

# **linux basic commands**

**bob 2025/11/11**

# 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  
-l : long  
-a : all  
-t : time  
  
'--' long options  
--version
```

> 1s

```
> 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

**ls** - list directory contents

## SYNOPSIS

```
ls [ -@ABCDEFGHIOPRSTUWabcdefghijklmnopqrstuvwxyz1%, ]  
    [--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`

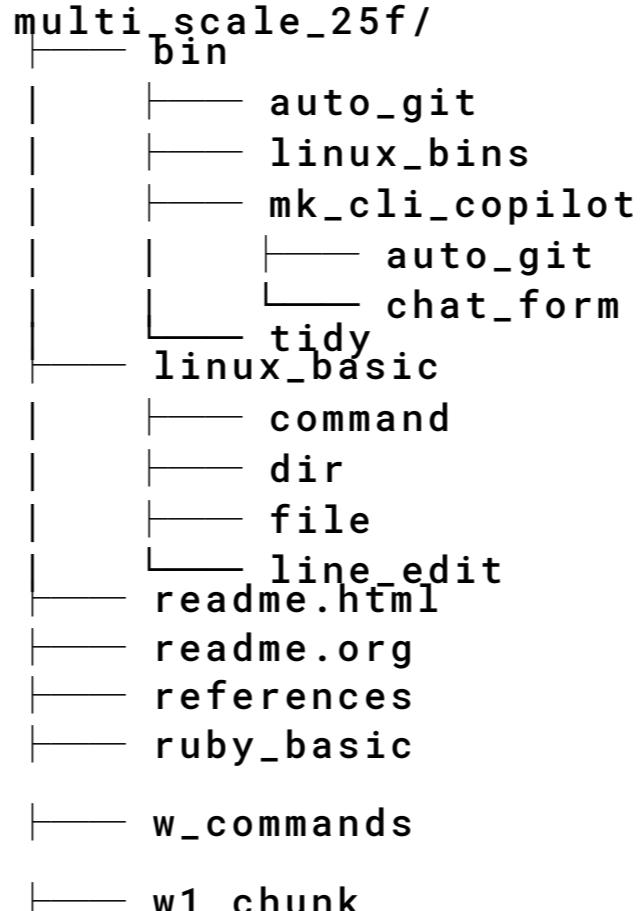
> `ls [.]`

> `ls ..`

#above dir

> `tree -L 3`

> `sudo apt install tree`



> `open .`

## 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
```

```
> 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
```

```
> bat A_file  
> sudo apt install bat
```

