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### Simple Arrays

Every value is acces	sed by	using	index		
Index is string	•	_			
arr[1]= "this" arr[2]= "is" arr[3]= "just" arr[4]= "like" arr[5]= "POSIX"					
	1	2	3	4	5
arr	this	is	iust	like	POSIX

## **Associative Arrays**

```
**Slower to process (no simple way to iterate over array)

**sales_000["nov"] = 1100.2

**sales_0000["dec"] = 1225.6

**sales_0000["jan"] = 1254.8

**sales_0000["feb"] = 1305.4

**sales_000["mar"] = 1428.2

**nov dec jan feb mar

**sales_000["mar"] = 1428.2

**ales_000[1100.2 | 1225.6 | 1254.8 | 1305.4 | 1428.2

**ales_000[$1] = $2$; tot_sales += $2$;

**ENS { printf "%S$6.2f\n", "Total Sales:", tot_sales print "\n Monthly sales figures" for (month in sales_000)

**print month,"\t",sales_000[month]} sales_data.txt
```

# **Lesson: Processing Array Elements**

■ for Statement	
■ The Array in Operator	
■ Deleting Array Elements	
■ The split Function	

### Processing Arrays — for Loop

or (i=1; i<=N	R; i++) print my_	array[i]	
oop over the	elements of the a	ray	
Syntax:			
for (variable action	in <i>array</i> )		
Example:	sales 000)		
	h, sales_000[mont	:h]	

# The Array in Operator

➤ You can test, if specified index exist in array.

➤ Syntax:

Var in array

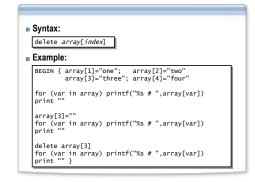
➤ Example:

if ("312" in area\_code\_count)
 print "312 area code found"

➤ Can't be used for testing indexed value.

for (varx in area\_code\_count)
 if (area\_code\_count[varx] >= 100)
 print varx, area\_code\_count[varx]

# **Deleting Array Elements**



# The split Function

```
Pyou can use split built-in function to convert any string
to array.

Syntax:

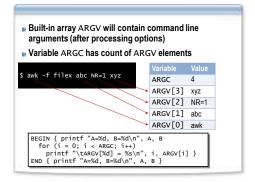
split(string, array[, separator])

If separator is not specified, then FS is used

#!/bin/awk -f
# will split input lines based on the ":"
{ split($0, fields, ":")
    for (var in fields) printf("%s # ", fields[var])
    print ""
}
```

## Lesson: Multidimensional arrays

#### Lesson: Command Line Parameter Passing



### **Review Exercises**



### **Topics for Review**

