Wrapping Up The STL

Bad Dad Joke of the Day:

- How did the hamburger introduce his wife?
- Meat patty.

Creds: Julie

Abstractions allow us to express the general structure of a problem instead of the particulars of its implementation.

Rather than solve specific instances, solve the problem in a general setting!

do is express general problems rather than specific ones

We started off with basic types:

char int double

Each type was conceptually a "single value".

sort of taste of this we start off in computer

Can we keep track of a collection of basic types, regardless of what the type is?

of a collection of basic types no matter what the type is

Many programs require a collection of basic types:

A vector<int> representing student ages

A map<string, int> of names to phone numbers

Containers let us perform operations on basic types, regardless of what the basic type is.

what the type is so abstracting away from the type absolutely and you guys

Can we perform operations on containers regardless of what the container is?

Containers

t

does someone

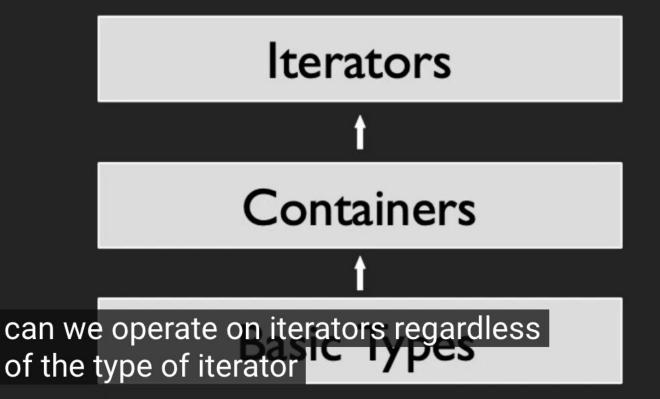
Iterators allow us to abstract away from the container being used.

Similar to how containers allow us to abstract away from the basic type being used.

Operations like sorting, searching, filtering, partitioning, and more can be written to work with almost any container.

really yeah just like well this is an imperfect

Can we operate on iterators regardless of what type of container the iterator is for?



The STL contains pre-written algorithms that:

- operate on iterators, which lets them work on many types of containers, and
- often apply functors, which allows generalization of the algorithm's applications

of the type of iterator that it is and it's exactly as we already said

STL核心概念:

– Iterator:

iterator 链接container和 algorithms,所有对container操作 的算法都离不开iterator

Algorithms **Iterators Containers Basic Types**