

# linux basic commands

0 **commands** terminal(shell)は命令(command)を受け取って、被演算子(operand)に演算を加える。オプションによってその振る舞いを調整する。

> **ls -lat**  
command com options  
prompt

'-' short options  
'--' long options  
-l : long  
-a : all  
-t : time  
--version

> **ls**  
> **ls -lat**  
total 0  
drwxr-xr-x 5 bob staff 160 11 3 14:46 .semi\_lattice/  
drwxr-xr-x 7 bob staff 224 11 3 14:45 ./  
drwxr-xr-x 2 bob staff 64 11 3 14:45 line\_edit/  
...

> **pwd [.] #print working dir**  
> **pwd**  
/Users/bob/Desktop/lecture\_25f/multi\_scale\_25f/linux\_basic

> **man ls**  
operator operand  
演算子 被演算子

LS(1) General Commands Manual LS(1)  
NAME  
ls - list directory contents  
SYNOPSIS  
ls [-@ABCFGHILOPRSTUWabcdefghijklmnopqrstuvwxyz1%,]  
[--color=when] [-D format] [file ...]  
DESCRIPTION  
For each operand that names a file of a type other than directory, ls displays its name as well as any requested, associated information. For each operand that names a file of type directory, ls displays the names of files contained within that directory, as well as any requested, associated information.

q(quit)で終了

# 1 dir commands

> mkdir hoge

> rmdir hoge

> full\_path, absolute\_path, 絶対パス

▶ readlink -f [linux\\_basic.key.pdf](#)

/Users/bob/Desktop/Lectures/MultiScale/multi\_scale\_25f/w7\_bundle/linux\_basic.key.pdf

▶ realpath [linux\\_basic.key.pdf](#)

/Users/bob/Desktop/Lectures/MultiScale/multi\_scale\_25f/w7\_bundle/linux\_basic.key.pdf

> relative\_path, 相対パス

> ls [.]

> ls ..

#above dir

> tree -L 3

> sudo apt install tree

> cd bin

> cd ..

> cd [~]

#tilde home

> open .

```
multi_scale_25f/
├── bin
│   ├── auto_git
│   ├── linux_bins
│   ├── mk_cli_copilot
│   └── tidy
├── chat_form
├── linux_basic
│   ├── auto_git
│   └── chat_form
├── command
├── dir
├── file
├── line_edit
├── readme.html
├── readme.org
├── references
├── ruby_basic
├── w_commands
└── w1_chunk
```

## 2 file commands

```
> mv A_file B_file
#rename A_file to B_file
> mv A_file B_dir
#move A_file to B_dir
> mv * B_dir
#move *(wild card, all files) to B_dir
```

```
> rm A_file
#remove A_file
> rm -rf B_dir
#remove recursively
and forcibly B_dir
```

```
> cp A_file B_file
#copy A_file to B_file
> cp A_file B_dir
#copy A_file in B_dir
```

### 3 text commands

```
> cat A_file
```

```
#catenate A
```

```
> bat A_file
```

```
> sudo apt install bat
```

```
> head A_file
```

```
> tail A_file
```

```
> wc A_file
```

```
#word count A
```

```
> grep string A_file
```

```
#search string in A
```

```
> diff A_file B_file
```

```
#show diff btw A B
```

