

10. Variables - Part II

Each time you run a script, the values of the variables are determined at that time. For example, if you run a script that sets a variable to a specific value, that value will be the same every time you run the script.

Let's create a script that takes some input from the user and prints it out. We'll use the `$0` variable to get the script name, `$#` to get the number of arguments, `$1` to get the first argument, and `$@` to get all the arguments. We'll also use `echo` to print out the arguments.

```
#!/bin/sh
echo "I was called with $# parameters"
echo "My name is $0"
echo "My first parameter is $1"
echo "My second parameter is $2"
echo "All parameters are $@"
```

Let's run the script with some arguments:

```
$ /home/steve/var3.sh
I was called with 0 parameters
My name is /home/steve/var3.sh
My first parameter is
My second parameter is
All parameters are
$
$ ./var3.sh hello world earth
I was called with 3 parameters
My name is ./var3.sh
My first parameter is hello
My second parameter is world
All parameters are hello world earth
```

Let's create a script that takes some input from the user and prints it out. We'll use the `$0` variable to get the script name, `$#` to get the number of arguments, `$1` to get the first argument, and `$@` to get all the arguments. We'll also use `echo` to print out the arguments.

```
echo "My name is `basename $0`"
```

\$# \$1 ... \$2 . shift 9
 :

```
#!/bin/sh
while [ "$#" -gt "0" ]
do
    echo "$1 is $1"
    shift
done
```

□ □□□□ \$#□ 0□ □ □□ , □ □□ □□ □□ □□ shift□ □□□□ .





 \$? 



































```
#!/bin/sh
/usr/local/bin/my-command
if [ "$?" -ne "0" ]; then
    echo "Sorry, we had a problem there!"
fi
```

