# SHORTCUTS

CTRL+A	# move to beginning of lin
CTRL+C	# halts the current comman
CTRL+E	# moves to end of line
CTRL+K	<pre># deletes (kill) forward t</pre>
CTRL+L	<pre># clears screen and redisp</pre>
CTRL+N	<pre># next line in command his</pre>
CTRL+P	<pre># previous line in command</pre>
exit	<pre># logs out of current sess</pre>

# DIRECTORY COMMANDS

<pre>mkdir <dirname></dirname></pre>	<pre># makes a</pre>
cd	<pre># changes</pre>
cd <dirname></dirname>	<pre># changes</pre>
pwd	# current

new directory to home directory directory

## CONDITIONAL STATEMENTS

#IF	#WHI
if condition	while
then	st
statements	done
[elif condition	
then statements]	unti
[else	st
STATEMENTSJ	done
[]	
<pre>#FOR LOOP for x in {110} do</pre>	
statements	
Done	
for name [in list] do	
statements that can use	\$name
done	
<pre>for (( initialisation ; e do</pre>	nding cond
statements	
done	

# BASH CHEAT-SHEET

# e

o end of line lay the line tory history ion

# BASH BASICS

env echo \$SHEI echo \$BASE bash whereis ba which bash clear

## LE

e condition; do atements

condition; do atements

### dition ; update ))

### FILE COMMANDS

ls	#	lists	your files in current directory
ls <dir></dir>	#	lists	of files in a specific directory
ls -1	#	lists	your files in 'long format' (e.g. f
ls -a	#	lists	all files, including hidden files

ln -s <filename> <</pre> cat <filename> more <filename> head <filename> tail <filename>

mv <filename1> <de</pre> cp <filename1> <de</pre> rm <filename> diff <filename1> < wc <filename>

chmod -options <fi gzip <filename> gunzip <filename> gzcat <filename>

grep <pattern> <filenames> # looks for the string in the files grep -r <pattern> <dir> # search recursively for pattern in directory

	<pre># all environment variables</pre>
LL	<pre># the shell you're using</pre>
H_VERSION	<pre># bash version</pre>
	# use bash
ash	# where bash is on your system
h	# which program is executed as
	# clears content on window

<link/>	#	creates symbolic link to fi
	#	prints file raw content (wi
	#	shows the first part of a f
	#	outputs the first lines of
	#	outputs the last lines of f
estination>	#	moves a file to destination
estination>	#	copies a file
	#	removes a file
<filename2></filename2>	#	compares files, and shows w
	#	number of lines, words and
ilename>	#	change the read, write, and
	#	compresses files using gzip
	#	uncompresses files compress
	#	look at gzipped file withou
ilenames>	#	looks for the string in the

#### 'bash' (default: /bin/bash)

```
file size, modified date)
.le
ll not be interpreted)
file (move with space, q to quit)
file (default: 10 lines)
file (default: 10 lines)
where they differ
characters in a file
execute permissions on file
algorithm
sed by gzip
it gunzip it
```

## FLOW CONTROLS

-a -0

statement1 && statement2 # and operator statement1 || statement2 # or operator # and operator inside a test conditional expression # or operator inside a test conditional expression

#### **#** STRINGS

str1 = str2str1 != str2 str1 < str2str1 > str2 -n str1 -z strl

```
# FILES
-a file
-d file
-e file
-f file
```

file1 -nt file2

-r file

-s file

-N file

-O file

-G file

# str1 matches str2 # str1 does not match str2 # str1 is less than str2 (alphabetically) # str1 is greater than str2 (alphabetically) # str1 is not null (has length greater than 0) # str1 is null (has length 0)

# file exists # file exists and is a directory # file exists; same -a # file exists and is a regular file # you have read permission # file exists and is not empty # file was modified since it was last read # you own file # file's group ID matches yours # file1 is newer than file2 file1 -ot file2 # file1 is older than file2

<b># NUMBERS</b>	
-lt	# less than
-le	# less than or e
-eq	# equal
-ge	# greater than o
-gt	<pre># greater than</pre>
-ne	<pre># not equal</pre>

# BASH CHEAT-SHEET

qual

r equal

cmd

< f: > f >> <>

n<>f n>fi n<fi n>>f

n>& n<&  $n \ge kn$ n<&n &>fi

-3> -3< n>&n<&-

> var ech exp \${‡ \$(t

# INPUT/OUTPUT REDIRECTORS

l cmd2	<pre># pipe; takes standard output of cmd1 as standard ing</pre>
ile	<pre># takes standard input from file</pre>
ile	<pre># directs standard output to file</pre>
file	<pre># directs standard output to file; append to existed</pre>
file	# uses file as both standard input and standard output
file	# uses file as both input and output for file descrip
ile	<pre># directs file descriptor n to file</pre>
ile	<pre># takes file descriptor n from file</pre>
file	<pre># directs file n to file; append to already existed :</pre>
	# duplicates standard output to file descriptor n
	<pre># duplicates standard input from file descriptor n</pre>
n	# file n is made to be a copy of the output file desc
n	# file n is made to be a copy of the input file descr
ile	# directs standard output and standard error to file
	# closes the standard input
	# closes the standard output
	# closes the ouput from file descriptor n
-	# closes the input from file descripor n

# VARIABLES

rname=value	<pre># defines a var</pre>
no \$varname	# display varia
port VARNAME=value	# defines an en
<pre>#varname } JNIX command)</pre>	<pre># returns the l # command subst</pre>

cmd1 as standard input to cmd2

append to existed file and standard output out for file descriptor n o already existed file le descriptor n ile descriptor n he output file descriptor he input file descriptor

riable able's value vironment variable

ength of the value of variable itution