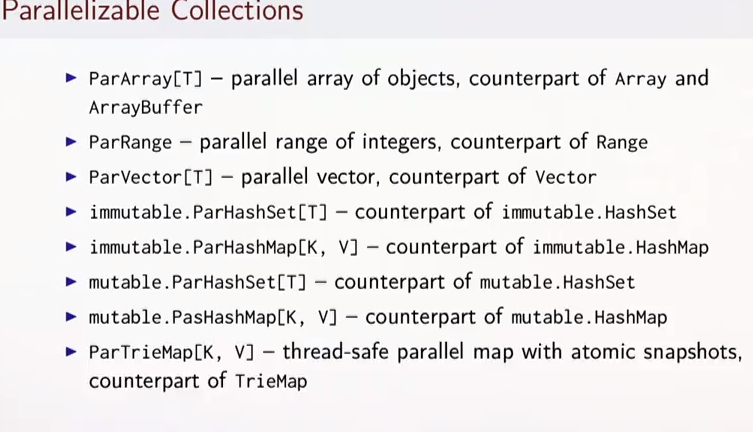
Data parallel scheduler goal is to schedule parallel job without rogrammer knowledge

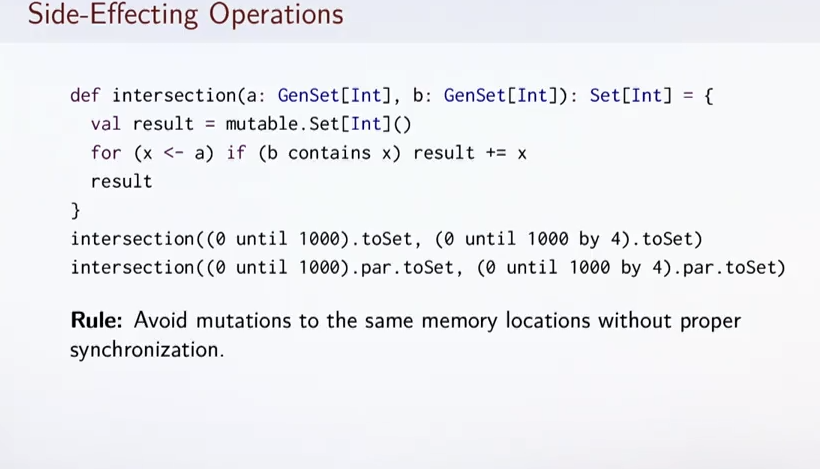
.par



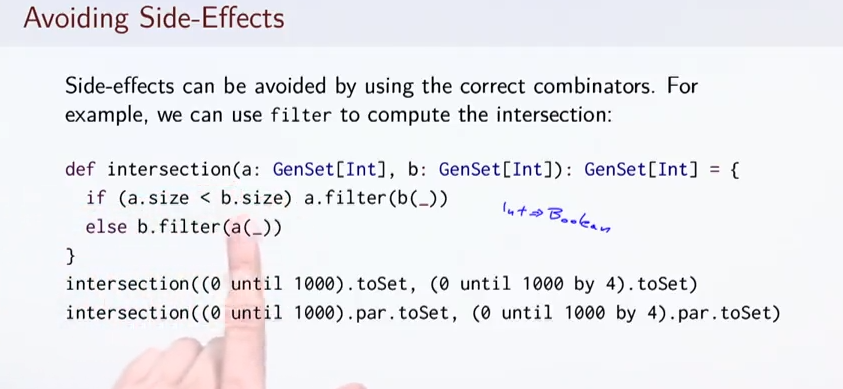


