



Workshop Script Bash

Qu'est ce que le langage Bash ?



Quelle difference avec la piscine ?



```
#!/bin/bash
find . -type "f" | wc -l
```



```
#!/bin/bash
ls | find . -name "*.sh"
```

```
#!/bin/bash
#!/bin/bash
#####
## Reminder in bash
## github.com/maelbecel
#####

REMINDER_FILE=~/.scripts/reminder/reminder.txt

function list_reminder() {
    echo "List all reminders"
    while read Line; do
        IFS=" " read -ra Reminder << "$Line"
        if [[ ${Reminder[1]} == $(date +%Y-%m-%d) ]]; then
            if [[ ${Reminder[2]} == $(date +%H:%M) ]]; then
                echo -e "\e[33m[Now]\e[0m   $Line"
            elif [[ ${Reminder[2]} > $(date +%H:%M) ]]; then
                echo -e "\e[33m[Today]\e[0m  $Line"
            else
                echo -e "\e[31m[Old]\e[0m    $Line"
            fi
        elif [[ ${Reminder[1]} < $(date +%Y-%m-%d) ]] && [[ ${Reminder[2]} < $(date +%H:%M) ]]; then
            echo -e "\e[31m[Old]\e[0m    $Line"
        else
            echo -e "\e[32m[Future]\e[0m  $Line"
        fi
    done < $REMINDER_FILE
}

function remove_reminder() {
    echo "Remove all reminders"
    echo "Are you sure? (y/n)"
    read Answer
    if [[ $Answer == "y" ]]; then
        echo -n "" > $REMINDER_FILE
        echo "All reminders removed"
    fi
}

function check_reminder() {
    while read Line; do
        IFS=" " read -ra Reminder << "$Line"
        if [[ ${Reminder[1]} == $(date +%Y-%m-%d) ]]; then
            if [[ ${Reminder[2]} == $(date +%H:%M) ]]; then
                read a b c d << "${Reminder[*]}"
                kdialog --sorry "${date +%H:%M}%n%d" >> /dev/null &
            fi
        fi
    done < $REMINDER_FILE
}

function check_old_reminder() {
    echo "Check for old reminders"
    while read Line; do
        IFS=" " read -ra Reminder << "$Line"
        if [[ ${Reminder[1]} < $(date +%Y-%m-%d) ]]; then
            read a b c d << "${Reminder[*]}"
            echo "$d"
        fi
    done < $REMINDER_FILE
}

function delete_old_reminder() {
    echo "Delete old reminders"
    echo "Are you sure? (y/n)"
    read Answer
    if [[ $Answer == "y" ]]; then
        while read Line; do
            IFS=" " read -ra Reminder << "$Line"
            if [[ ${Reminder[1]} < $(date +%Y-%m-%d) ]]; then
                sed "/~${Reminder[0]}/d" $REMINDER_FILE
            fi
        done < $REMINDER_FILE
        echo "Old reminders deleted"
    fi
}

function main() {
    if [ $# == 9 ]; then
        cat_readme
    else
        case $1 in
            "-r")
                remove_reminder
                ;;
            "-c")
                check_reminder
                ;;
            "-p")
                check_old_reminder
                ;;
            "-o")
                delete_old_reminder
                ;;
            *)
                echo "Invalid option"
                cat_readme
                ;;
        esac
    fi
}

main $1
```

Quelques commandes utiles :



```
curl : Recuperer le contenu d'une URL  
wget : Telecharger un fichier sur le WEB  
jq   : Parse un resultat au format JSON  
echo : Affiche dans l'output  
read : Lit un texte en entrée  
date : Renvoie la date
```



Les variables



```
number=3
```



```
string="3"
```



```
output=$(echo "3")
```



```
variable_a=5  
variable_b=8  
somme=$((a + b))
```



```
echo $variable
```



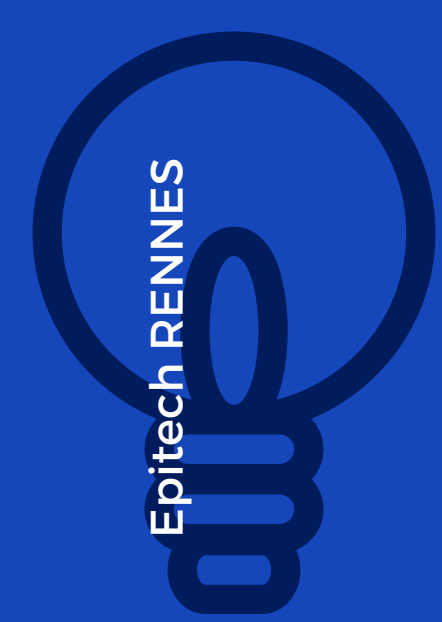
Les variables



```
nb_file= ???  
nb_file_last= ???  
  
sum= ???  
  
[...]
```



