epam

Positional arguments

- **What are positional arguments and positional parameters**
- **How to parametrize your script**

TRAINING

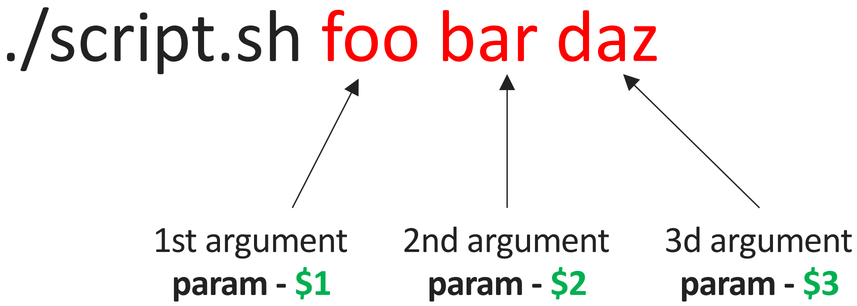
CENTER

epam

Positional arguments

from ***GNU Bash manual:***

A *positional parameter* is a parameter denoted by one or more digits, other than the single digit 0. Positional parameters are assigned from the shell’s arguments when it is invoked, and may be reassigned using the **set** builtin command. Positional parameter N may be referenced as ${N}, or as $N when N consists of a single digit.



./script.sh foo bar daz

1st argument **param - $1**

2nd argument **param - $2**

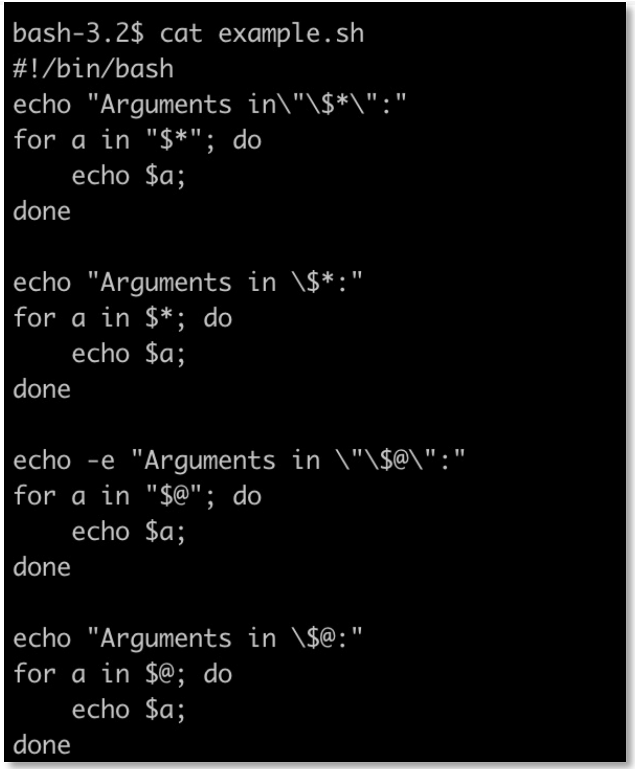
3d argument **param - $3**

Positional arguments are also work for **functions**.

Positional arguments variables

Variable	Value
$n or ${n}	N-th (positional) argument passed in a command line
$*	All arguments in command line in a form of a single string variable, broken down by a delimiter ($IFS)
“$*”	All arguments in command line in a form of a single string variable
$@	All arguments in command line in a form of an array
“$@”	All arguments in command line in a form of quoted strings
$#	Number of arguments passed in a command line

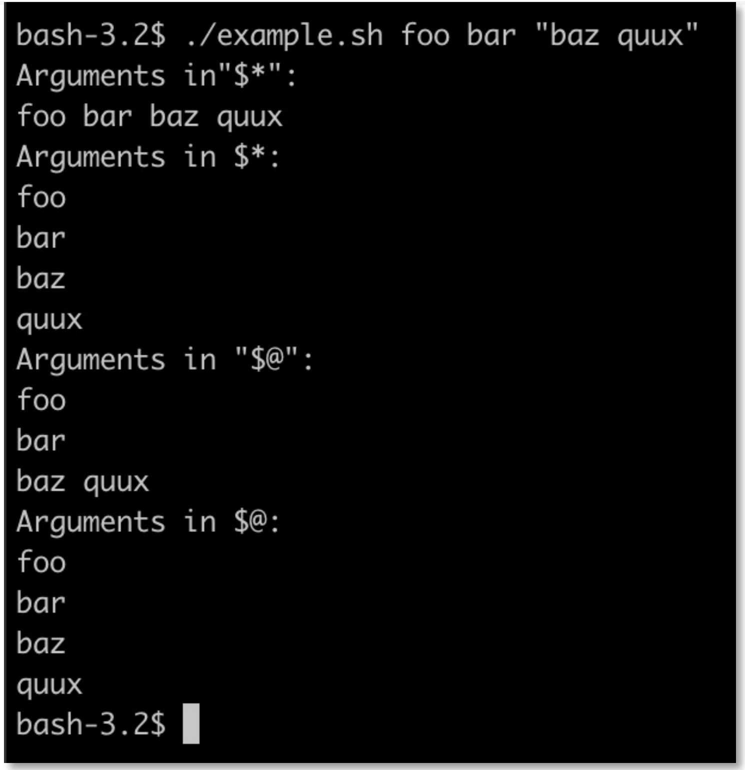
Arguments variables usage



```
bash-3.2$ cat example.sh
#!/bin/bash
echo "Arguments in\"\$*\":"
for a in "$*"; do
    echo $a;
done

echo "Arguments in \$*:"
for a in $*; do
    echo $a;
done

echo -e "Arguments in \"\$@\":"
for a in "$@"; do
    echo $a;
done

echo "Arguments in \$@:"
for a in $@; do
    echo $a;
done
```

Code

→



```
bash-3.2$ ./example.sh foo bar "baz quux"
Arguments in"$*":
foo bar baz quux
Arguments in $*:
foo
bar
baz
quux
Arguments in "$@":
foo
bar
baz quux
Arguments in $@:
foo
bar
baz
quux
bash-3.2$ █
```

Execution

Positional arguments

Thanks for watching!