

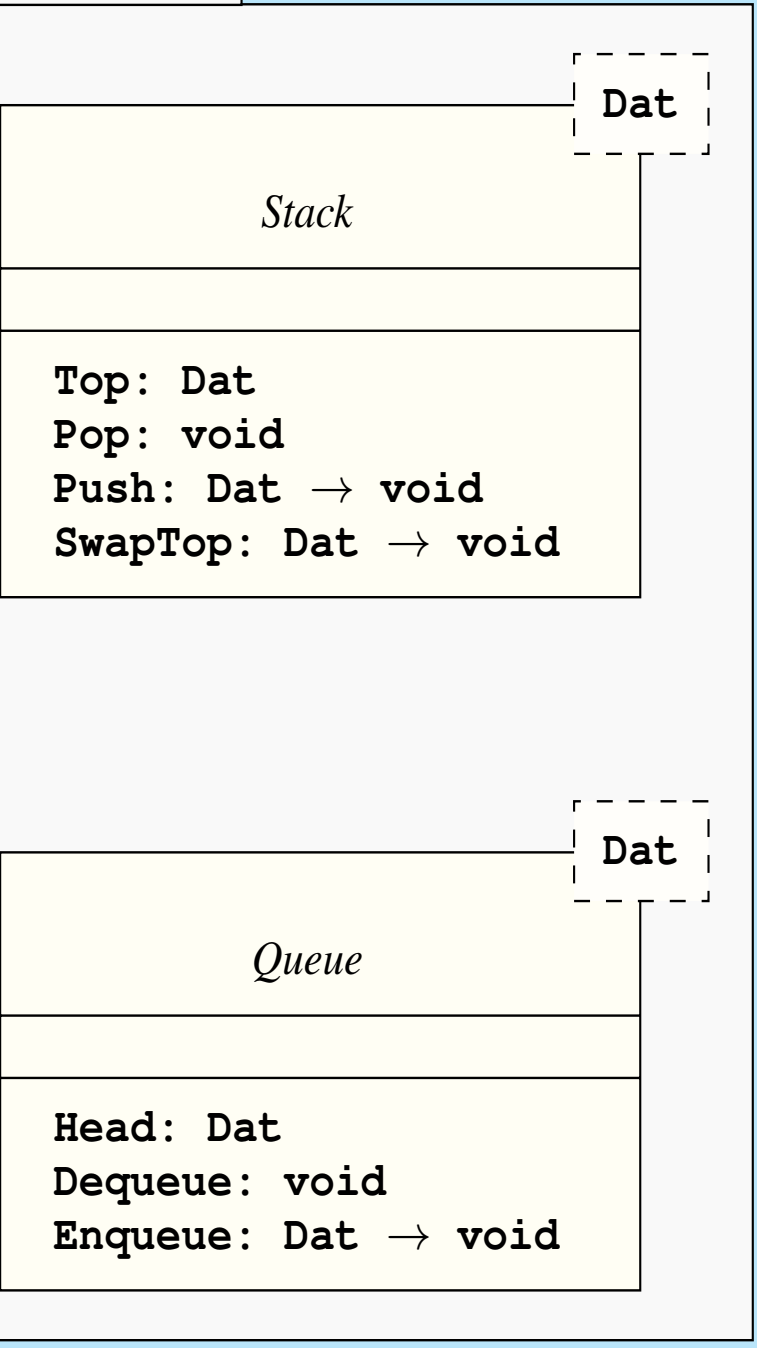
Analysis and Design of Data Structures

Massimo Benerecetti & Fabio Mogavero

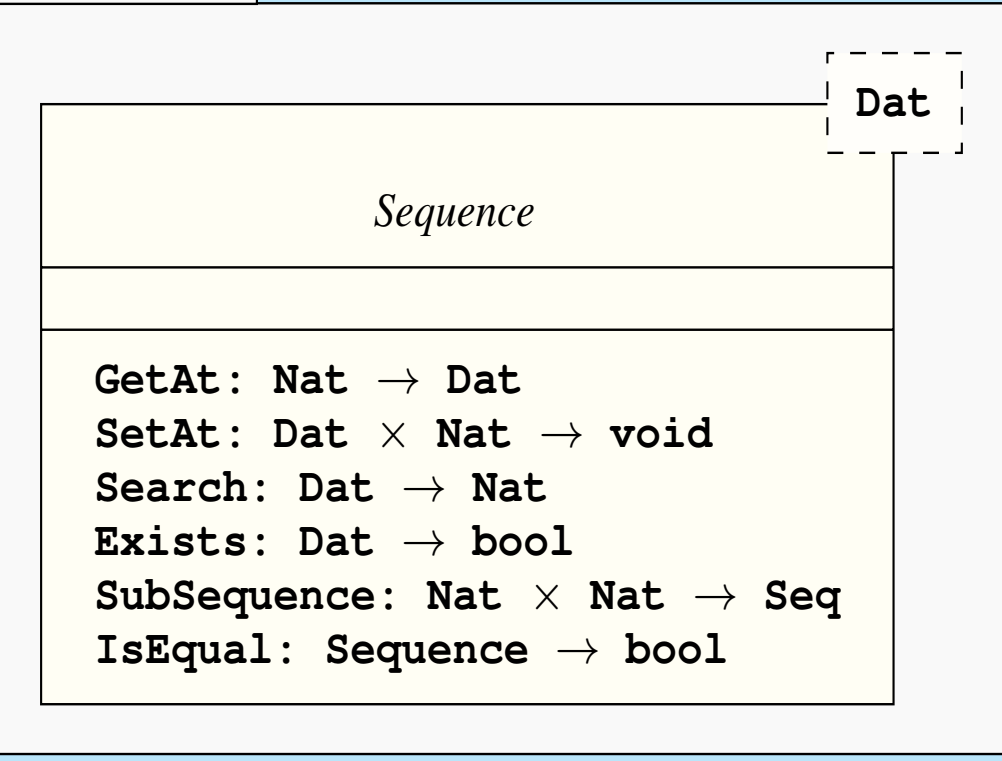


containers

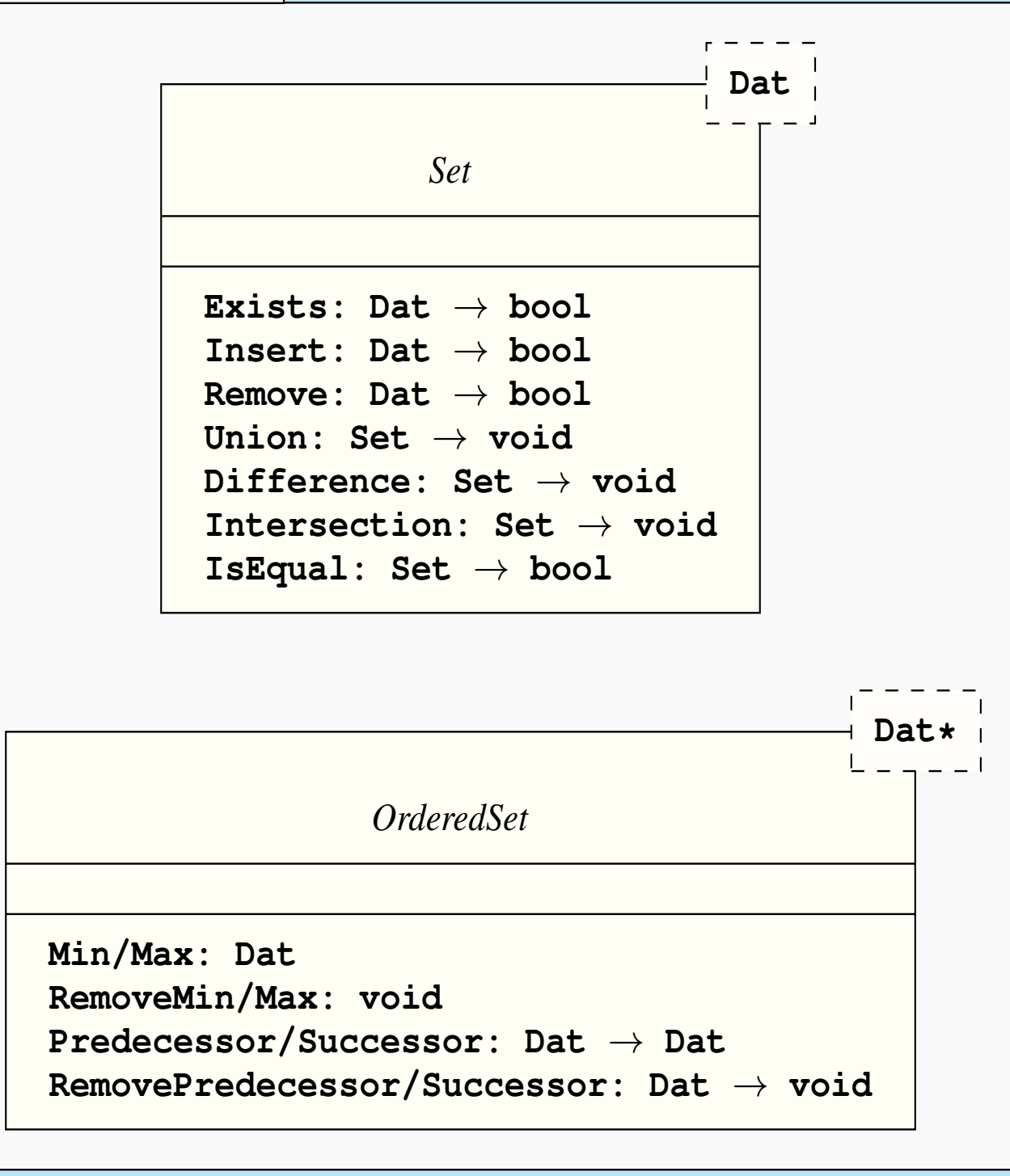