## 4 process commands

```
> ps
```

```
#process status
```

```
> fg
```

```
#fore ground
```

```
> bg
```

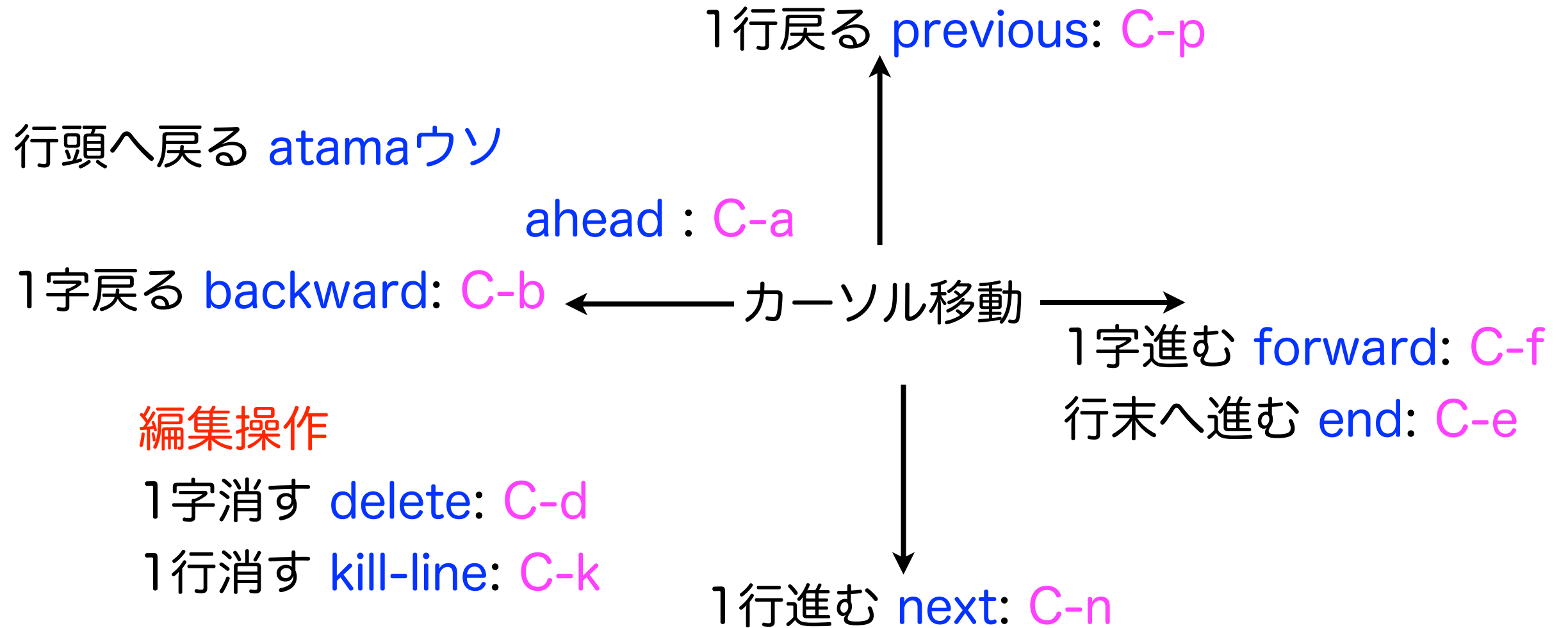
```
#back ground
```

```
> kill -9 pid
```

```
#kill forcibly pid process
```

```
pid : process ID
```

## 5 line edit key bind



```
> my_help 1 kick_off edit
-               c-p(previous)
-  c-a(ahead),  c-b(back),  c-f(forward),  c-e(end)
-               c-n(next)
-  c-d(delete), c-k(kill-line), del
-  c-y(yank, paste)
```

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command prompt

```
> ls -lat
```

command prompt      command      options

'-' short options  
-l : long  
-a : all  
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'--' long options  
--version

```
> ls
```

```
command/  dir/      file/      line_edit/
> ls -lat
total 0
drwxr-xr-x  5 bob  staff  160 11  3 14:46 .semi_lattice/
drwxr-xr-x  7 bob  staff  224 11  3 14:45 ./
drwxr-xr-x  2 bob  staff   64 11  3 14:45 line_edit/
...
```

```
> pwd [.] #print working dir
> pwd
/Users/bob/Desktop/lecture_25f/multi_scale_25f/linux_basic
```

```
> man ls
```

operator operand  
演算子      被演算子

LS(1)      General Commands Manual      LS(1)

NAME  
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ls [-@ABCFGHILOPRSTUWabcfgghiklmnopqrstuvwxy1%,]  
[--color=when] [-D format] [file ...]

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q(quit)で終了

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> full\_path, absolute\_path, 絶対パス

```
> readlink -f linux_basic.key.pdf
/Users/bob/Desktop/Lectures/MultiScale/multi_scale_25f/w7_bundle/linux_basic.key.pdf
> realpath linux_basic.key.pdf
/Users/bob/Desktop/Lectures/MultiScale/multi_scale_25f/w7_bundle/linux_basic.key.pdf
```

> relative\_path, 相対パス

```
> ls [.]
> ls ..
#above dir
```

> tree -L 3

```
> sudo apt install tree
```

```
multi_scale_25f/
├── bin
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│   ├── command
│   ├── dir
│   ├── file
│   ├── line_edit
│   └── readme.html
```

```
> cd bin
> cd ..
> cd [~]
#tilde home
```

> open .

## 5 line edit key bind

1行戻る previous: C-p

行頭へ戻る atamaウソ

ahead : C-a

1字戻る backward: C-b

カーソル移動

1字進む forward: C-f

行末へ進む end: C-e

編集操作

1字消す delete: C-d

1行消す kill-line: C-k

1行進む next: C-n

## linux basics

basic commands

bob 2025/11/3

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> head A_file
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> wc A_file
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> diff A_file B_file
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> ps
#process status
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> fg
#fore ground
> bg
#back ground
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> kill -9 pid
#kill forcibly pid process
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pid : process ID

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- c-y(yank, paste)