## 4 process commands

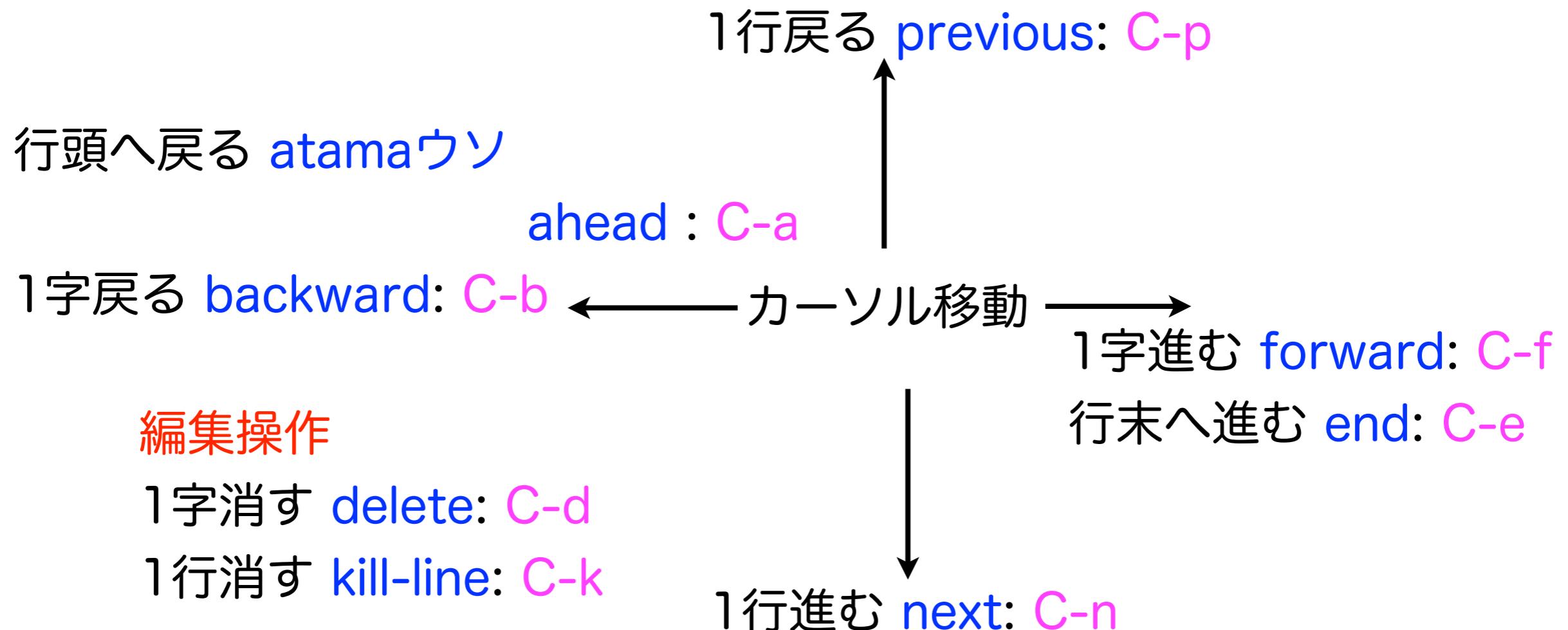
```
> ps  
#process status
```

```
> 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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      short      long
options      options
-l : long   --version
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LS(1)          General Commands Manual       LS(1)
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operator operand 演算子 被演算子
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> 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
> cd bin
> cd ..
> cd [~]
#tilde home
> open .
```



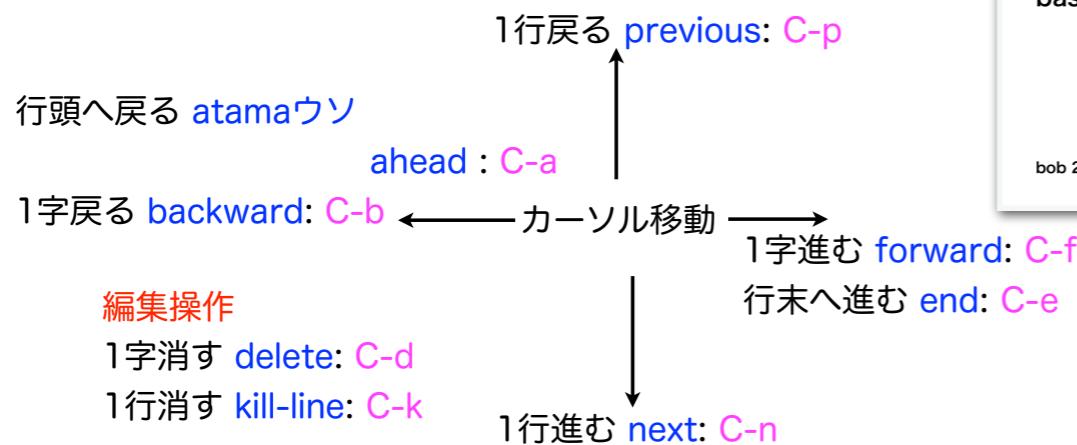
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## linux basics

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> cat A_file
#catenate A           > bat A_file
                      > sudo apt install bat

> head A_file
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> wc A_file
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> diff A_file B_file
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