



-  _____
-  _____
 -  _____
 -  _____
 -  _____
-  _____
-  _____
-  _____
-  _____
-  _____
-  _____

 array

0



ARRAY[INDEX]=value

 ARRAY 


INDEX

0  1 



```
$ array[0]=val
$ array[1]=val
$ array[2]=val
```



```
ARRAY=(value1 value2 ... valueN)
```

```
#  
```

```
ARRAY=(  
    value1  
    value2  
    value3  
)
```

```
ARRAY=(
    value1
    value2
    value3
)
```

```
$ array=(a b c)
$ array=( [2]=c [0]=a [1]=b)

$ days=(Sun Mon Tue Wed Thu Fri Sat)
$ days=( [0]=Sun [1]=Mon [2]=Tue [3]=Wed [4]=Thu [5]=Fri [6]=Sat)
```

```
names=(hatter [5]=duchess alice)
```

hatter 0 duchess 5 alice 6

```
$ mp3s=( *.mp3 )
```

```
$ declare -a ARRAYNAME
```

`read -a`

```
$ read -a dice
```

dice



```
$ echo ${array[i]}      # i  
```



```
$ array[0]=a

$ echo ${array[0]}
a

$ echo $array[0]
a[0]
```



```
$ foo=(a b c d e f)
$ echo ${foo[@]}
a b c d e f
```



```
for i in "${names[@]}"; do
    echo $i
done
```



```
$ activities=( swimming "water skiing" canoeing "white-water rafting" surfing )
$ for act in ${activities[@]}; \
```

```
do \  
echo "Activity: $act"; \  
done
```

```
Activity: swimming  
Activity: water  
Activity: skiing  
Activity: canoeing  
Activity: white-water  
Activity: rafting  
Activity: surfing
```

```
activities 5 for...in ${activities[@]}  
7 ${activities[@]}
```

```
$ for act in "${activities[@]}"; \  
do \  
echo "Activity: $act"; \  
done
```

```
Activity: swimming  
Activity: water skiing  
Activity: canoeing  
Activity: white-water rafting  
Activity: surfing
```

```
${activities[@]}
```

```
${activities[*]} ${activities[@]}
```

```
$ for act in ${activities[*]}; \  
do \  
echo "Activity: $act"; \  
done
```

```
Activity: swimming  
Activity: water  
Activity: skiing  
Activity: canoeing  
Activity: white-water  
Activity: rafting
```

Activity: surfing

`${activities[*]}` 

```
$ for act in "${activities[*]}"; \  
do \  
echo "Activity: $act"; \  
done
```

Activity: swimming water skiing canoeing white-water rafting surfing



```
$ hobbies=( "${activities[@]}" )
```



`activities` 

`hobbies` 



```
$ hobbies=( "${activities[@]}" diving )
```



`hobbies` 

`activities` 





`0` 

```
$ declare -a foo  
$ foo=A  
$ echo ${foo[0]}  
A
```



`foo` 

`foo[0]` 



`0` 

```
$ foo=(a b c d e f)  
$ echo ${foo}  
a  
$ echo $foo  
a
```

██

0████

████████

██

```
#!/usr/bin/perl
my @array = (1..100);
print $#array[*], "\n";
print $#array[@], "\n";
```

████████

```
#!/usr/bin/perl
my @a = (1..100);
$a[100] = "foo";

my $count = 0;
while ($count < 100) {
    print $#a[*], "\n";
    $count++;
}

my $count = 0;
while ($count < 100) {
    print $#a[@], "\n";
    $count++;
}
```

████████████████

100██

██

```
#!/usr/bin/perl
my @a = (1..100);
$a[100] = "foo";

my $count = 0;
while ($count < 100) {
    print $#a[100], "\n";
    $count++;
}
```

████████

#!/usr/bin/perl
my @a = (1..100);
\$a[100] = "foo";
print \$#a[100], "\n";

100██

a[100]██

foo████████

████████

#!/usr/bin/perl
my @a = (1..100);
\$a[100] = "foo";
print \$#a[100], "\n";

```
#!/usr/bin/perl
my @arr = (1..100);
$arr[5] = "a";
$arr[9] = "b";
$arr[23] = "c";

my $count = 0;
while ($count < 100) {
    print $#arr[@], "\n";
    $count++;
}

my $count = 0;
while ($count < 100) {
    print $#arr[*], "\n";
    $count++;
}
```

5 9 23

for

```
arr=(a b c d)

for i in ${!arr[@]};do
    echo ${arr[i]}
done
```



\${array[@]:position:length}

```
$ food=( apples bananas cucumbers dates eggs fajitas grapes )
$ echo ${food[@]:1:1}
bananas
$ echo ${food[@]:1:3}
bananas cucumbers dates
```

`${food[@]:1:1}` 1 `${food[@]:1:3}` 1 3

length

```
$ echo ${food[@]:4}
eggs fajitas grapes
```

4



+=

```
$ foo=(a b c)
$ echo ${foo[@]}
a b c
```

```
$ foo+=(d e f)
$ echo ${foo[@]}
a b c d e f
```



unset

```
$ foo=(a b c d e f)
$ echo ${foo[@]}
a b c d e f
```

```
$ unset foo[2]
$ echo ${foo[@]}
a b d e f
```



2



“ ”

```
$ foo=(a b c d e f)
$ foo[1]=''
$ echo ${foo[@]}
a c d e f
```



“ ”



```
$ foo=(a b c d e f)
$ foo[1]=''
$ echo ${#foo[@]}
6
$ echo ${!foo[@]}
0 1 2 3 4 5
```



6



```
$ foo[1]=
```

```
[[[["[" "]]]]]
```

```
[[[["[" "]]]]] ["[" "]]]]]
```

```
$ foo=(a b c d e f)
```

```
$ foo=' '
```

```
$ echo ${foo[@]}
```

```
b c d e f
```

```
[[[["[" "]]]]]
```

```
unset ArrayName [[[["[" "]]]]]
```

```
$ unset ARRAY
```

```
$ echo ${ARRAY[*]}
```

```
<--no output-->
```

```
[[[["[" "]]]]]
```

```
Bash [[[["[" "]]]]]
```

```
declare -A [[[["[" "]]]]]
```

```
declare -A colors
```

```
colors["red"]="ff0000"
```

```
colors["green"]="00ff00"
```

```
colors["blue"]="0000ff"
```

```
[[[["[" "]]]]] -A [[[["[" "]]]]] declare
```

```
[[[["[" "]]]]]
```

```
[[[["[" "]]]]]
```

```
echo ${colors["blue"]}
```

```
[[[["[" "]]]]] #2
```

```
[[[["[" "]]]]] cocobook-sync [[[["[" "]]]]] 2026-10-28 10:53:18 UTC
```

```
[[[["[" "]]]]] cocobook-sync [[[["[" "]]]]] 2026-10-28 11:28:40 UTC
```