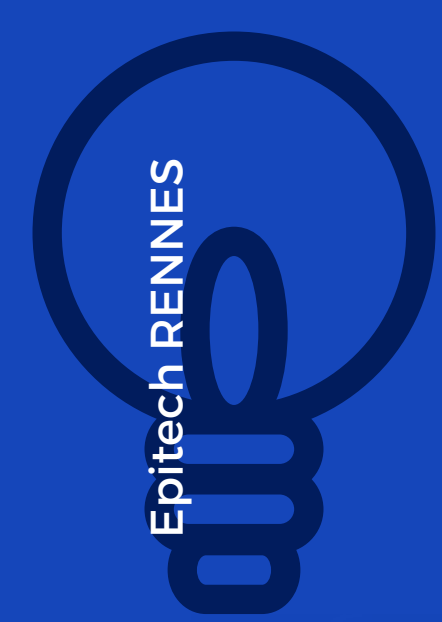
Il y'a 8 fichiers dans le dossier, 3 dans le precedent, soit un total de 11 fichiers.



Les conditions



```
if [ condition ]; then
    ## Code
elif [ autre condition ]; then
    ## Code
else
    ## Code
fi
```



Les conditions



Autres conditions :



```
if [ -z "$string" ]; then  
    ## Code  
fi
```



```
if [ -f ~/fichier ]; then  
    ## Code  
fi
```

-eq

-ne

-gt

-ge

-lt

-le



Les conditions



```
$ > ./file.sh  
Entrez votre age : #18  
Vous etes tout juste majeur !
```



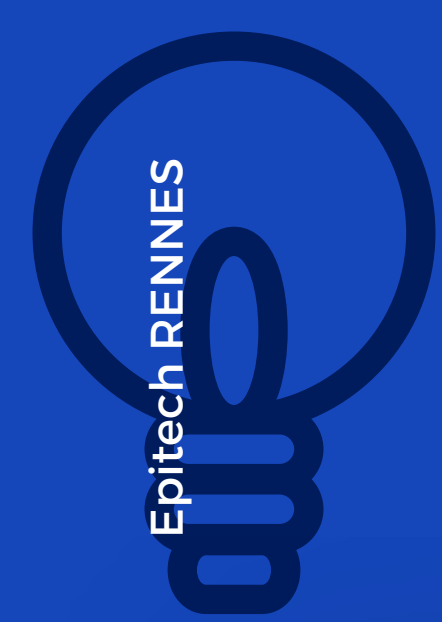
```
$ > ./file.sh  
Entrez votre age : #8  
Vous etes mineur !
```



```
$ > ./file.sh  
Entrez votre age : #34  
Vous etes majeur !
```



```
$ > ./file.sh  
Entrez votre age : #buckfordo  
Entrez un age valide !
```



Les Boucles



```
while (( $variable != 0 )); do
    # Code
done
```



```
for (( variable=0; variable<=9; variable++ )); do
    # Code
done
```



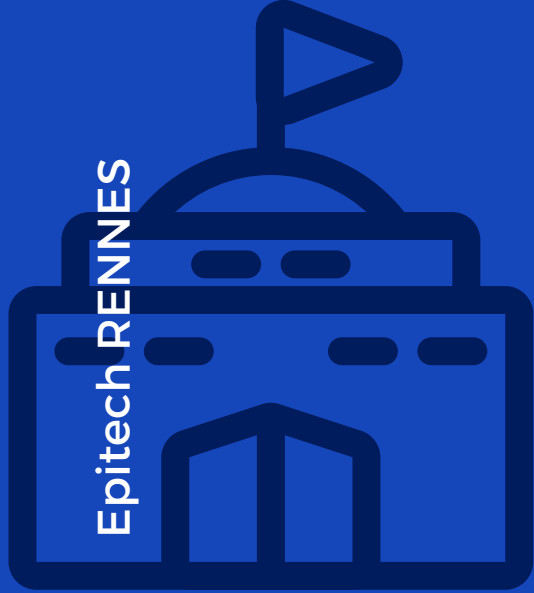
```
for tmp_var in Array; do
    # Code
done
```



Les Boucles



```
● ● ●  
  
$ > ./file.sh 3  
1  
2  
3  
  
$ > ./file.sh 56  
1  
2  
3  
4  
[...]  
55  
56  
  
$ > ./file.sh  
$ > ./file.sh notanumber  
Error argument should be a number.
```



Juste prix



```
$ > ./justeprix 100
```

```
Entrez votre nombre: 12
```

```
C'est plus.
```

```
Entrez votre nombre: 60
```

```
C'est moins
```

```
Entrez votre nombre: 50
```

