

Variables	Types	Slices	Methods	Pointers
<pre>// declare variable var a string var a string = "something" // type is inferred: var a = "something" a := "something" a, b := "one", "two" // map var a map[string]string a := make(map[string]string) a := map[string]string{"k": "v"} // array var d [2]int = [2]int{1,2} // slice var a []string a := make([]string, 5) a := make([]string, 5, 10) // multiple variables: var (a string b int) // struct type myStruct struct { c string } var a myStruct a := myStruct{c: "a string"} a := myStruct{"a string"} a.c = "a string"</pre>	<pre>bool string byte (alias for uint8) rune (alias for int32) float32 float64 int int8 int16 int32 int64 uint uint8 uint16 uint32 uint64 uintptr complex64 complex128</pre>	<pre>a := []int{} a := []int{1,2,3,4,5,6,7} fmt.Printf("%v", a[0:2]) // [1 2] fmt.Printf("%v", a[5:len(a)]) // [6 7]</pre>	<pre>type myStruct struct { c string } func (m myStruct) method() { m.c = "newstr" // will not update } func (m *myStruct) method() { m.c = "newstr" // will update } a := MyStruct{} b := &MyStruct{}</pre>	<pre>a := "123" b := &a // pointer to a fmt.Println(b) // 0xc00001c030 fmt.Println(*b) // "123" *b = "456" // change a through pointer b</pre>
	<div>Conditions</div>	<div>Functions</div>	<div>Interfaces</div>	
	<pre>Comparison: < > <= >= == != Logical: && ! if a >= 10 && b >= 10 { } else if !(a < 5) { } else { } switch a { case 5: default: // optional }</pre>	<pre>func returnTwo() (bool, bool) { ... } func myFunc(b int, c int64) bool { return true } func myFunc(b, c int) { ... } // assigning function to a variable: a := func (a int) int { return a + 1 } fmt.Printf("%v", a(1))</pre>	<pre>type myIface interface { method() method2(a int) (bool, error) }</pre>	
	<div>Operators</div>	<div>Loops</div>	<div>Various</div>	
	<pre>a := 5 + 5 a += 5 // same as a = a + 5 b := a >= 5 // returns boolean b++ // increase b by one b-- // decrease b by one</pre>	<pre>for i := 0; i < 5; i++ { ... } for { ... } // indefinite loop for { if a == 5 { break } // break loop } for { if a == 5 { continue } // next iter. } // range keyword for k, v := range a { // k will be int for array/slice // k will be key for map // v will be value }</pre>	<pre>// constants (fixed value) const a int = 5 // run hello() in goroutine go hello()</pre>	
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