special

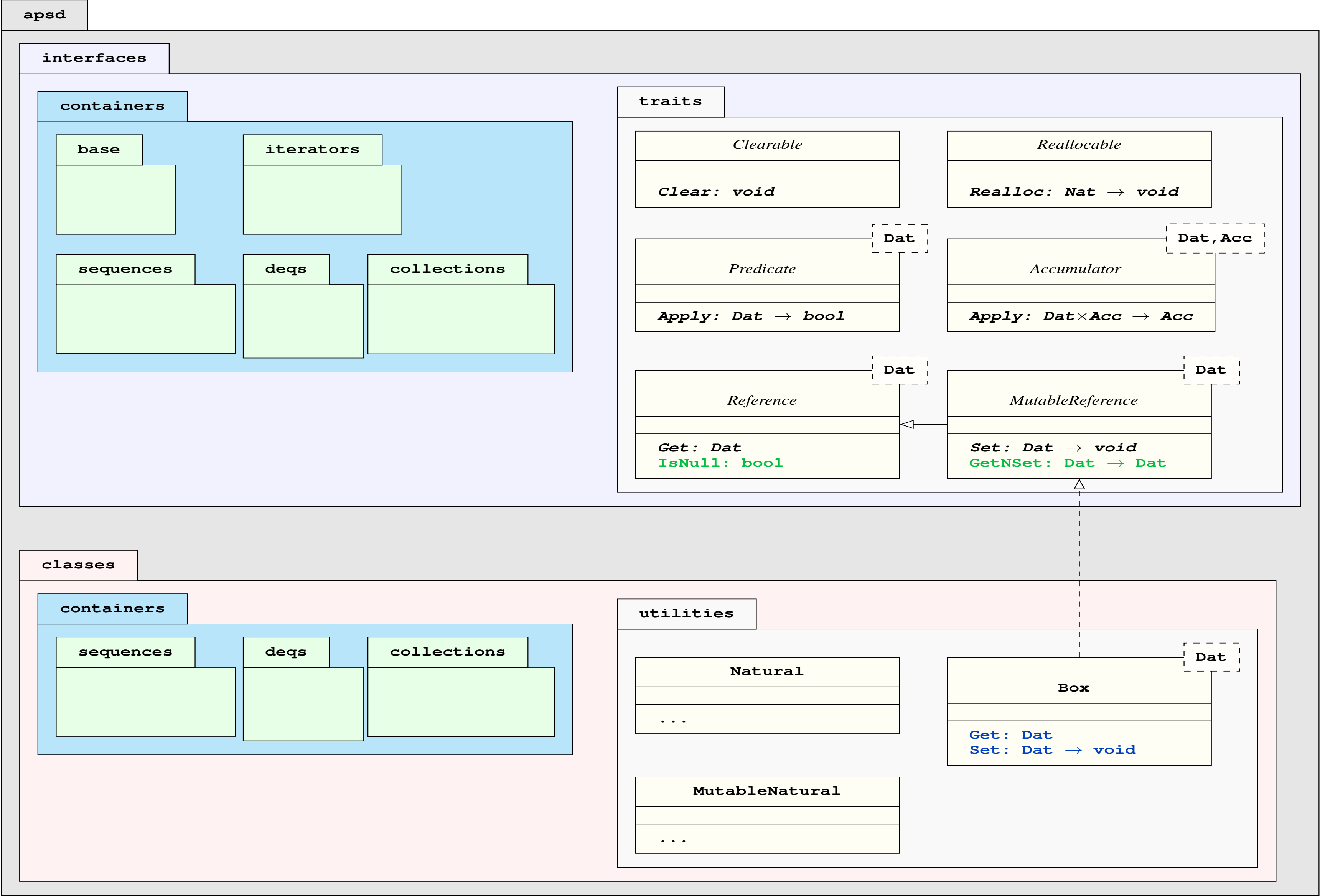


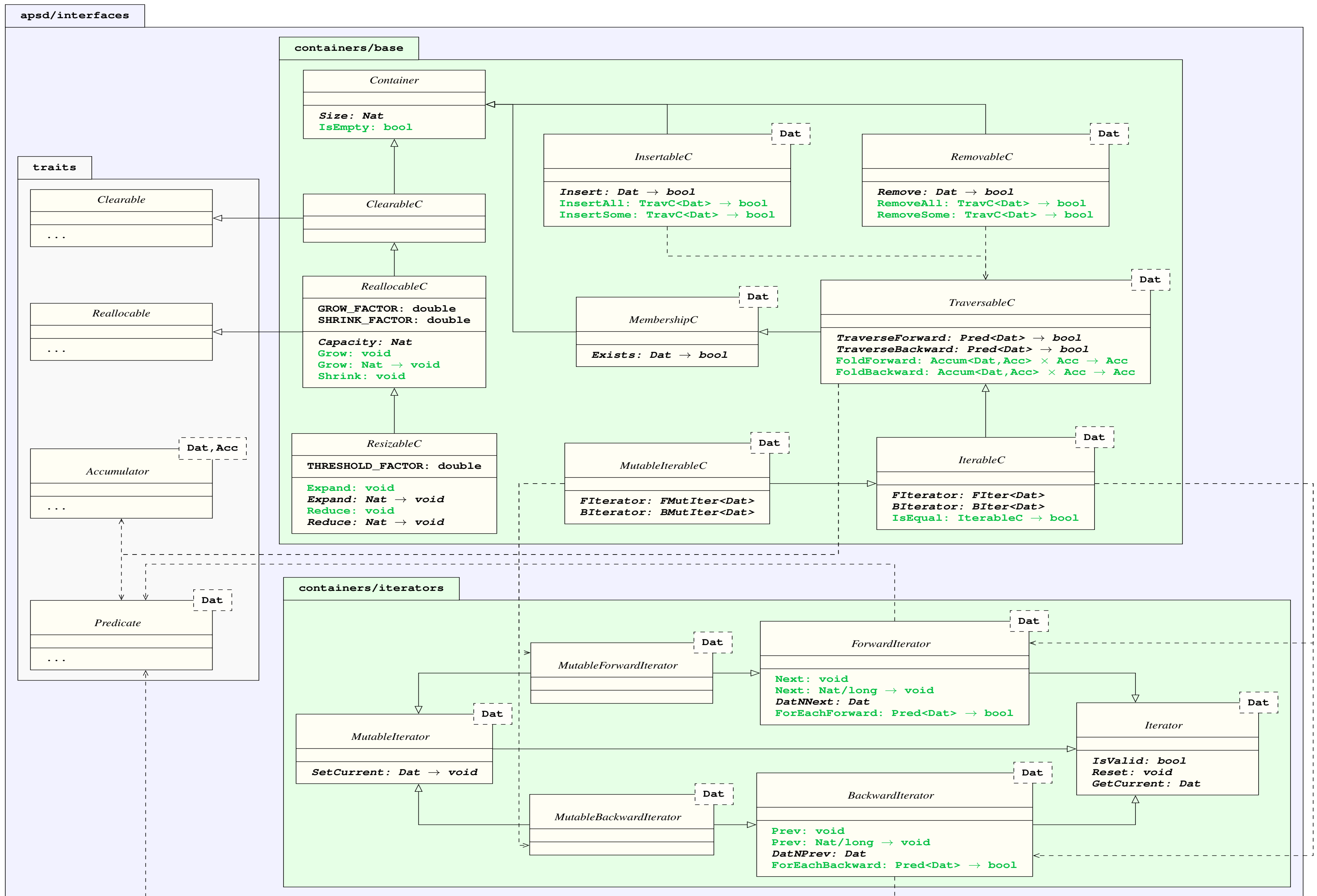
linear

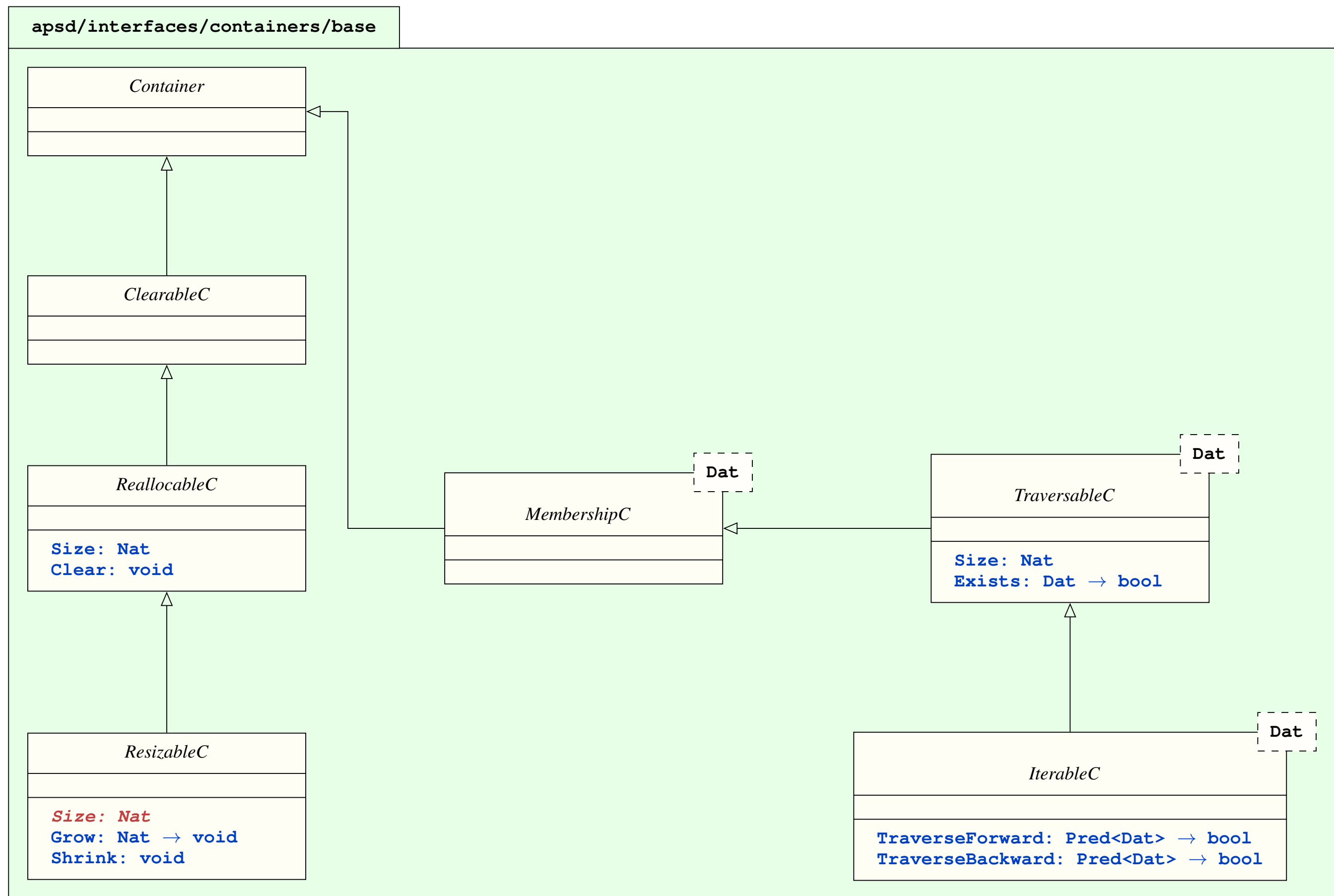
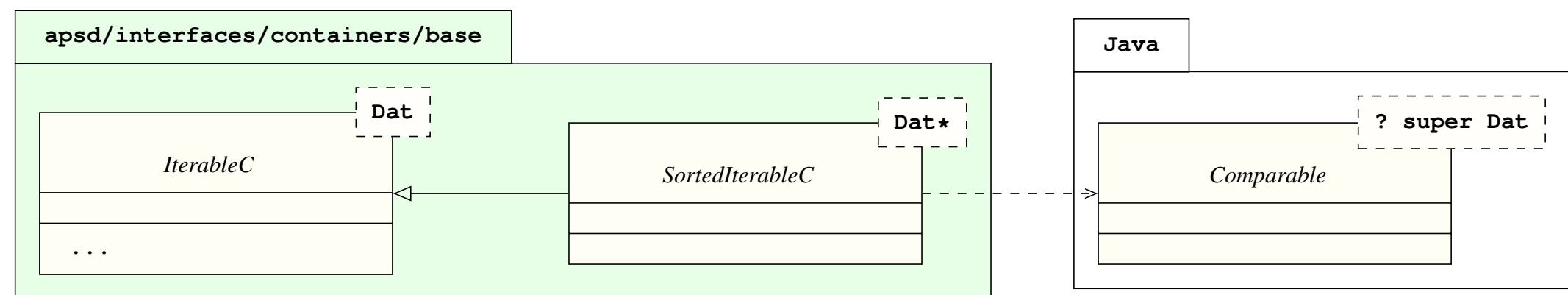


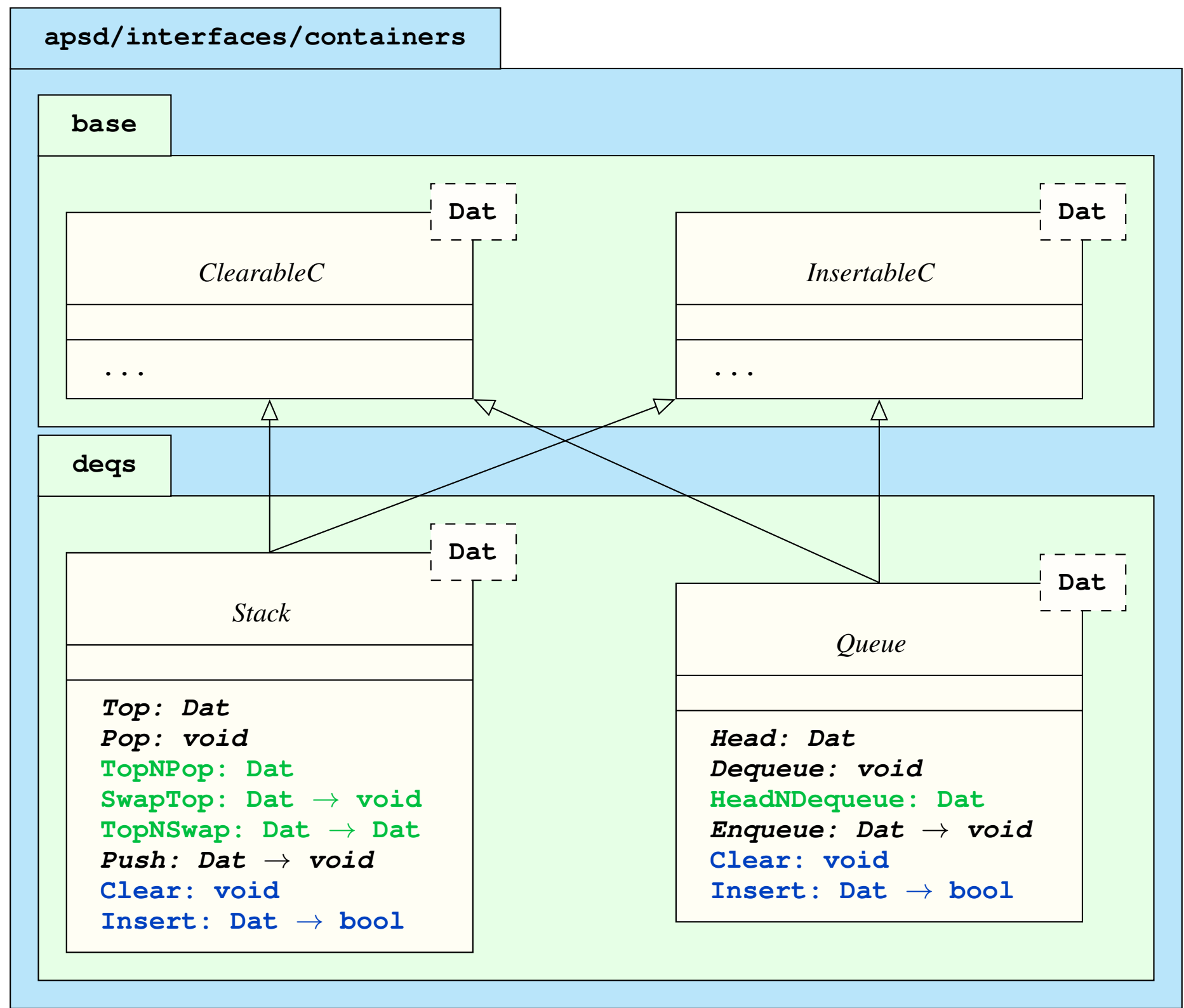
