Data Structures | Vector

Vector

- Multiple pieces of data
  - Must be the same type
- Used for lists of information
- Can add, remove, and traverse the entries

Example

```rust
let my_numbers = vec![1, 2, 3];

let mut my_numbers = Vec::new();
my_numbers.push(1);
my_numbers.push(2);
my_numbers.push(3);
my_numbers.pop();
my_numbers.len(); // this is 2

let two = my_numbers[1];
```

Example

```rust
let my_numbers = vec![1, 2, 3];

for num in my_numbers {
    println!("{:?}", num);
}
```

Recap

- Vectors contain multiple pieces of similar data

- Data can be added or removed

- The *vec!* macro can be used to make vectors

- Use *for..in* to iterate through items of a vector