ICAT Linux CheatSheet

Permissions

Ingredience

short	long	file	dir
r	read	read	is shown
W	write	write	create stuff in it
x	execute	execute it	enter it

ls-command

-rw-r--r- 1 kniepbert staff 10 4 Aug 08:24 unit1.pdf

Misc

Oneliner

```
To concatenate commands in one line use && and;

cmd1 && cmd2 fires cmd2 if cmd1 was successfull

cmd1; cmd2 fires cmd2 whatever result cmd1 has
```

Errorcode

Every command gives back an Errorcode between 0-255. If everything went alright its 0. Its stored in the Variable \$?.

```
$ touch test ; echo $?
0
$ ls test ; echo $?
ls: test: No such file or directory
1
```

Within your own script you could create an errorcode with ${\tt exit}\ {\tt VALUE}$

variables

You could assign values or stdout to variables. Don't use blanks!

```
$ var=1 ; echo ${var}
1
$ var = 1
-bash: var: command not found
$ var="Hello World" ; echo ${var}
Hello World
$ ls
unit1.tex unit2.tex unit3.tex
$ var='ls'
$ echo ${var}
unit1.tex unit2.tex unit3.tex
```

Compare

if-then-else

To check a condition and act acording to the result use if-then-else:

```
if [ CONDITION ]
then
CONSEQUENCE
else
```

ALTERNATIVE

fi

if there is only one command after then/else

```
if [ CONDITION ]
    then CONSEQUENCE
    else ALTERNATIVE
    fi

for linebreaks use;
if [ CONDITION ]; then cmd1; else cmd2; fi
```

conditions

use test to check and compare. Have a look at the manpage to list all posibile checks.

```
$ if [ -e test ]; then echo '1'; else echo '0'; fi
no
$ touch test
$ if [ -e test ]; then echo '1'; else echo '0'; fi
yes
$ if [ 1 -eq 1 ]; then echo '1'; else echo '0'; fi
yes
$ if [ 2 -eq 1 ]; then echo '1'; else echo '0'; fi
no
$ if [ 'Hi'=='Hi' ]; then echo '1'; else echo '0'; fi
yes
```