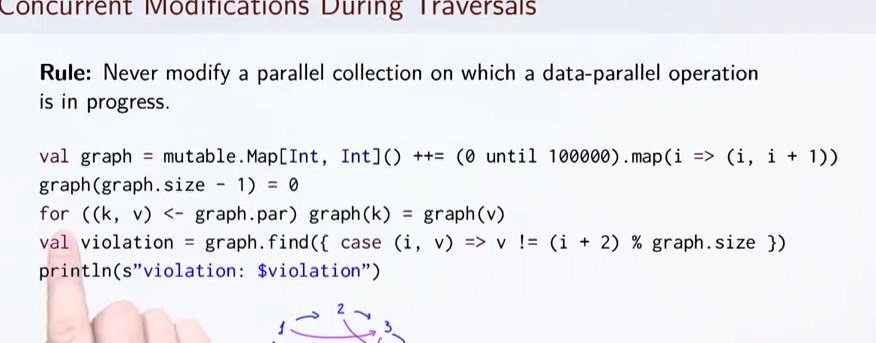


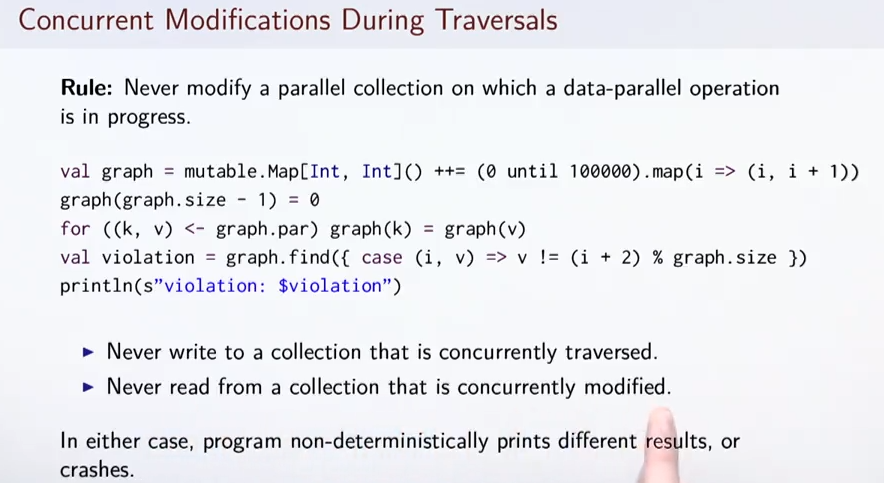




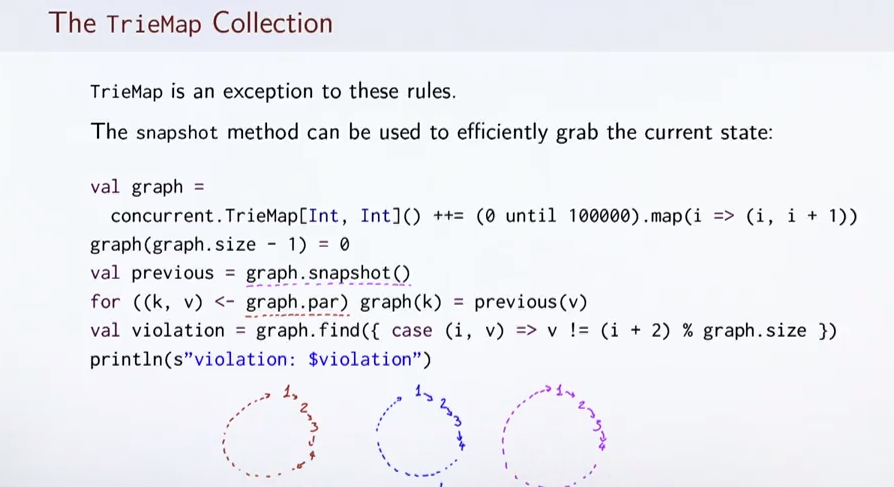
Soln: just rewrite x with parallel collection