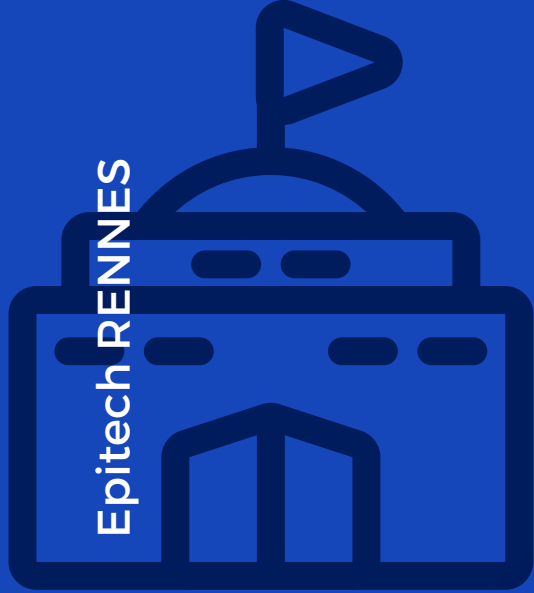
```
C'est plus
```

```
Entrez votre nombre: 54
```

```
C'est moins
```

```
Entrez votre nombre: 53
```

```
Felicitations vous avez trouvez en 5 essais.
```



Auto Commit



```
$ > ./autocommit
```

```
Types de commits : #feat fix refactor
```

```
Fichiers concernés : #src/main doc/
```

```
Message : Ajout du main
```

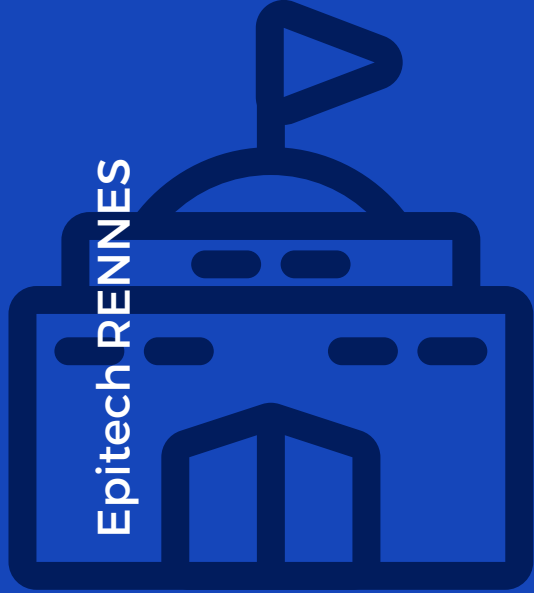
```
git add src/main doc/ &&
```

```
git commit -m "feat fix refactor (src/main, doc/): Ajout du main" &&
```

```
git push
```

```
Executer ? (y/n) : y
```

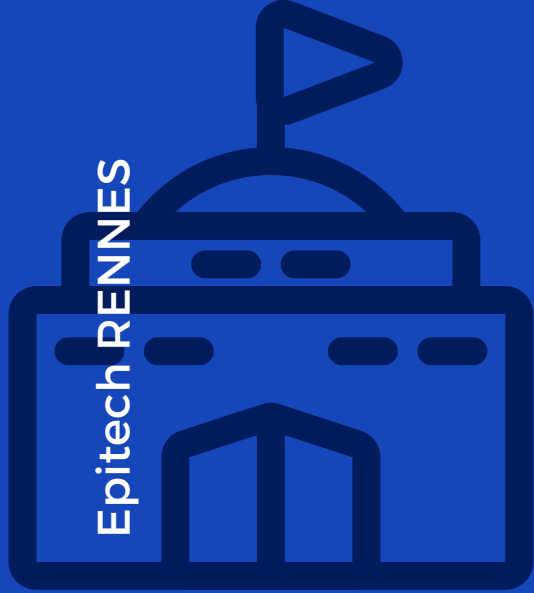
```
Succes
```



Lettrometre



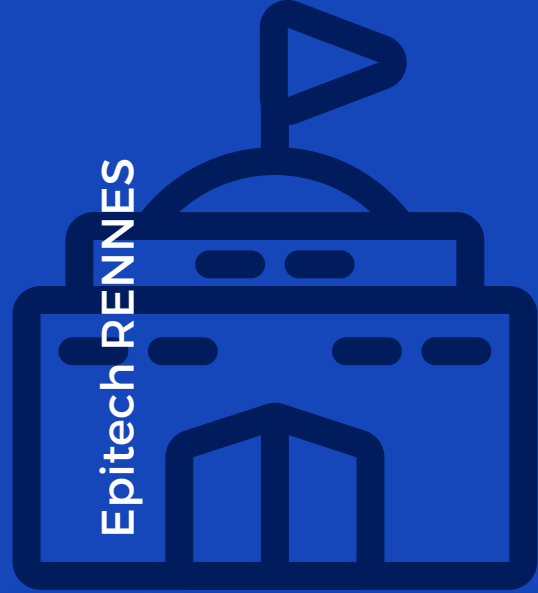
```
$ > ls .  
file_a  file_b  file_c  lettrometre  
  
$ > ./lettrometre a  
12 fois dans file_a  
2 fois dans file_b  
6 fois dans lettrometre  
Soit 20 fois dans le dossier.
```



