



<https://github.com/owaismajid/Kotlin-Tutorial-Examples>



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# Kotlin

## Type Interface

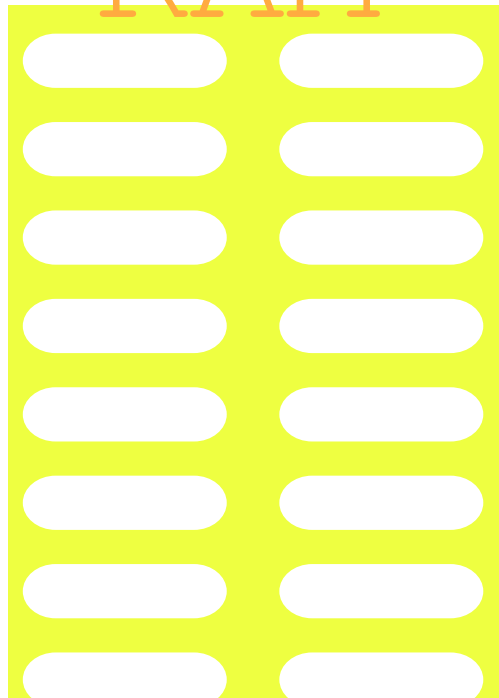


Kotlin

# How Variables work

?

RAM



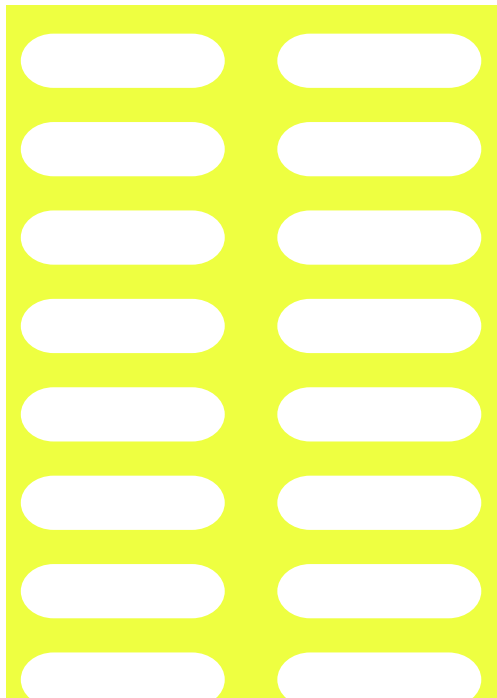
How Variables work?



# How Variables work

?

```
val byte:Byte = 8
```



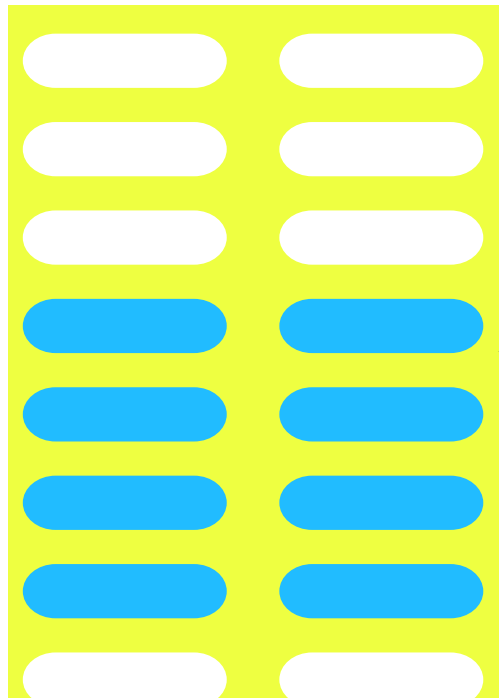
How Variables work?



# How Variables work

?

```
val byte:Byte = 3
```



How Variables work?



