BASH SCRIPTING (CH10)

RECAP: SO FAR

- Creating and running
- Poundbang, comments
- Arguments, variables
- Arithmetic
- Conditionals
- Loops

ARRAYS

- Similar to arrays/lists in other languages
- Initializing:
 - arr=(hello world)
 - arr_ex2[2]=hello
 arr_ex2[3]=world
 - arr ex3=()
 - declare -a arr ex4

ARRAYS (CONT.)

- Accessing elements:
 - Bracket notation
 - \${arr[0]}
- Appending elements:
 - arr+= (goodbye bonjour)
- Accessing slice:
 - \${arr[@]:start:num}

ARRAYS (CONT.)

- Special Accessing
 - \${arr[@]} all elements
 - \$ {arr[*]} all elements as one string
- Special Values
 - \${!arr[@]} array indices
 - \$ { #arr[@] } number of elements in array

ASSOCIATIVE ARRAYS

- Can use non-integer indices
- aka maps, dictionaries in other languages
- Example:

```
declare -A aa_ex1
aa_ex1=(
    [rainy]=6
    [cloudy]=7
    [warm]=1
)
```

FUNCTIONS

• Definition:

```
function_name () {
  commands
}
```

- Calling: just function name
- Parameters:
 - Call function name with arguments (like we'd call bash script with arguments)
 - Access within function like you access arguments to bash script
 - Aka: use \$1, \$2, ...