

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

```
GPI0_N0=$((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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