

117	clear history	
118	pwd	<i>print working directory</i>
119	cd	<i>change directory</i>
120	ls	<i>list contents of current folder</i>
121	cd Desktop/	
122	cd	
123	pwd	
124	ls	
125	ls -l	<i>long list with more details</i>
126	ls -a	<i>list all files, also hidden ones</i>
127	cd ..	<i>change to parent directory</i>
128	ls	
129	cd benjaminunger/	
130	cd Documents/	
131	mkdir tools_sem	<i>make (a new) directory</i>
132	ls -l tools_sem/	<i>list what is in that directory</i>
133	cd tools_sem/	
134	touch text.txt	<i>renew timestamp of file, or create new file</i>
135	ls	
136	ls -l	
137	touch text.txt	
138	ls -l	
139	echo 'some text'	<i>repeat some text</i>
140	echo 'some text'>text.txt	<i>redirect repeated text into file</i>
141	less text.txt	<i>read only open file</i>
142	cat text.txt	<i>concatenate, here output file contents</i>
143	less text.txt	
144	more text.txt	<i>output file contents</i>
145	echo 'some more text'>file.txt	
146	man cat	<i>open manual page of command</i>
147	cat text.txt file.txt	<i>output concatenated content of two files</i>
148	cat text.txt file.txt >third.txt	<i>redirect concatenated content to file</i>
149	cat third.txt	
150	more text.txt file.txt	<i>more does not concatenate content,</i>
151	more text.txt file.txt	<i>but displays outputs one after another</i>
152	man touch	
153	sort *.txt	<i>output sorted content of all .txt files</i>
154	cat *.txt	
155	ls	
156	sort -w *.txt	<i>sort sorts lines alphabetically</i>
157	sort -ww *.txt	<i>-w is not an option for sort</i>
158	man sort	
159	head -1 *.txt	<i>output first line of all .txt files</i>
160	head -2 *.txt	<i>first two lines</i>
161	head -2 *.txt tail -1	<i>pipe output of first command as input</i>
162	head -2 *.txt tail -3	<i>to second command</i>
163	head -2 *.txt > output	
164	ls	
165	cat output	
166	tail -3 output	<i>output last three lines of file contents</i>
167	mv output output.txt	<i>rename file</i>
168	ls	
169	wc -l *.txt sort head -1	<i>double pipe</i>
170	wc -l *.txt	<i>count lines in all .txt files</i>
171	find . *.txt	
172	find *.txt	<i>finds all .txt files in current directory</i>
173	find t*.txt	<i>finds all .txt files starting with t</i>
174	find . -name t*.txt	
175	find t*.txt wc -l	<i>counts lines of found files, i.e. how many found</i>
176	ls t*.txt	
177	wc -l `find t*.txt`	<i>counts lines in all found files</i>
178	wc -l `find *.txt`	<i>`...` is evaluated first and given as input</i>
179	wc -l < find *.txt	<i>does not work</i>
180	wc -l < `find *.txt`	<i>output of `...` redirected as input to wc</i>
181	grep some `find t*.txt`	<i>find 'some' in all .txt starting with t</i>
182	grep more `find t*.txt`	
183	grep some more `find t*.txt`	<i>does not work</i>