Snapshots to ACCESS PREVIOUS STAES

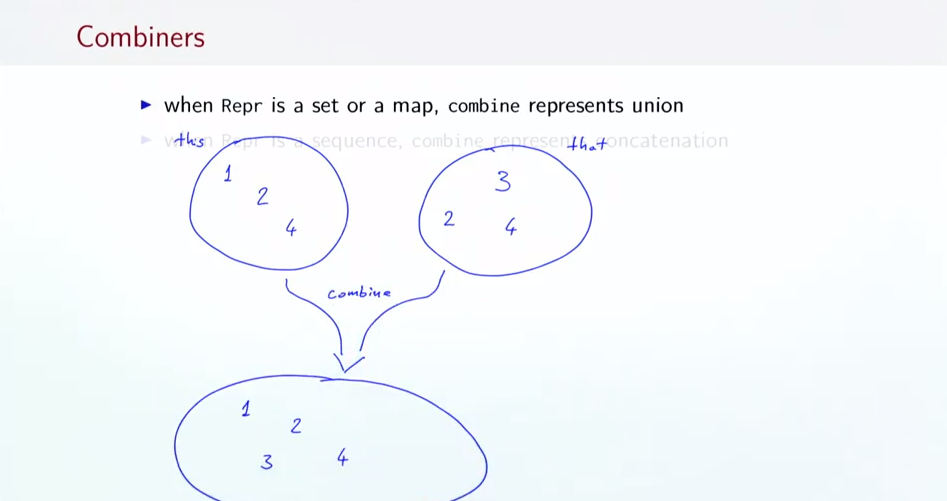


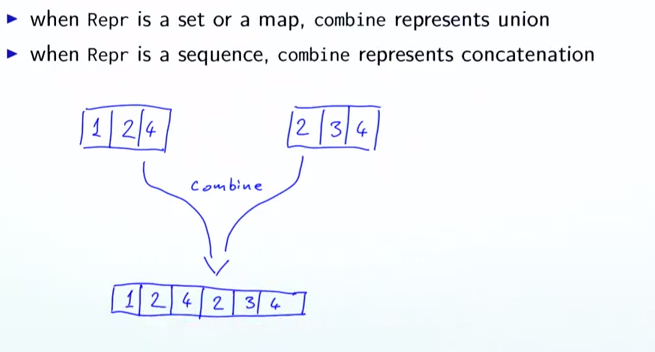
Builder and Combiners

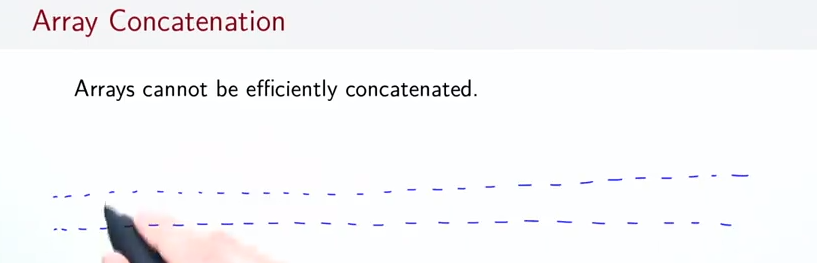
Builders for sequential Builder of new collections

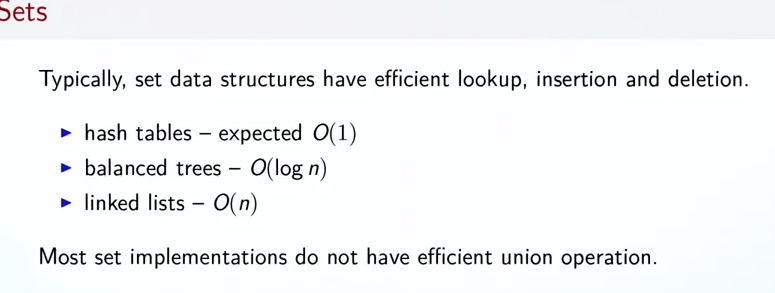
Cmbiners : for Parallel collections

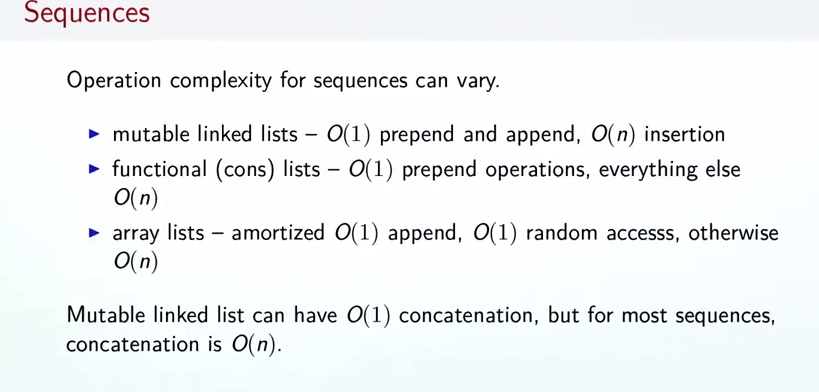
such as **GenSeq** or **GenMap**, can be implemented either with a parallel or a sequential collection.











Implementing combiners / unions is a challenge

