

# Programming

<http://rogerdudler.github.io/git-guide/>

## Bash



### root-check

```
if [ $UID -eq 0 ];then echo "root";fi
```

### online-check

```
ping -c 1 ${HOST} -W 1 >/dev/null
if [ $? == 0 ];
then

fi
```

### colors

```
clr_red=$'\e[1;31m'
clr_green=$'\e[1;32m'
clr_yellow=$'\e[1;33m'
clr_blue=$'\e[1;34m'
clr_reset=$'\e[0m'
```

```
echo ${clr_red}test${clr_reset}
```

### logging

log single command (only stderr) and view simultaneously (stdout+stderr)

```
#via Process Substitution
(https://www.gnu.org/software/bash/manual/bash.html#Process-Substitution)
make 2> >( tee "$logfile" ) ; echo $?
```

log multiple lines/commands:

```
exec 3> >(tee logfile)
```

```
make alpha 2>&3 &&
make bravo 2>&3 &&
make charlie 2>&3 && success=1

exec 3>&-
```

## Case

```
case "$string" in
  *foo*)
    #anything
    ;;
  [1-6]*)
    #number-ranges
    ;;
  *)
    #all other
    ;;
esac
```

## stringmanipulation

In Bash 4: all lowercase

```
$ echo "${string,,}"
```

all uppercase:

```
$ echo "${string^^}"
```

[Quelle](#)

## path / filename

```
$ VAR=/home/me/mydir/file.c
$ DIR=$(dirname "${VAR}")
$ echo "${DIR}"
/home/me/mydir
$ basename "${VAR}"
file.c
```

## substrings

```
a=string
b=${a:p:l}
```

```
#p=Position (0-basiert),l=Länge
```

## replace

```
orig="AxxBCyyyDEFzzLMN"  
mod=${orig//[xyz]/_}
```

## Regex-Check

```
string='My string';  
  
if [[ $string =~ .*My.* ]]  
then  
    echo "It's there!"  
fi
```

## calculation

```
GPIO_NO=$((232+25))
```

## Number-Ranges

```
ls IMG_20170923_{17..18}*
```

## terminal language

temporary change language (e.g. to get errors in english for forums):

```
LANG=C
```

## Batch

## C/C++

## CSS

## JavaScript

# HTML

# PHP

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