184	grep `some more` `find t*.txt`		<i>does not work</i>
185	grep 'some more' `find t*.txt`		
186	grep 'some more' `find t*.txt`		
187	grep "some more" `find t*.txt`		
188	ps		<i>snapshot list of processes</i>
189	whos		
190	top		<i>interactive list of processes</i>
191	ps a		<i>some complicated BSD style flags</i>
192	ps -a		<i>see man ps for details</i>
193	ps -u		
194	ps u		
195	ps x		
196	ps aux grep firefox		<i>find processes containing firefox</i>
197	top		
200	htop		<i>looks nices, not always installed</i>
201	top		
202	ps aux grep stuck		<i>in ps processes do not have a stuck flag</i>
203	top		
204	top grep stuck		<i>top can not be searched with grep</i>
205	top > processes		<i>top can not be redirected into a file</i>
206	cat processes		
207	ls		
208	sleep 30	Crtl+z	<i>start 30 seconds of nothing, halt process</i>
209	bg		<i>resume halted process in background</i>
210	jobs		<i>show jobs in background</i>
211	sleep 60	Crtl+z	
212	bg		
213	jobs		
214	fg		<i>move last bg process to foreground</i>
215	bg		
216	sleep 50	Crtl+z	
217	jobs		
219	bg		
220	sleep 70 &		<i>& starts a process in the background</i>
221	jobs		
223	sleep 80 &		
224	jobs		
225	fg %1		<i>move specific process to foreground</i>
226	sleep 80 &		
227	sleep 800 &		
228	jobs		
229	fg %1		<i>1 is the number in jobs list, not PID</i>
230	bg		
231	jobs		
232	fg %3		<i>jobs list numbers will be reassigned</i>
233	jobs		<i>once freed for some time</i>
234	fg 58484		<i>only works with job number, not with PID</i>
235	history		<i>shows history of commands</i>
236	jobs		
237	sleep 800 &		
238	jobs		
239	kill %3		<i>terminate job with number 3</i>
240	jobs		
241	kill %2		
242	man nice		<i>run a program with modified scheduling priority</i>
243	cat > new_command		<i>prompts an input line to write into file</i>
244	cat new_command		
245	ls -l new_command		
246	chmod u+x new_command		<i>make file executable for owner/user</i>
247	ls -l new_command		
248	./new_command		<i>run contents of file</i>
249	bash new_command		<i>run file as bash script</i>
250	chmod u-x new_command		
251	ls -l new_command		
252	bash new_command		<i>works also if not executable</i>
253	chmod u+x new_command		
254	chmod 764 new_command		<i>binary code for chmod</i>

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255 ls -l new_command
256 chmod u=rwx new_command
257 ls -l new_command
258 chmod rwxrwxrwx new_command
259 chmod +rwxrwxrwx new_command
260 ls -l new_command
261 sudo chmod +rwxrwxrwx new_command
262 ls -l new_command
263 chmod 777 new_command
264 ls -l new_command
265 for i in *.txt; do wc -l $i; done
266 chmod 744 new_command ls -l new_command
267 for i in *.txt do wc -l $i done
268 for i in *.txt; do wc -l $i; done
269 new_command
270 cd .
271 cd ..
272 cd tools_sem/
273 ./new_command
274 cd
275 cat .bashrc
276 ls
277 cd ~
278 ls -l .bashrc
279 ls -l
280 ls -la
281 cd ..
282 ls -l bashrc
283 ls -l .bashrc
284 find / .bashrc
285 cd /
286 cd \
287 cd ..
296 ls -la
297 cd
298 cat .bash_profile
299 cd ..
300 cat .bash_profile
301 cd
302 alias la=ls -la
303 alias -s la=ls -la
304 man alias
305 alias la='ls -la'
306 la
307 alias
308 cd Documents/tools_sem/
309 cat > bashrc
310 cat bashrc
311 cat > bashrc
312 cat bashrc
313 cat >> bashrc
314 cat bashrc
315 diff text.txt third.txt
316 cat text.txt third.txt
317 cat text.txt output.txt
318 diff text.txt output.txt
319 kompare text.txt output.txt
320 xev
321 (cd ..; ls)
322 history > shell_history

```

does not really the right thing
neither

neither

this gives all permissions to everyone

loops in the shell

does not work

run control file for bash

change to home directory
.bashrc should be in home directory

*backslash holds the line for more input after
linebreak*

.bash_profile was also not there

*aliases can be defined to shorten long commands
if done in .bashrc work in all bash sessions*

> overwrites contents of file

>> appends new lines to file

compare two files

also to compare, not always installed
inspect keycodes of keys on keyboard
lists contents of parent folder without going there