Programming

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

Bash

🔧 Fix Me!

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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