# Shell Script Basics II

Arrays

# Declaring Array

- Indirect Declaration

  ARRAYNAME[INDEXNR]=value

- Explicit Declaration

  declare -a ArrayName

- Compound Assignment

  ArrayName=(v1,v2,v3,...,vn) OR

  ARRAYNAME=([1]=10 [2]=20 [3]=30)

# Printing Arrays

- If your array is

  arr=(red green white blue orange)

- Will Print all elements of array

  echo ${arr[@]}

  echo ${arr[*]}

  echo ${arr[@]:0}

  echo ${arr[*]:0}

- # To print first element

  echo ${arr[0]}

  echo ${arr}

# To print particular element

echo ${arr[3]}

echo ${arr[1]}

- # To print elements from a particular index

echo ${arr[@]:0}

echo ${arr[@]:1}

echo ${arr[@]:2}

echo ${arr[0]:1}

echo ${arr[0]:3}

- # To print elements in range

  echo ${arr[@]:1:4}

  echo ${arr[@]:2:3}

  echo ${arr[0]:1:3}


- # Length of Particular element

  echo ${#arr[0]}

  echo ${#arr}


- # Size of an Array

  echo ${#arr[@]}

  echo ${#arr[*]}

- # Search in Array

  echo ${arr[@]/*[aA]*/}

- # Replacing Substring Temporary

  echo ${arr[@]//a/A}

  echo ${arr[@]}

  echo ${arr[0]//r/R}