

Click or press 's' or Ctrl+P to

Variable sized arrays / Vectors	Hashmaps / Dicts	Option	Result	Rust Cheatsheet
let mut vec: Vec<T> = Vec::new(); = Vec::with_capacity(); = vec![]; = Vec::from(slice str VecDeque CString) = othervec.clone(); ▶ Details	use std::collections::HashMap; ▶ Details let mut foo: HashMap<K, V> = HashMap::new(); = HashMap::with_capacity(); = other.clone(); ▶ Details	let foo : Option = Some(T::new()); = None; <u>If</u> .is_some(); .is_none(); ▶ Details <u>&</u> .as_ref(); ▶ Details .as_mut(); ▶ Details .cloned(); ▶ Details .iter_mut(); ▶ Details <u>Retrieve T</u> .unwrap(); ▶ Details .expect(msg); ▶ Details .unwrap_or(default:T); ▶ Details .unwrap_or_default(); ▶ Details .unwrap_or_else(-> T); ▶ Details mutableopt.take(); ▶ Details	let foo : Result = Ok(T::new()); = Err(E::new()); <u>If</u> .is_ok(); .is_err(); ▶ Details <u>&</u> .as_ref(); ▶ Details .as_mut(); ▶ Details .iter_mut(); ▶ Details <u>Retrieve T</u> .unwrap(); ▶ Details .expect(msg); ▶ Details .unwrap_or(default:T); ▶ Details .unwrap_or_else(err default -> T); ▶ Details <u>Retrieve E</u> .unwrap_err(); ▶ Details <u>Manipulate (map)</u> .map(t -> U); ▶ Details .map_err(e -> F); ▶ Details <u>to Option<></u> .ok(); ▶ Details .err(); ▶ Details <u>Boolean Combinations</u> a.and(b : Result<U,E>); ▶ Details a.and_then(b -> Result<U,E>); ▶ Details a.or(b : Result<T,E>); ▶ Details a.or_else(b -> Result<T,E>); ▶ Details <u>Traits</u> Hash hash() Debug fmt() Ord cmp() Eq PartialOrd partial_cmp() lt() le() gt() ge() PartialEq eq() ne() Copy Clone clone() clone_from() IntoIterator into_iter() FromIterator from_iter()	Contribute at github.com/phaiax/rust- cheatsheet  ▶ Details
<u>Accessing</u> vec[3]; ▶ Details vec.len(); .is_empty(); .first_mut(); .last_mut(); ▶ Details .get_mut(index); ▶ Details .contains(needle); ▶ Details .iter().find(&T -> bool); ▶ Details .binary_search(x:&T); ▶ Details	<u>Access</u> foo[key]; foo.len(); .iter_mut(); ▶ Details .into_iter(); ▶ Details .keys(); ▶ Details .values_mut(); ▶ Details .is_empty(); ▶ Details .contains_key(k:Q); ▶ Details <u>Manipulate</u> .get_mut(k:&Q); ▶ Details .entry(key); ▶ Details .drain(); ▶ Details .clear(); .extend(iter : <Item=(&K,&V)>); .insert(k,v); ▶ Details .remove(k:&Q); ▶ Details .from_iter(iter : <Item=(K,V)>); ▶ Details <u>Manage</u> .capacity(); .reserve(additional); .shrink_to_fit(); .clone_from(source); ▶ Details	<u>Manipulate (map)</u> .map(t -> U); ▶ Details .map_or(default:U, t -> U); ▶ Details .map_or_else(default -> U, t -> U); ▶ Details <u>to Result<></u> .ok_or(err:E); ▶ Details .ok_or_else(err -> E); ▶ Details <u>Boolean Combinations</u> a.and(b : Option<U>); ▶ Details a.and_then(b -> Option<U>); ▶ Details a.or(b : Option<T>); ▶ Details a.or_else(b -> Option<T>); ▶ Details <u>Traits</u> Hash hash() Debug fmt() Ord cmp() Eq PartialOrd partial_cmp() lt() le() gt() ge() PartialEq eq() ne() Copy Clone clone() clone_from() IntoIterator into_iter() FromIterator from_iter()	<u>Retrieve T</u> .unwrap(); ▶ Details .expect(msg); ▶ Details .unwrap_or(default:T); ▶ Details .unwrap_or_else(err default -> T); ▶ Details <u>Retrieve E</u> .unwrap_err(); ▶ Details <u>Manipulate (map)</u> .map(t -> U); ▶ Details .map_err(e -> F); ▶ Details <u>to Option<></u> .ok(); ▶ Details .err(); ▶ Details <u>Boolean Combinations</u> a.and(b : Result<U,E>); ▶ Details a.and_then(b -> Result<U,E>); ▶ Details a.or(b : Result<T,E>); ▶ Details a.or_else(b -> Result<T,E>); ▶ Details <u>Traits</u> Hash hash() Debug fmt() Ord cmp() Eq PartialOrd partial_cmp() lt() le() gt() ge() PartialEq eq() ne() Copy Clone clone() clone_from() IntoIterator into_iter() FromIterator from_iter()	
<u>Adding</u> .push(3); ▶ Details .insert(index, element); .extend(iterable); .extend_from_slice(&[T]); .append(other : Vec); ▶ Details	<u>Removing</u> .pop(); ▶ Details .remove(index); ▶ Details .swap_remove(index); ▶ Details .drain(range); ▶ Details .clear(); .retain(i -> bool); ▶ Details	<u>Manipulating</u> .sort(); ▶ Details .sort_by(&T -> Ordering); ▶ Details .sort_by_key(&T -> Key); ▶ Details .reverse(); ▶ Details .swap(index1, index2);	<u>Transforming (Iter, as, to)</u> .iter_mut(); ▶ Details .into_iter(); ▶ Details .chunks_mut(cnk_sz); ▶ Details .windows(wnd_sz); ▶ Details .as_ref(); ▶ Details .as_mut_slice(); ▶ Details	<u>Memory</u> .reserve(100); ▶ Details .reserve_exact(100); ▶ Details <u>Split</u> .split_at_mut(mid); ▶ Details .split_mut(&T -> bool);

<code>.splitn_mut(n, &T -> bool);</code>	
<code>.rsplitn_mut(_);</code>	► Details
<code>.split_off(mid);</code>	► Details
<u>Comparision</u>	
<u>Traits</u>	
From<BinaryHeap> <code>from()</code>	
BorrowMut <code>borrow</code> / <code>_mut()</code>	
Clone <code>clone/_from()</code> Hash	
<code>hash/_slice()</code> IndexMut	
<code>index/_mut()</code> DerefMut	
<code>deref/_mut()</code> FromIterator	
<code>from_iter()</code> IntoIterator	
<code>into_iter()</code> Extend <code>extend()</code>	
PartialEq <code>eq()</code> <code>ne()</code> PartialOrd	
<code>partial_cmp()</code> <code>lt()</code> <code>le()</code> <code>gt()</code> <code>ge()</code>	
Eq Ord <code>cmp()</code> Drop <code>drop()</code>	
Default <code>default()</code> Debug (if	
T:Debug) <code>fmt()</code> AsRef AsMut	
<code>as_ref()</code> <code>as_mut()</code> From <code>from()</code>	
Write <code>write()</code> <code>write_all()</code> <code>flush()</code>	
<code>by_ref()</code> <code>..</code>	