Rust Tutorials

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Chapter 1

Introduction

- 1.1 History Rust
- 1.2 Why Rust?
- 1.3 Install Rust
- 1.3.1 Linux Fedora Based
- 1.3.2 From source
- 1.4 simple Variables
- 1.4.1 Constant
- 1.4.2 Mutable and immutable
- 1.4.3 Integers

S	Size	Sign	Unsigned	Minimum	Maximum
8	$_{ m bits}$	i8	u8		'
16	bits	i16	u16		
32	bits	i32	u32		
64	bits	i64	u64		
sys	arch	isize	usize		

```
fn main() {
    println!("Hello, world!");
}
```

Listing 1.1: Definition variables

- 1.4.4 Floats
- 1.4.5 bool
- 1.4.6 char

unicode ascii

1.5 Operators

- 1.5.1 bool ops
- 1.5.2 non bool ops

1.6 array

out of index

```
1 fn main() {
2     println!("Hello, world!{}{:?}{:#?}");
3 }
```

Listing 1.2: Definition variables

1.7 tuple

```
1 fn main() {
2    println!("Hello, world!{}{:?}{:#?}");
3 }
```

1.8 Loops

```
1 fn fff() {
      let mut counter = 0;
      loop {
          if (counter >= 10) {
              break;
          counter += 1;
8
     while counter < 10 {</pre>
10
11
         counter += 1;
12
13
     for counter in 0..11 {
14
          println!("{}", counter);
15
16
17
18
      for counter in 0..11 {
     println!("{}", counter)
```

1.8. LOOPS 5

```
20    }
21
22    let array: [i32; 5] = [10, 11, 12, 13, 14];
23    for index in 0..5 {
24        println!("{}", array[index]);
25    }
26    for value in array.iter() {
27        println!("{}", value);
28    }
29 }
```

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