collections

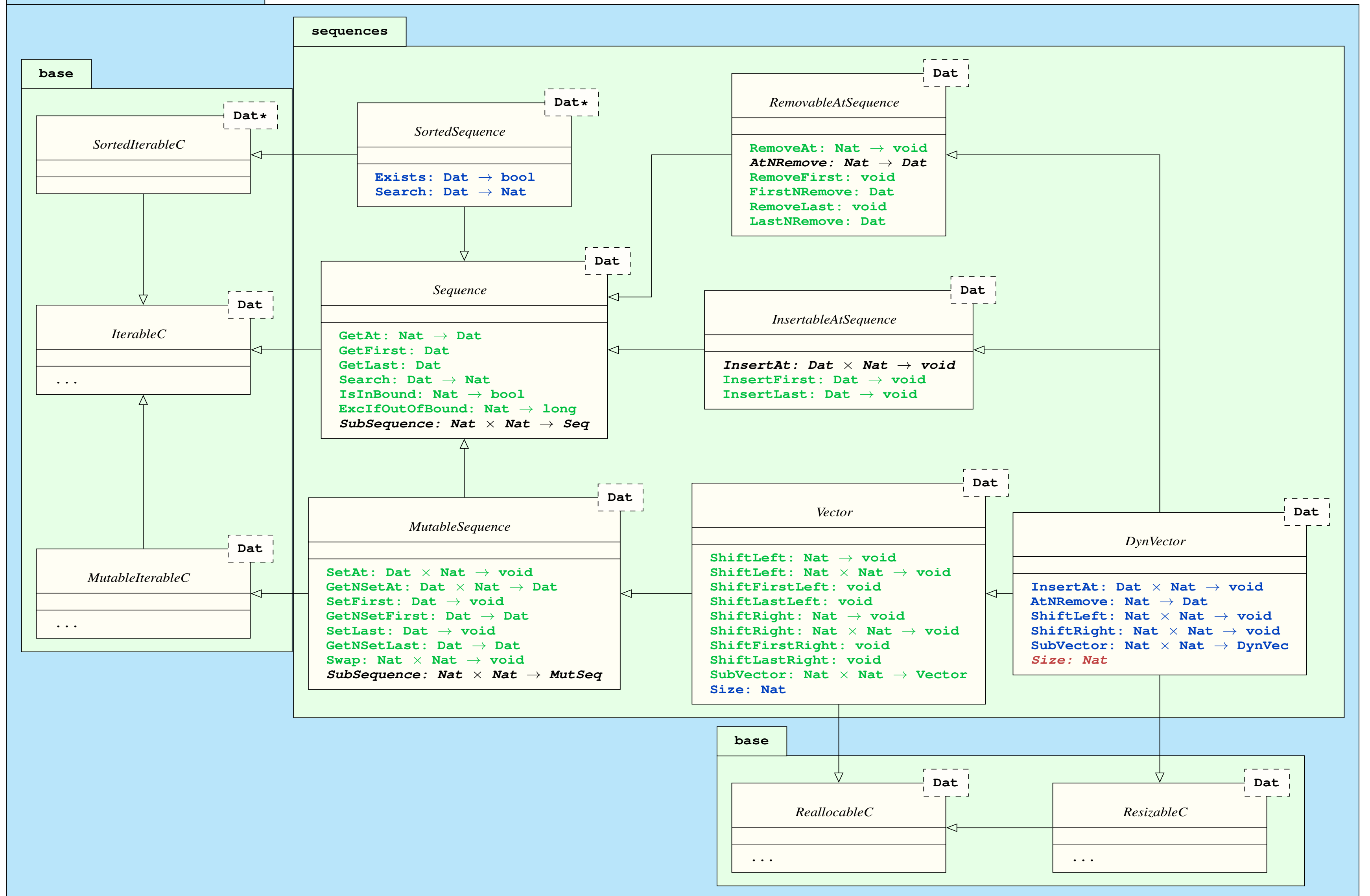


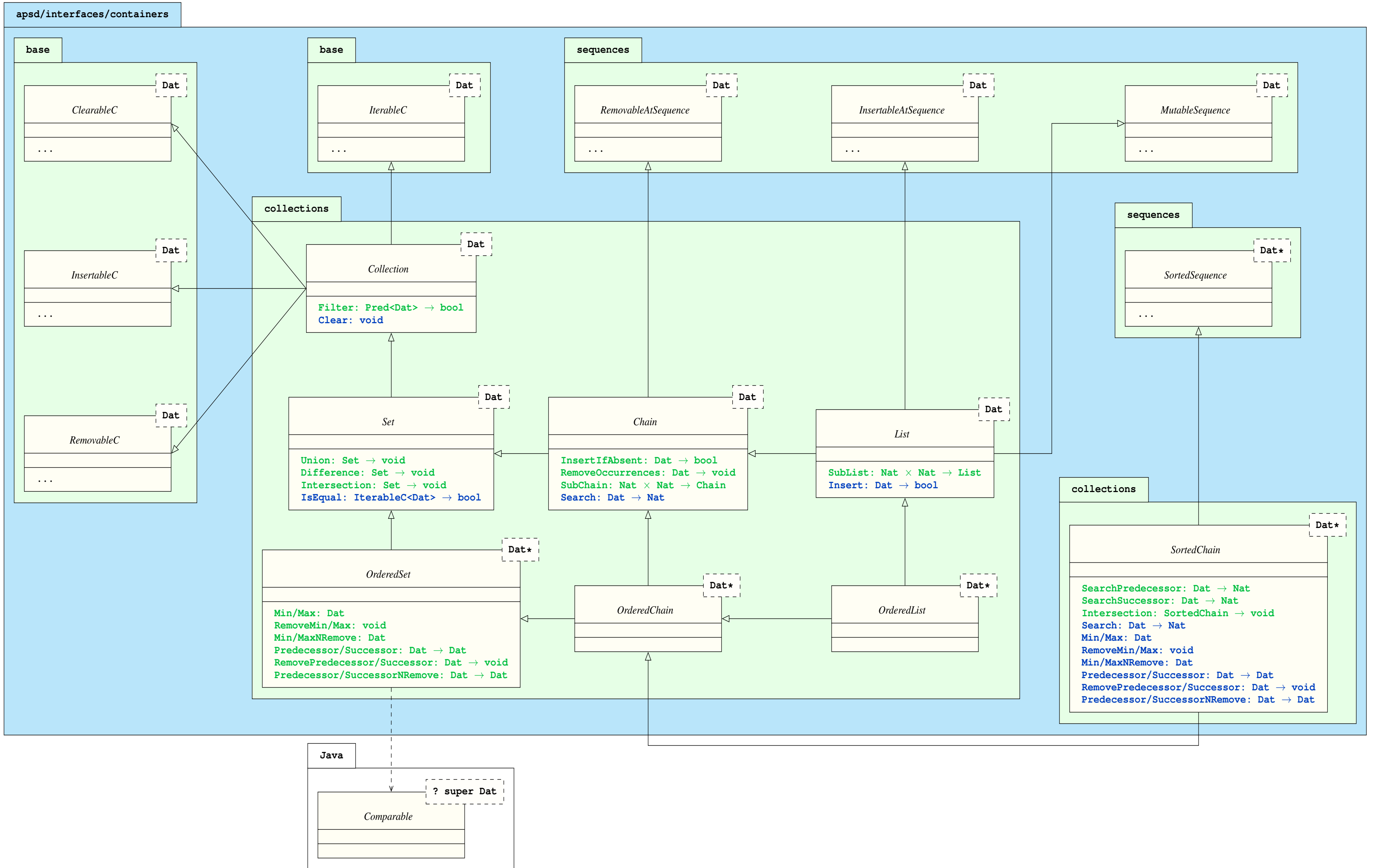


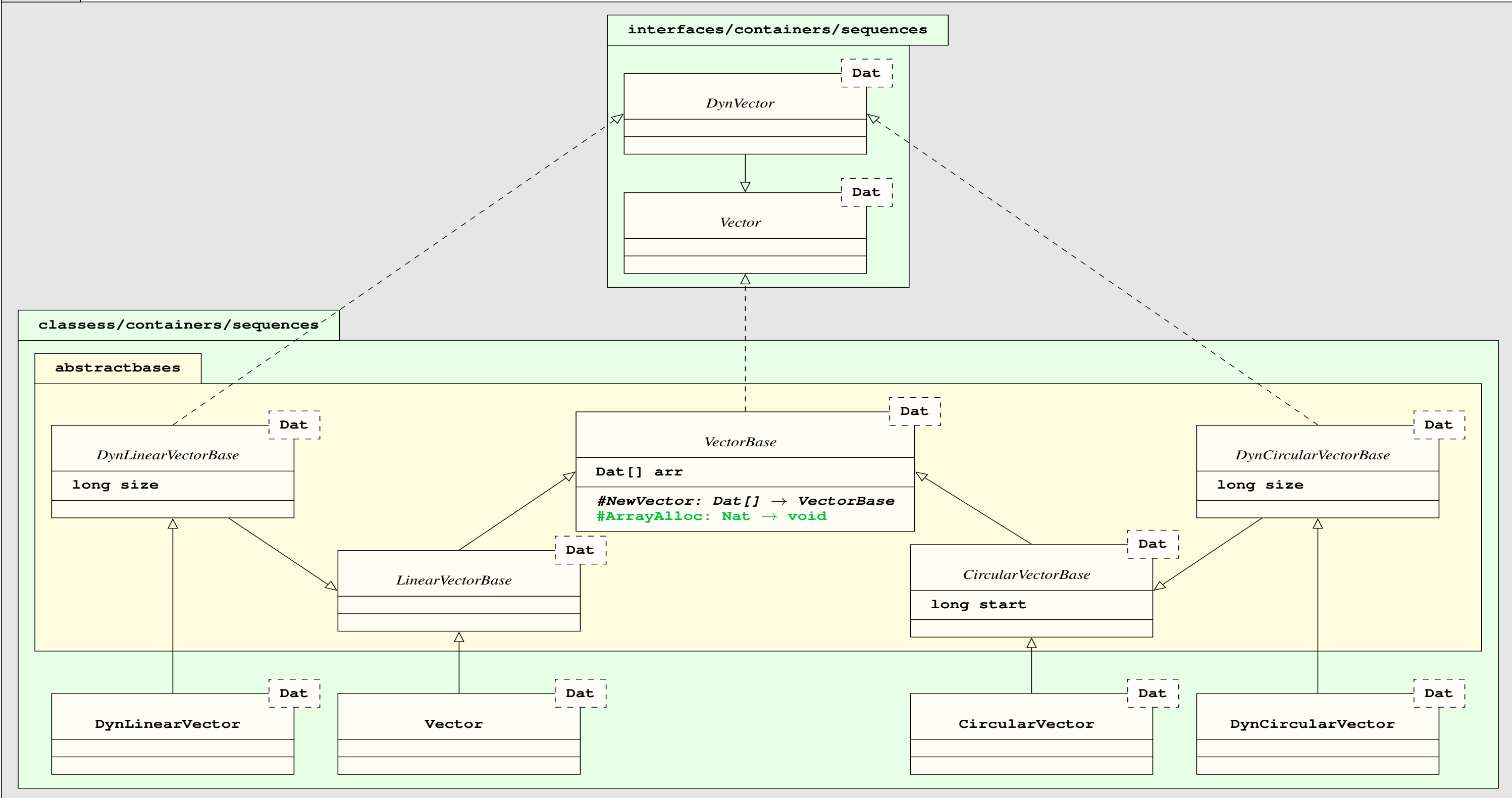












Methods	VecB	LinVecB	CirVecB	DLinVecB	DCirVecB
Size : Nat				✓	✓
