

Japanese Tutorial 2 - Code as data, or closures

GroovyStringInteger

```
square = { it * it }
```

it * itGroovy"it"square":

```
square(9)
```

81

squarecollect:

```
[ 1, 2, 3, 4 ].collect(square)
```

1,2,3,4collectcollectsquare:

```
[ 1, 4, 9, 16 ]
```

Groovy GDK

it Map.each()2:

```
printMapClosure = { key, value -> println key + "=" + value }  
[ "yue" : "wu", "lane" : "burks", "sudha" : "saseethiaseeleethialeselan"  
].each(printMapClosure)
```

:

```
yue=wu  
lane=burks  
sudha=saseethiaseeleethialeselan
```

```
fullString = ""
orderParts = ["BUY", 200, "Hot Dogs", "1"]
orderParts.each {
    fullString += it + " "
}

println fullString
```

```
myMap = ["asdf": 1 , "qwer" : 2, "sdfg" : 10]

result = 0
myMap.keySet().each( { result+= myMap[it] } )
println result
```

myfile.txtC:\tempgroovyConsole:

```
myFileDirectory = "C:\\temp\\"
myFileName = "myfile.txt"
myFile = new File(myFileDirectory + myFileName)

printFileLine = { println "File line: " + it }

myFile.eachLine( printFileLine )
```

"File line: "Groovy"

"myFile ="File"C:\temp\myfile.txt"eachLine

GroovyJavaGroovyJavaJavaString"Method Summary""split""2005-07-04"741:

```
stringDate = "2005-07-04"
dateArray = stringDate.split("-")
year = dateArray[0].toInteger()
year = year + 1
newDate = year + "-" + dateArray[1] + "-" + dateArray[2]
```

StringsplitStringtoInteger()toIntegerStringGroovy".toInteger()"

toIntegerJavatIntegerGroovyStringJavaGroovy