Download Cleaner



```
● ● ●  
  
$ > ls ~/Downloads  
oldfile1  oldfile2  newfile1  newfile2  
  
$ > ./download_manager 30  
oldfile1 not modified from 33 days.  
Delete oldfile1 ? (y/n) : y  
oldfile1 have been deleted.  
oldfile2 not modified from 45 days.  
Delete oldfile1 ? (y/n) : n  
  
$ > ./download_manager 40  
oldfile2 not modified from 45 days.  
Delete oldfile1 ? (y/n) : y  
oldfile2 have been deleted.
```



Download Manager



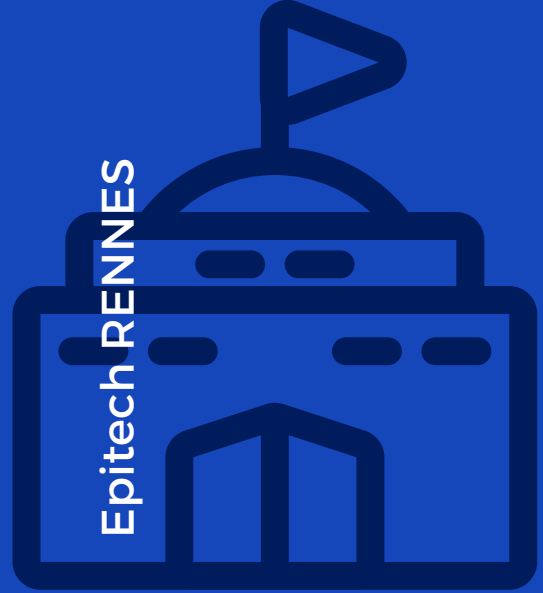
```
$ > tree ~/Downloads
```

```
.  
|  
|- audio/  
|- image/  
|- code/  
|- text/  
|- other/  
|- fichier.png  
|- fichier.html  
|- dossierzip.zip  
|- dossierzip.tgz  
|- fichier.c  
\- musique.mp3
```

```
$ > ./download_manager
```

```
$ > tree ~/Downloads
```

```
.  
|  
|- audio/  
    \- musique.mp3  
|- image/  
    \- fichier.png  
|- code/  
    |- fichier.html  
    \- fichier.c  
|- text/  
\- other/  
    |- dossierzip.zip  
    \- dossierzip.tgz
```

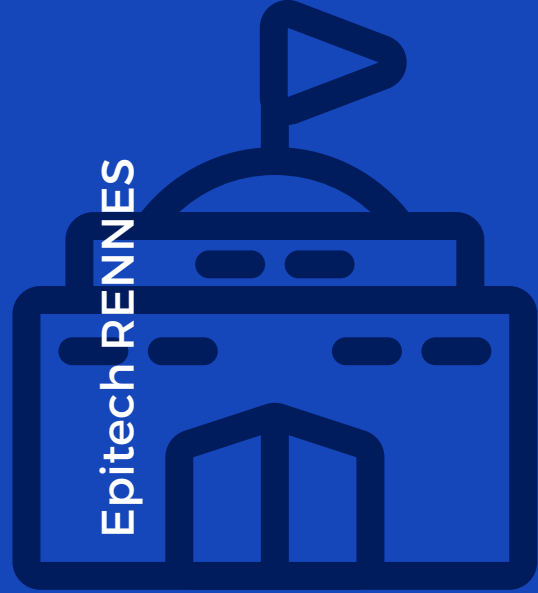
Commit generator



WHAT THE COMMIT!



```
$ > ./commitgenerator 1  
features  
$ > ./commitgenerator 5  
trying to do something right!  
$ > ./commitgenerator 5  
David made me do it  
$ > ./commitgenerator 7  
Never gonna run around and desert you
```



Weather



IpInfo



OpenStreetMap



Open Meteo

```
$ > ./weather
Bruz,Brittany
48.0245814, -1.7471629
temperature: 18°C
precipitation: 0mm
cloudcover: 84%
windspeed: 15.3km/h
winddirection: 223°
```



```
$ > ./weather

/  ----  ---\  /\  /-  Bruz
/|  /  ---/  \  |  Brittany
|  /  /\  \  |  Latitude: 48.0245814
|  /  \  ---/  \-  Longitude: -1.7471629

N
/ \  Wind Direction : 228°
W ↗ E
\ /  Wind Speed : 9.2 km/h
S

Cloudcover:  (84%)
Precipitation: 0mm
```

Des bonus !