

# POSITIONAL PARAMS

Thursday, 20 May 2021

2:03 PM

## Script Parameters and {}

- Parameters to a shell program: \$1, \$2, ...
- Called "positional parameters"
- To reference multidigit use {}, e.g., \${10}
- \$0 is the path to the program itself:

For example, echo Usage: \$0 arg1 ....

SHIFT PARAMETERS:

## Script Parameters and {}

- Shift moves \$2 into \$1, \$3 into \$2, etc.
- It is sometimes handy or required to use {} with named variable, e.g., echo \${abc}DEF.
- x=abc  
abc=def  
echo \$1\$2 ... def ...



`echo ${!X} prints def. Indirection!`

## UNSET AND NULL VARIABLES

### Unset or Null Variables

- `${variable <OPR> value}`  
`x=${var:-Hotdog}`
- `:-` if var unset/null, return value; otherwise, return value of var
- `:=` if var unset/null var is assigned value & returned

### Unset or Null Variables

- `?:` Displays an error and exit script if var unset/null
- `:+` if var unset/null return nothing; otherwise, return value



## STRING OPERATORS:

### String Operations

- `${var:offset}`—value of var starting at offset
- `${var:offset:len}`—value of var starting at offset up to length len
- `${#var}`—length of var

### String Operations

- `${var#pre}`—remove matching prefix
- `${var%post}`—remove suffix
- `prefix` and `postfix`—handy for processing filenames/paths

