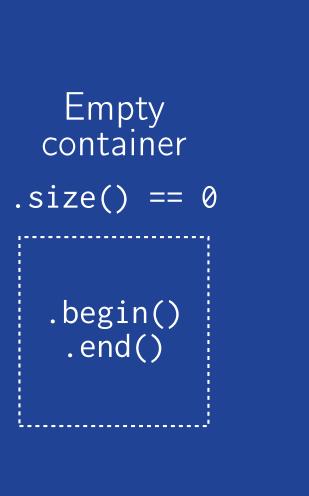
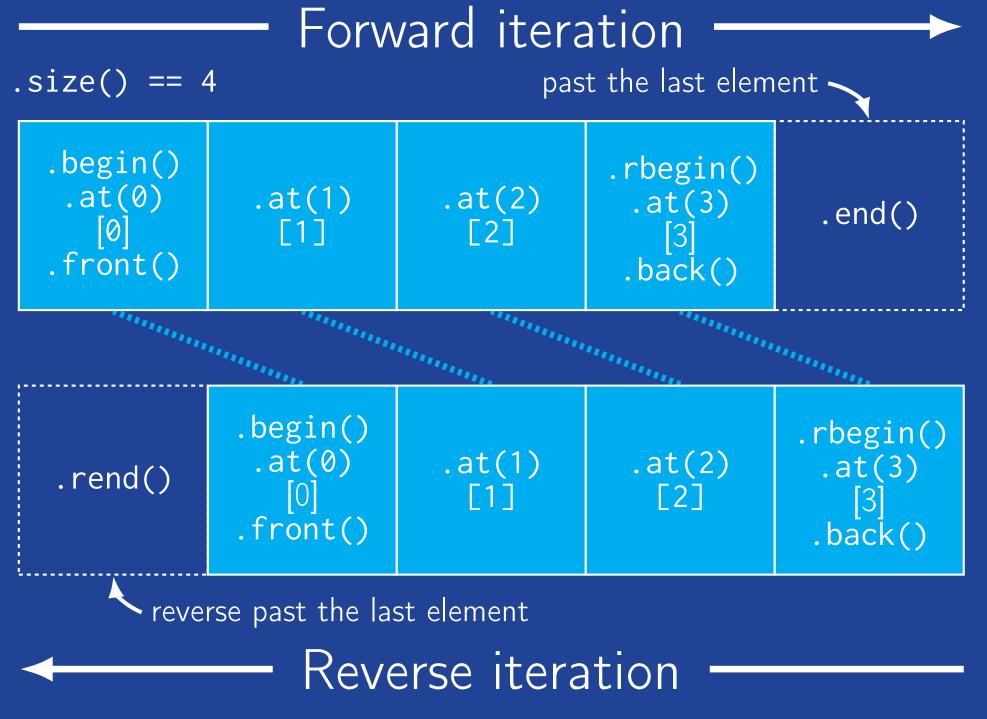
C++ STL container members and iterators