Clear : void	✓			✓	✓
Realloc : Nat \rightarrow void		✓	✓	✓	✓
Capacity : Nat	✓				
Expand : Nat \rightarrow void				✓	✓
Reduce : Nat \rightarrow void				✓	✓
F/BIterator : MutableForward/BackwardIterator	✓				
GetAt : Nat \rightarrow Dat	✗	✓	✓		
SetAt : Dat \times Nat \rightarrow void	✗	✓	✓		
ShiftLeft/Right : Nat \times Nat \rightarrow void			✓		✓
SubSequence : Nat \times Nat \rightarrow MutableSequence	✓				
ArrayAlloc : Nat \rightarrow void	✓		✓	✓	✓

Methods	VSChain	LLSChain	VList	LLList
F/BIterator : MutableForward/BackwardIterator			✓	✓
Insert : Dat \rightarrow bool	✓	✓		
Remove : Dat \rightarrow bool		✓		
Search : Dat \rightarrow Nat		✓		
SearchPredecessor/Successor : Dat \rightarrow Nat		✓		
SetAt : Dat \times Nat \rightarrow void			✓	✓
SetFirst/Last : Dat \rightarrow void				✓
SubSequence : Nat \times Nat \rightarrow MutableSequence			✓	✓
InsertAt : Dat \times Nat \rightarrow void			✓	✓
InsertFirst/Last : Dat \rightarrow void				✓
The six methods for Predecessor and Successor		✓		
InsertIfAbsent : Dat \rightarrow bool	✓	✓		
RemoveOccurrences : Dat \rightarrow void	✓	✓		

