

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
```

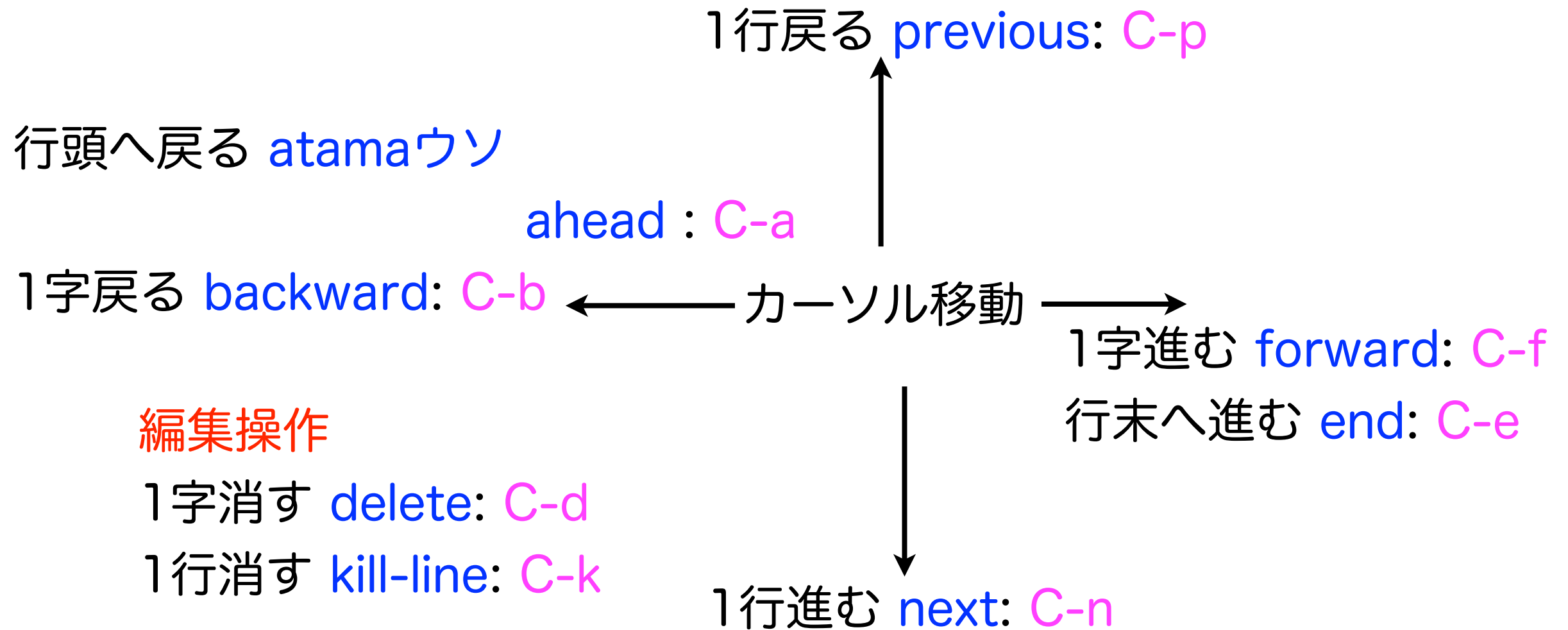
```
#back ground
```

```
> 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

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command prompt command options

'-' short options
-l : long
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'--' long options
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```
> ls
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```
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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
```

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

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```
> readlink -f linux_basic.key.pdf
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> 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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│   └── chat_form
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├── linux_basic
│   ├── 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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#process status
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```
> fg
#fore ground
> bg
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> kill -9 pid
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pid : process ID

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- c-a(ahead), c-b(back), c-f(forward)
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