			Sequence containers Associative containers			Unordered associative containers					Container adaptors						
	$oxed{Header} \longrightarrow$	<array></array>	<vector></vector>	<deque></deque>	<pre><forward_list></forward_list></pre>	t>	<se< th=""><th>et></th><th><ma< th=""><th>o></th><th><unor< th=""><th>dered_set></th><th><unord< th=""><th>ered_map></th><th><stack></stack></th><th></th><th><queue></queue></th></unord<></th></unor<></th></ma<></th></se<>	et>	<ma< th=""><th>o></th><th><unor< th=""><th>dered_set></th><th><unord< th=""><th>ered_map></th><th><stack></stack></th><th></th><th><queue></queue></th></unord<></th></unor<></th></ma<>	o >	<unor< th=""><th>dered_set></th><th><unord< th=""><th>ered_map></th><th><stack></stack></th><th></th><th><queue></queue></th></unord<></th></unor<>	dered_set>	<unord< th=""><th>ered_map></th><th><stack></stack></th><th></th><th><queue></queue></th></unord<>	ered_map>	<stack></stack>		<queue></queue>
	$Container \longrightarrow$	array	vector	deque	forward list	list	set	multiset	map	multimap	unordered set	unordered multiset	-	unordered multimap	stack	queue	priority_queue
	(constructor)	(implicit)	vector	deque	forward_list	list	set	multiset	map	multimap	unordered_set	unordered_multiset	unordered_map	unordered_multimap	stack	queue	priority_queue
Construct,	(destructor)	(implicit)	~vector	~deque	~forward_list	~list	~set	~multiset	~map	~multimap	~unordered_set	~unordered_multiset	~unordered_map	~unordered_multimap	~stack	~queue	~priority_queue
destruct,	operator=	(implicit)	operator=	operator=	operator=	operator=	operator=	operator=	operator=	operator=	operator=	operator=	operator=	operator=	operator=	operator=	operator=
assign	assign		assign	assign	assign	assign											
	begin	begin	begin	begin	begin	begin	begin	begin	begin	begin	begin	begin	begin	begin			
Iterators	cbegin	cbegin	cbegin	cbegin	cbegin	cbegin	cbegin	cbegin	cbegin	cbegin	cbegin	cbegin	cbegin	cbegin			
	end	end	end	end	end	end	end	end	end	end	end	end	end	end			
	cend	cend	cend	cend rbegin	cend	cend	cend	cend rbegin	cend	cend rbegin	cend	cend	cend	cend			
	rbegin crbegin	rbegin crbegin	rbegin crbegin	crbegin		rbegin crbegin	rbegin crbegin	crbegin	rbegin crbegin	crbegin							
	rend	rend	rend	rend		rend	rend	rend	rend	rend							
	crend	crend	crend	crend		crend	crend	crend	crend	crend							
	at	at	at	at					at			at					
	operator[]	operator[]	operator[]	operator[]					operator[]				operator[]				
Element	data	data	data	_					-				-				
access	front	front	front	front	front	front										front	top
	back	back	back	back		back									top	back	
	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty
	size	size	size	size	_	size	size	size	size	size	size	size	size	size	size	size	size
C	max_size	max_size	max_size	max_size	max_size	max_size	max_size	max_size	max_size	max_size	max_size	max_size	max_size	max_size			
Capacity	resize		resize	resize	resize	resize					bucket count	bucket count	bucket count	bucket count			
	capacity reserve		capacity reserve								bucket_count reserve	bucket_count reserve	bucket_count reserve	bucket_count reserve			
	shrink_to_fit			shrink_to_fit							T CSCT VC	i esei ve	1 CSCI VC	i esei ve			
	clear		clear	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear			
	insert		insert	insert	insert_after	insert	insert	insert	insert	insert	insert	insert	insert	insert			
	insert_or_assign				_				<pre>insert_or_assign</pre>				<pre>insert_or_assign</pre>				
	emplace		emplace	emplace_after		emplace	emplace	emplace	emplace	emplace	emplace	emplace	emplace	emplace			
	emplace_hint						emplace_hint	emplace_hint	<pre>emplace_hint</pre>	emplace_hint	emplace_hint	emplace_hint	<pre>emplace_hint</pre>	emplace_hint			
	try_emplace								try_emplace				try_emplace				
	erase		erase	erase	erase_after	erase	erase	erase	erase	erase	erase	erase	erase	erase			
Modifiers	push_front		push_front	push_front	push_front												
	<pre>emplace_front pop_front</pre>		<pre>emplace_front pop_front</pre>	<pre>emplace_front pop_front</pre>	<pre>emplace_front pop_front</pre>											non	non
	push_back		push_back	push_back	pop_11 one	push_back									push	pop push	pop push
	emplace_back		emplace_back	emplace_back		emplace_back									emplace	emplace	emplace
	pop_back		pop_back	pop_back		pop_back									рор		
	swap	swap	swap	swap	swap	swap	swap	swap	swap	swap	swap	swap	swap	swap	swap	swap	swap
	merge				merge	merge	merge	merge	merge	merge	merge	merge	merge	merge			
	extract						extract	extract	extract	extract	extract	extract	extract	extract			
List operations	splice			splice_after	splice												
	remove			remove	remove												
	remove_if			remove_if	remove_if												
	reverse unique			reverse unique	reverse unique												
	sort			sort	sort												
	count						count	count	count	count	count	count	count	count			
Lookup	find						find	find	find	find	find	find	find	find			
	lower_bound						lower_bound	lower_bound	lower_bound	lower_bound							
	upper_bound						upper_bound	upper_bound	upper_bound	upper_bound							
	equal_range						equal_range	equal_range	equal_range	equal_range	equal_range	equal_range	equal_range	equal_range			C++03
Observers	key_comp						key_comp	key_comp	key_comp	key_comp							
	value_comp						value_comp	value_comp	value_comp	value_comp							C++11
	hash_function										hash_function	hash_function	hash_function	hash_function			
	key_eq										key_eq	key_eq	key_eq	key_eq			C++17
Allocator	<pre>get_allocator</pre>		get_allocator	<pre>get_allocator</pre>	<pre>get_allocator_after</pre>	get_allocator	get_allocator	get_allocator	get_allocator	<pre>get_allocator</pre>	<pre>get_allocator</pre>	get_allocator	<pre>get_allocator</pre>	get_allocator			







"The trouble with quick and dirty is that dirty remains long after quick has been forgotten."

Steve McConnell

"Simple, not easy. There's a difference."

Ron Jeffries

"Successful software always gets changed."

Fred Brooks

Iterator invalidation

Iterator invalidation										
Category	Container		rtion, are references valid?		rasure, are references valid?	Conditionally				
	array	N	I/A		N/A					
		ı	no		N/A	 Insertion changed capacity Before modified element(s) At or after modified element(s) 				
	vector	У	<i>r</i> es		yes					
Sequence		l l	no		no					
containers	dogue	no	yes	Yes, except e	rased element(s)	Modified first or last elementModified middle only				
	deque	no	no		no					
	list		105	Vos except o	eraced element(s)					
	forward_list		yes	res, except e	erased element(s)					
	set									
Associative	multiset		***	Vos aveent	ereand alamont(s)					
containers	map	3	yes	res, except e	erased element(s)					
	multimap									
	unordered_set	no		yes, except erased element(s)		 Insertion caused rehash 				
Unsorted	unordered_multiset		1100							
associative	unordered_map	yes	yes			No rehash				
containers	unordered_multimap									