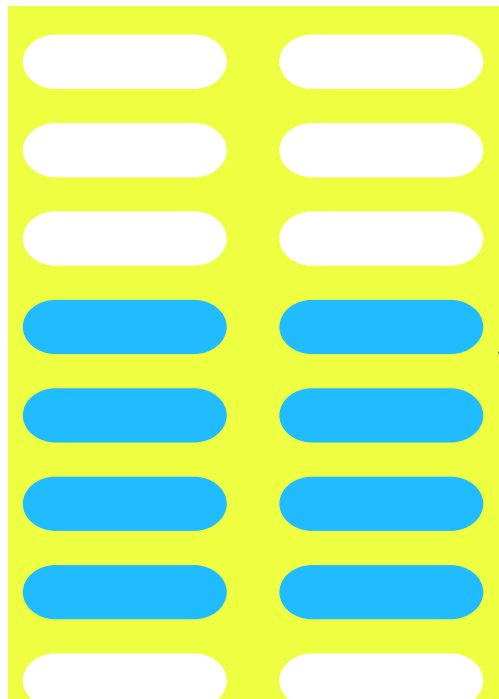
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# How Variables work

?

```
val byte:Byte = 3
```



0x00130

How Variables work?



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# Data Type

## Numbers

```
val long:    Long    = 4874214699752L    //64 bits
val int:     Int     = 1248777           //32 bits
val short:   Short   = 457               //16 bits
val byte:    Byte    = 110               //8  bits
val double:  Double  = 95478.254         //64 bits
val float:   Float   = 75488.254F        //32 bits
```

How Variables work?

Data Type

Numbers



# Data Type

## Numbers

```
val long:    Long    = 4874214699752L    //64 bits
val int:     Int     = 1248777           //32 bits
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val double:  Double  = 95478.254         //64 bits
val float:   Float   = 75488.254F        //32 bits
```

Number literal

```
val hexadecimal = 0xAB
val binary      = 0b01010101
```

How Variables work?

Data Type

Numbers



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# Data Type

## Booleans

false

true

```
val True: Boolean = true  
val False: Boolean = false
```

How Variables work?

Data Type

Numbers

Booleans



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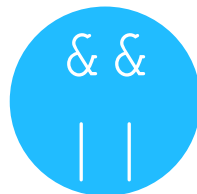
# Data Type

## Booleans

false

true

```
val True: Boolean = true  
val False: Boolean = false
```



How Variables work?

Data Type

Numbers

Booleans



# Data Type

## Chars

```
val charA:      Char = 'A'    // A
val charZ:      Char = 'Z'    // Z
val char_a:     Char = 'a'    // a
val char_f:     Char = 'f'    // f
val charEscape: Char = '\n'   //New Line
val charUni:    Char = '\u0636' // ض
val char1:      Char = '1'    // 1
```

How Variables work?

Data Type

Numbers

Booleans

Chars



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# Data Type

## Strings

```
val string:      String = "Some Text"
val stringEscape:String = "New \n Line"
val stringRow:   String = """1st Line
                             2nd Line
                             3rd Line """

// Strings Templates
val varTemplate: String = "var $charUni = ض"
val moreTemplate:String = "Floor($double) =
                           ${double.toInt()} "
```

How Variables work?

Data Type

Numbers

Booleans

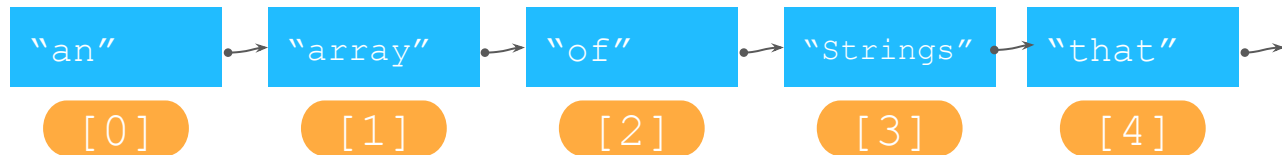
Chars

Strings



# Data Type

## Arrays



```
val array = arrayOf(5, 3, 4, 1, 15)
var TArray: Array<String> =
    arrayOf("One", "Five", "Three")
TArray[1] = "Two"
val SArray = Array(5, {e -> e * e})
```

How Variables work?

Data Type

Numbers

Booleans

Chars

Strings

Arrays



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