[illegible][illegible]

```

[[{"id": 1, "text": "1. 脚本文件 my-script.sh 位于 /tmp 目录下。", "x": 10, "y": 10, "w": 200, "h": 20}, {"id": 2, "text": "2. 脚本内容如下：", "x": 10, "y": 30, "w": 150, "h": 20}, {"id": 3, "text": "#!/bin/bash", "x": 10, "y": 50, "w": 100, "h": 20}, {"id": 4, "text": "echo \"Hello, World!\"", "x": 10, "y": 70, "w": 150, "h": 20}, {"id": 5, "text": "exit 0", "x": 10, "y": 90, "w": 80, "h": 20}, {"id": 6, "text": "3. 使用 chmod +x my-script.sh 赋予执行权限。", "x": 10, "y": 110, "w": 300, "h": 20}, {"id": 7, "text": "4. 使用 ./my-script.sh 运行脚本。", "x": 10, "y": 130, "w": 200, "h": 20}, {"id": 8, "text": "5. 输出结果为：", "x": 10, "y": 150, "w": 150, "h": 20}, {"id": 9, "text": "Hello, World!", "x": 10, "y": 170, "w": 150, "h": 20}, {"id": 10, "text": "6. 脚本执行成功。", "x": 10, "y": 190, "w": 150, "h": 20}, {"id": 11, "text": "7. 脚本文件 my-script.sh 位于 /tmp 目录下。", "x": 10, "y": 210, "w": 300, "h": 20}, {"id": 12, "text": "8. 脚本内容如下：", "x": 10, "y": 230, "w": 150, "h": 20}, {"id": 13, "text": "#!/bin/bash", "x": 10, "y": 250, "w": 100, "h": 20}, {"id": 14, "text": "echo \"Hello, World!\"", "x": 10, "y": 270, "w": 150, "h": 20}, {"id": 15, "text": "exit 0", "x": 10, "y": 290, "w": 80, "h": 20}, {"id": 16, "text": "9. 使用 chmod +x my-script.sh 赋予执行权限。", "x": 10, "y": 310, "w": 300, "h": 20}, {"id": 17, "text": "10. 使用 ./my-script.sh 运行脚本。", "x": 10, "y": 330, "w": 200, "h": 20}, {"id": 18, "text": "11. 输出结果为：", "x": 10, "y": 350, "w": 150, "h": 20}, {"id": 19, "text": "Hello, World!", "x": 10, "y": 370, "w": 150, "h": 20}, {"id": 20, "text": "12. 脚本执行成功。", "x": 10, "y": 390, "w": 150, "h": 20}, {"id": 21, "text": "13. 脚本文件 my-script.sh 位于 /tmp 目录下。", "x": 10, "y": 410, "w": 300, "h": 20}, {"id": 22, "text": "14. 脚本内容如下：", "x": 10, "y": 430, "w": 150, "h": 20}, {"id": 23, "text": "#!/bin/bash", "x": 10, "y": 450, "w": 100, "h": 20}, {"id": 24, "text": "echo \"Hello, World!\"", "x": 10, "y": 470, "w": 150, "h": 20}, {"id": 25, "text": "exit 0", "x": 10, "y": 490, "w": 80, "h": 20}, {"id": 26, "text": "15. 使用 chmod +x my-script.sh 赋予执行权限。", "x": 10, "y": 510, "w": 300, "h": 20}, {"id": 27, "text": "16. 使用 ./my-script.sh 运行脚本。", "x": 10, "y": 530, "w": 200, "h": 20}, {"id": 28, "text": "17. 输出结果为：", "x": 10, "y": 550, "w": 150, "h": 20}, {"id": 29, "text": "Hello, World!", "x": 10, "y": 570, "w": 150, "h": 20}, {"id": 30, "text": "18. 脚本执行成功。", "x": 10, "y": 590, "w": 150, "h": 20}, {"id": 31, "text": "19. 脚本文件 my-script.sh 位于 /tmp 目录下。", "x": 10, "y": 610, "w": 300, "h": 20}, {"id": 32, "text": "20. 脚本内容如下：", "x": 10, "y": 630, "w": 150, "h": 20}, {"id": 33, "text": "#!/bin/bash", "x": 10, "y": 650, "w": 100, "h": 20}, {"id": 34, "text": "echo \"Hello, World!\"", "x": 10, "y": 670, "w": 150, "h": 20}, {"id": 35, "text": "exit 0", "x": 10, "y": 690, "w": 80, "h": 20}, {"id": 36, "text": "21. 使用 chmod +x my-script.sh 赋予执行权限。", "x": 10, "y": 710, "w": 300, "h": 20}, {"id": 37, "text": "22. 使用 ./my-script.sh 运行脚本。", "x": 10, "y": 730, "w": 200, "h": 20}, {"id": 38, "text": "23. 输出结果为：", "x": 10, "y": 750, "w": 150, "h": 20}, {"id": 39, "text": "Hello, World!", "x": 10, "y": 770, "w": 150, "h": 20}, {"id": 40, "text": "24. 脚本执行成功。", "x": 10, "y": 790, "w": 150, "h": 20}, {"id": 41, "text": "25. 脚本文件 my-script.sh 位于 /tmp 目录下。", "x": 10, "y": 810, "w": 300, "h": 20}, {"id": 42, "text": "26. 脚本内容如下：", "x": 10, "y": 830, "w": 150, "h": 20}, {"id": 43, "text": "#!/bin/bash", "x": 10, "y": 850, "w": 100, "h": 20}, {"id": 44, "text": "echo \"Hello, World!\"", "x": 10, "y": 870, "w": 150, "h": 20}, {"id": 45, "text": "exit 0", "x": 10, "y": 890, "w": 80, "h": 20}, {"id": 46, "text": "27. 使用 chmod +x my-script.sh 赋予执行权限。", "x": 10, "y": 910, "w": 300, "h": 20}, {"id": 47, "text": "28. 使用 ./my-script.sh 运行脚本。", "x": 10, "y": 930, "w": 200, "h": 20}, {"id": 48, "text": "29. 输出结果为：", "x": 10, "y": 950, "w": 150, "h": 20}, {"id": 49, "text": "Hello, World!", "x": 10, "y": 970, "w": 150, "h": 20}, {"id": 50, "text": "30. 脚本执行成功。", "x": 10, "y": 990, "w": 150, "h": 20}]]

```

[illegible]

```
#!/bin/sh
old_IFS="$IFS"
IFS=:
```

```
echo "Please input some data separated by colons ..."  
read x y z  
IFS=$old_IFS  
echo "x is $x y is $y z is $z"
```

❏ ❏❏❏❏ ❏❏ ❏❏ ❏❏❏❏ :

```
$ ./ifs.sh  
Please input some data separated by colons ...  
hello:how are you:today  
x is hello y is how are you z is today
```

❏❏ ❏❏ "[hello:how are you:today:my:friend"❏❏ ❏❏❏❏ ❏❏❏ ❏❏ ❏❏❏❏ :

```
$ ./ifs.sh  
Please input some data separated by colons ...  
hello:how are you:today:my:friend  
x is hello y is how are you z is today:my:friend
```

❏❏ IFS❏ ❏❏ ❏❏ ❏❏ , ❏❏ ❏ ❏❏ "❏❏❏ ❏ ❏❏ " ❏❏❏ ❏❏❏ ❏ ❏❏❏ ❏❏ ❏❏❏❏ ❏❏
❏❏❏❏ . ❏❏❏ ❏❏❏❏ ❏❏ ❏❏ ❏❏❏❏ (❏❏ : old_IFS=\$IFS ❏❏ old_IFS="\$IFS").

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